

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: P151341

Luminaire Tested: **TMU-E02-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P151341  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-E02-LED-E-U-SL3-7050  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (42) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6230.8 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

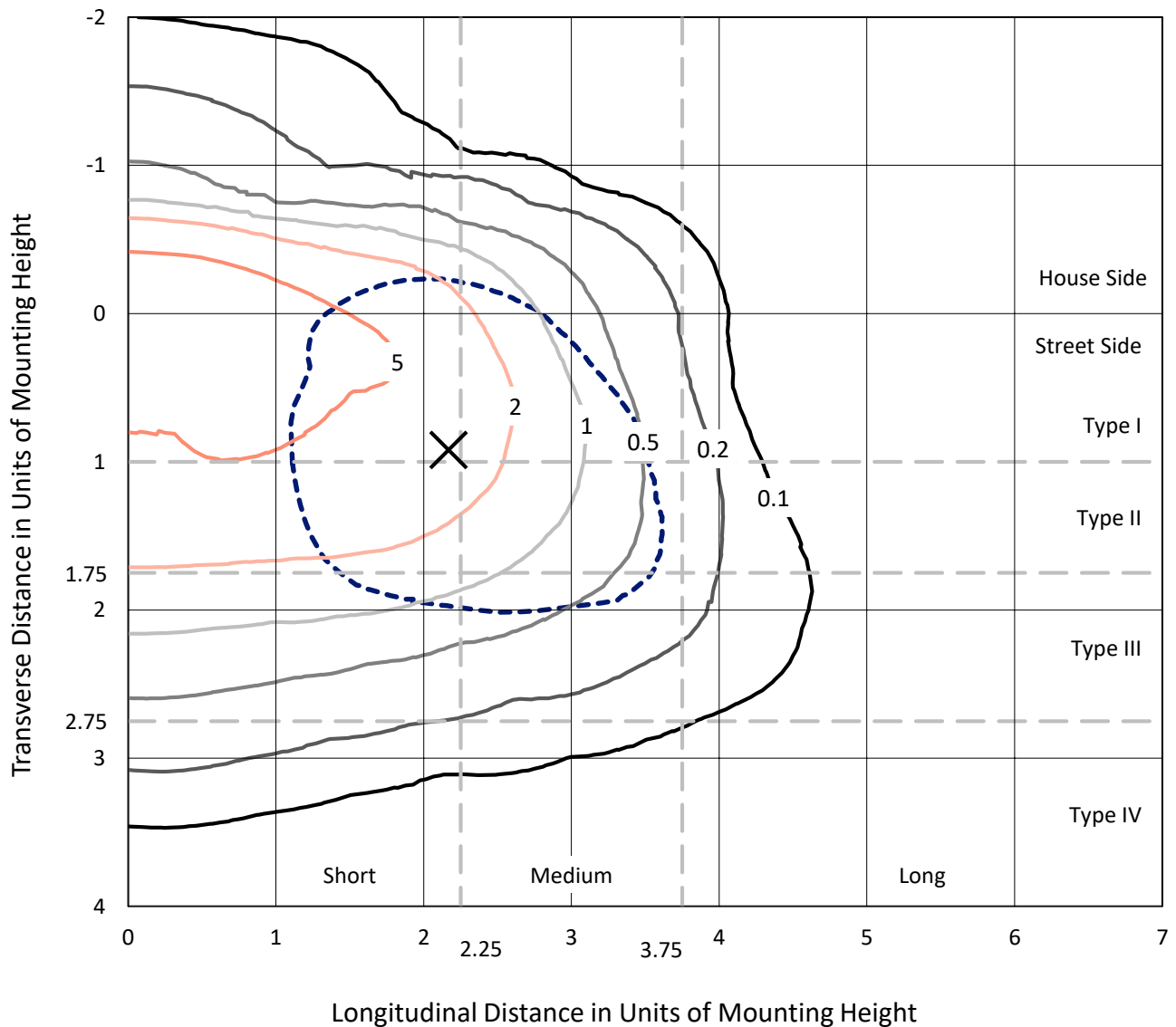
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

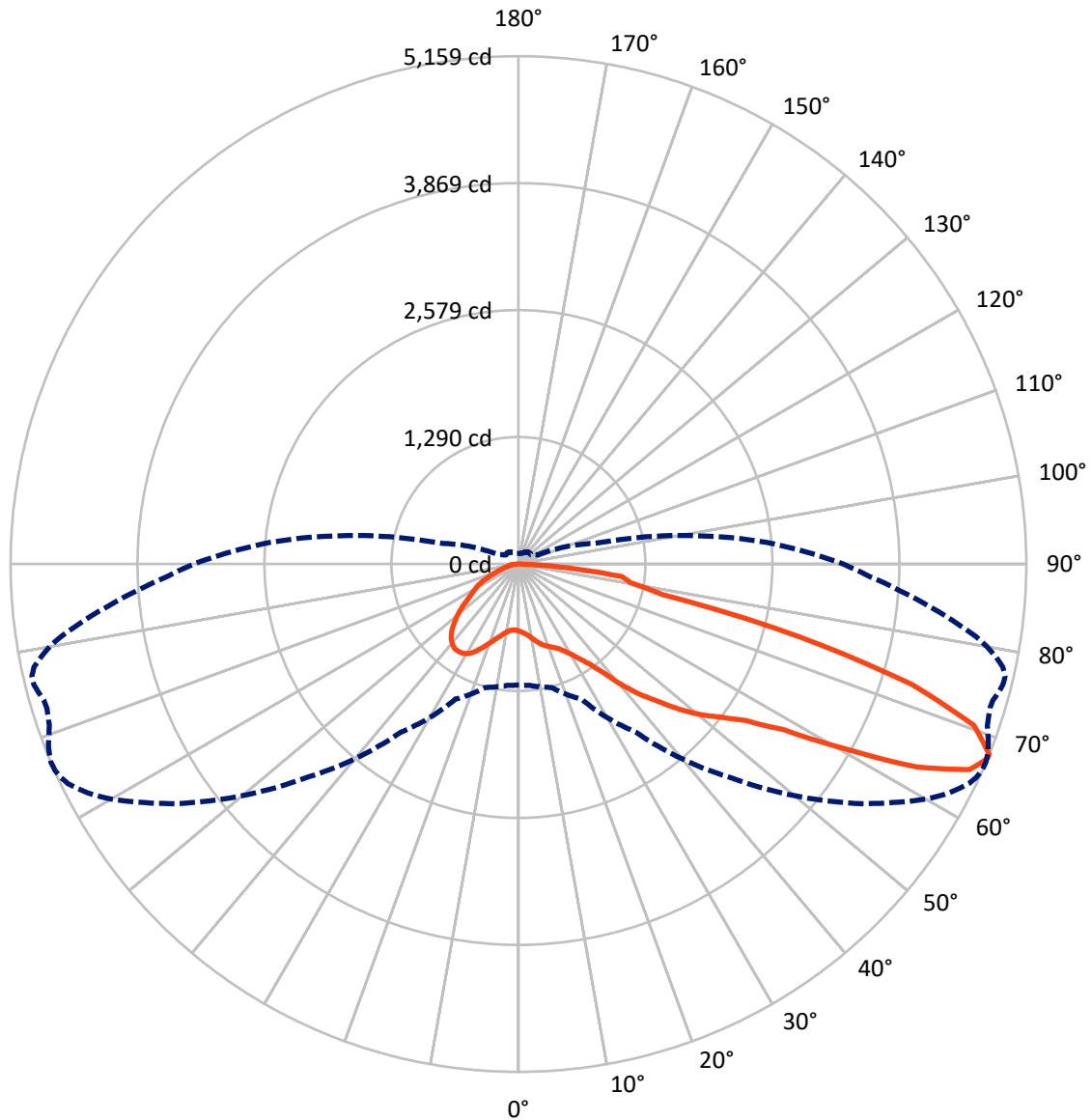
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1437.9	0.0	1437.9
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	4793.0	0.0	4793.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	6230.8	0.0	6230.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	1.1
10°-20°	232.4	3.7
20°-30°	410.3	6.6
30°-40°	588.9	9.5
40°-50°	894.5	14.4
50°-60°	1316.9	21.1
60°-70°	1750.2	28.1
70°-80°	856.2	13.7
80°-90°	113.7	1.8
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°	6230.8	100.0
0°-180°	6230.8	100.0



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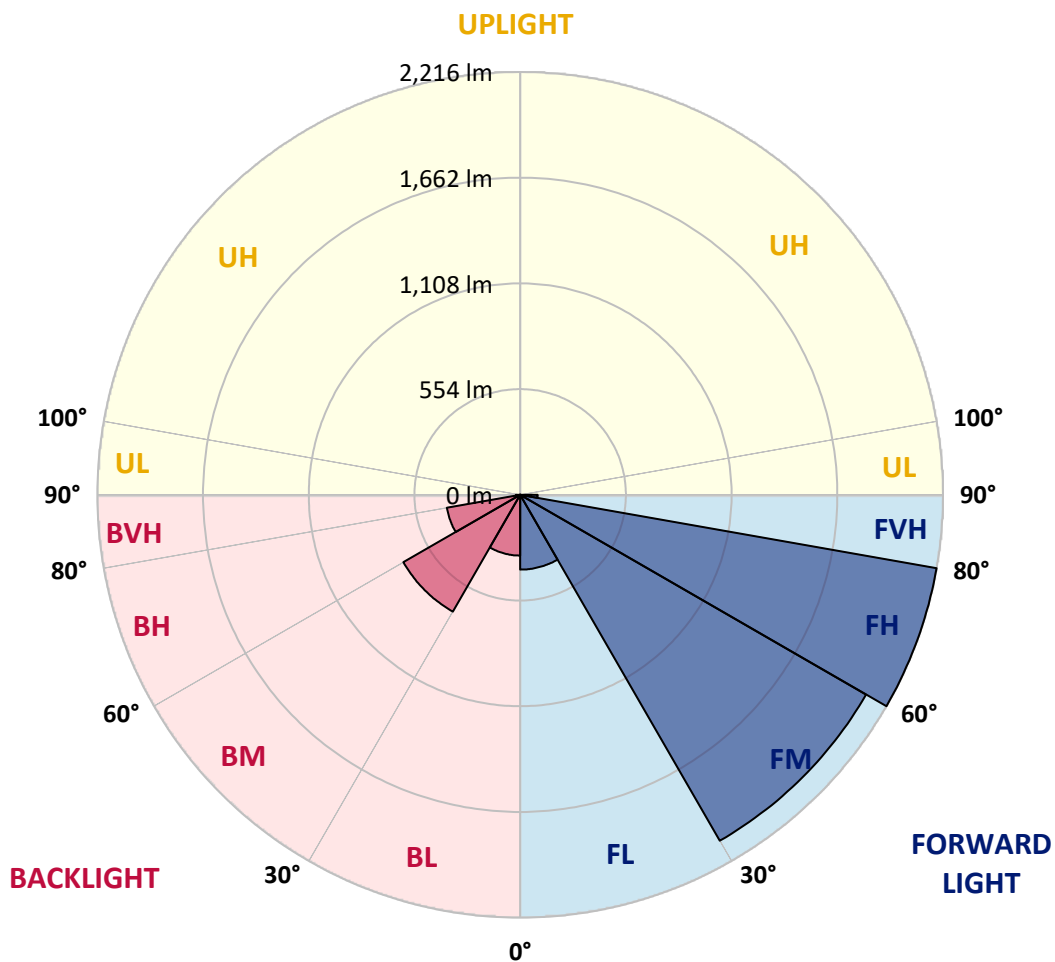
CATALOG NUMBER: TMU-E02-LED-E-U-SL3-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.0	6.3			
FM	(30°-60°)	2093.4	33.6			
FH	(60°-80°)	2216.3	35.6			G2/5000
FVH	(80°-90°)	91.3	1.5			G1/100
BL	(0°-30°)	318.4	5.1	B1/500		
BM	(30°-60°)	706.9	11.3	B1/1000		
BH	(60°-80°)	390.1	6.3	B1/500		G1/500
BVH	(80°-90°)	22.4	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	712.8	713.5	712.1	711.4	707.3	703.2	700.5	697.1	697.1	697.1	695.7
5°	753.2	750.4	752.5	747.7	739.5	732.0	724.4	718.3	716.9	716.9	714.2
7.5°	801.7	798.3	796.9	790.1	777.8	766.8	751.8	745.6	742.2	740.8	739.5
10°	860.6	860.6	851.7	840.0	823.6	804.5	788.0	777.1	776.4	776.4	770.3
12.5°	920.8	922.1	910.5	898.9	872.2	846.9	827.7	815.4	814.7	812.0	808.6
15°	976.2	972.7	965.2	948.1	918.7	888.6	864.7	852.4	849.6	846.9	844.8
17.5°	1022.0	1018.6	1009.0	987.1	956.3	920.8	891.3	878.3	877.0	875.6	872.9
20°	1050.7	1048.0	1034.3	1009.0	976.9	940.6	909.1	900.2	897.5	897.5	896.1
22.5°	1067.1	1063.0	1043.2	1009.7	978.2	951.5	925.5	920.1	918.0	918.7	918.7
25°	1075.4	1071.9	1043.9	996.0	965.9	958.4	947.4	944.0	944.7	945.4	946.8
27.5°	1076.7	1071.9	1039.1	978.2	950.2	971.4	978.9	984.4	984.4	987.1	991.9
30°	1066.5	1061.0	1029.5	964.5	943.3	997.4	1027.5	1041.8	1047.3	1045.9	1056.9
32.5°	1048.7	1045.3	1019.9	964.5	962.5	1048.7	1102.0	1122.6	1125.3	1126.7	1139.0
35°	1042.5	1041.8	1030.9	997.4	1022.0	1139.0	1220.4	1236.1	1239.5	1239.5	1248.4
37.5°	1041.2	1044.6	1056.9	1058.9	1126.7	1273.1	1379.8	1403.7	1403.7	1410.6	1410.6
40°	1041.2	1048.7	1095.2	1150.6	1254.6	1447.5	1595.3	1622.6	1622.6	1630.1	1626.0
42.5°	1081.5	1092.5	1169.1	1274.4	1416.0	1627.4	1797.1	1827.8	1829.9	1827.8	1834.0
45°	1160.9	1170.4	1263.5	1414.7	1582.3	1820.3	1990.0	2026.9	2019.4	2024.2	2026.2
47.5°	1266.2	1281.3	1387.3	1567.9	1744.4	1998.9	2206.1	2239.6	2236.9	2239.0	2230.1
50°	1378.4	1394.1	1512.5	1719.8	1905.8	2142.5	2379.9	2429.8	2425.0	2428.4	2433.2
52.5°	1477.6	1487.2	1601.4	1834.0	2028.3	2276.6	2513.3	2575.5	2586.5	2587.8	2591.3
55°	1536.4	1548.1	1652.7	1890.8	2117.2	2407.9	2665.8	2760.2	2781.4	2786.9	2802.0
57.5°	1556.9	1569.3	1664.3	1899.0	2165.8	2531.1	2878.6	3044.8	3062.6	3092.0	3139.9
60°	1556.3	1569.3	1652.0	1880.5	2215.0	2683.6	3209.7	3488.1	3578.4	3608.5	3676.9
62.5°	1492.6	1507.7	1591.8	1824.4	2278.0	2878.6	3702.2	4130.4	4246.7	4301.4	4375.3
65°	1353.1	1364.0	1442.7	1682.1	2260.2	3070.8	4114.0	4648.3	4754.3	4834.3	4966.4
67°	1229.3	1236.1	1297.7	1513.8	2086.4	3077.6	4244.0	4776.9	4869.2	4954.0	5090.2
67.5°	1197.8	1212.2	1260.1	1462.5	2021.4	3038.6	4235.1	4757.0	4851.4	4939.7	5083.3
70°	974.8	995.3	1019.3	1155.4	1589.1	2556.4	3921.1	4413.6	4496.4	4578.5	4778.9
72.5°	601.3	638.2	643.0	729.2	1034.3	1767.0	3172.7	3722.0	3784.3	3843.1	4048.3
75°	354.3	359.8	376.9	446.7	606.8	1056.2	2128.8	2765.0	2822.5	2851.2	3012.0
77.5°	197.7	203.2	217.5	277.7	466.5	711.4	1239.5	1624.7	1659.6	1695.8	1669.8
80°	82.1	89.6	96.5	112.2	218.2	561.6	852.4	1032.9	1055.5	1076.7	1103.4
82.5°	39.7	42.4	52.0	59.5	79.4	230.5	668.3	895.4	922.1	952.9	1015.2
85°	18.5	20.5	28.7	34.2	38.3	58.1	223.7	435.8	472.7	479.5	491.8
87.5°	1.4	1.4	3.4	4.8	6.8	7.5	23.3	32.8	36.9	33.5	42.4
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	695.0	694.3	693.0	693.0	692.3	692.3	692.3	690.9	690.9	690.9	690.2
5°	713.5	712.8	710.7	710.7	709.4	709.4	707.3	706.6	705.3	705.3	704.6
7.5°	737.4	736.7	734.0	734.0	732.0	731.3	729.9	727.9	727.9	726.5	725.1
10°	770.3	768.2	767.5	764.1	764.8	763.4	762.1	760.0	758.6	757.3	755.9
12.5°	807.2	807.2	803.8	801.7	803.1	801.7	799.0	798.3	796.3	796.3	794.2
15°	842.1	842.1	840.7	838.0	838.7	836.6	835.9	834.6	831.8	832.5	831.8
17.5°	872.2	872.2	870.1	868.8	868.8	866.7	867.4	866.0	864.7	864.0	861.9
20°	896.1	896.1	894.8	893.4	894.1	894.1	892.0	892.0	892.0	890.7	890.7
22.5°	919.4	920.1	920.1	920.1	920.8	921.4	920.8	922.1	921.4	922.8	922.8
25°	950.2	952.2	953.6	953.6	957.0	957.7	958.4	960.4	960.4	962.5	963.2
27.5°	996.0	997.4	1002.8	1004.2	1004.9	1010.4	1011.1	1013.8	1016.5	1017.2	1017.9
30°	1058.9	1062.4	1066.5	1069.2	1069.2	1076.0	1078.8	1077.4	1084.9	1087.0	1089.7
32.5°	1143.1	1145.8	1149.9	1152.7	1155.4	1158.8	1159.5	1162.9	1169.1	1174.5	1171.1
35°	1249.1	1256.0	1249.1	1256.6	1258.7	1263.5	1262.1	1266.2	1269.0	1271.0	1270.3
37.5°	1403.0	1399.6	1398.2	1395.5	1390.7	1407.1	1398.9	1398.2	1394.1	1405.8	1398.2
40°	1605.5	1607.6	1609.6	1598.7	1592.5	1592.5	1590.5	1582.9	1579.5	1589.8	1588.4
42.5°	1816.9	1818.9	1809.4	1802.5	1786.8	1784.7	1775.2	1773.1	1769.7	1775.2	1769.7
45°	2009.1	2010.5	1989.3	1992.7	1980.4	1982.4	1967.4	1973.5	1965.3	1970.8	1981.1
47.5°	2223.9	2226.6	2208.2	2215.7	2203.4	2195.9	2195.2	2199.3	2190.4	2195.9	2198.6
50°	2418.9	2415.5	2405.9	2407.9	2402.5	2403.8	2395.6	2403.1	2392.9	2403.8	2402.5
52.5°	2591.9	2587.8	2585.8	2592.6	2587.8	2587.8	2583.0	2586.5	2587.8	2604.3	2607.7
55°	2802.0	2805.4	2808.8	2821.1	2826.6	2817.7	2826.6	2843.7	2844.4	2883.4	2904.6
57.5°	3139.2	3163.1	3175.5	3183.0	3215.1	3211.7	3232.2	3273.3	3277.4	3367.7	3420.4
60°	3727.5	3769.9	3810.3	3788.4	3853.4	3873.2	3885.5	3962.1	3986.1	4071.6	4117.4
62.5°	4470.4	4475.2	4538.1	4518.3	4555.2	4546.3	4561.4	4596.3	4627.7	4698.2	4741.3
65°	4988.9	5011.5	5036.1	5010.8	5010.1	4980.0	4960.9	4960.2	4979.3	4994.4	5042.3
67°	5129.8	5152.4	5158.6	5140.1	5113.4	5075.1	5039.5	5021.1	5008.8	5015.6	5045.7
67.5°	5128.5	5149.7	5157.2	5139.4	5102.5	5070.3	5032.7	5011.5	4995.1	4998.5	5023.8
70°	4837.1	4882.9	4907.5	4913.0	4908.2	4852.1	4820.0	4800.8	4787.1	4753.6	4751.6
72.5°	4098.3	4153.7	4172.8	4203.6	4217.3	4134.5	4099.6	4120.8	4073.0	3966.9	3971.7
75°	3009.2	3013.3	2949.0	2936.7	2890.9	2703.4	2647.4	2596.0	2514.0	2386.0	2265.6
77.5°	1568.6	1567.9	1494.0	1456.4	1401.7	1288.8	1283.3	1191.7	1127.3	1010.4	968.0
80°	1114.4	1132.1	1156.8	1169.1	1149.9	1106.1	1045.9	981.0	906.4	833.2	745.6
82.5°	1036.4	1047.3	1060.3	1012.4	985.7	924.2	878.3	783.9	731.3	647.8	559.6
85°	504.2	537.7	511.7	481.6	471.3	368.7	356.4	297.6	270.2	222.3	207.3
87.5°	32.2	39.7	35.6	32.2	28.0	15.7	21.2	15.0	15.7	11.6	10.3
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	690.2	689.5	688.9	688.2	687.5	687.5	686.8	686.1	685.4	684.1	684.1
5°	703.2	703.2	702.5	701.2	701.2	699.8	697.8	697.1	697.1	695.7	694.3
7.5°	724.4	723.7	722.4	721.7	720.3	719.0	717.6	716.2	715.5	713.5	712.8
10°	756.6	755.2	751.8	750.4	749.7	748.4	747.0	745.6	743.6	742.2	741.5
12.5°	792.8	792.2	789.4	790.8	787.4	786.0	784.6	781.2	782.6	779.8	778.5
15°	829.1	829.8	828.4	828.4	825.7	823.6	822.3	819.5	818.8	817.5	816.1
17.5°	861.2	862.6	860.6	859.2	857.8	856.5	853.7	851.0	851.0	848.2	846.9
20°	890.7	892.0	891.3	890.0	887.9	887.2	885.9	883.8	883.8	882.5	880.4
22.5°	924.2	924.9	924.9	924.2	922.1	922.8	921.4	919.4	920.1	917.3	917.3
25°	964.5	965.9	967.3	968.0	966.6	967.3	965.9	964.5	963.9	964.5	963.9
27.5°	1019.9	1021.3	1025.4	1022.0	1025.4	1026.1	1024.1	1021.3	1023.4	1026.8	1024.7
30°	1093.1	1091.8	1097.2	1097.9	1097.2	1097.9	1096.6	1094.5	1095.9	1102.0	1098.6
32.5°	1175.2	1178.0	1179.3	1180.7	1182.8	1185.5	1183.4	1181.4	1184.8	1182.8	1187.5
35°	1274.4	1280.6	1282.6	1280.6	1281.9	1286.7	1286.1	1286.7	1293.6	1286.7	1295.6
37.5°	1399.6	1405.8	1410.6	1407.8	1411.2	1411.2	1416.7	1431.8	1422.2	1434.5	1444.1
40°	1581.6	1591.1	1591.8	1591.1	1594.6	1598.7	1604.1	1620.6	1609.6	1622.6	1631.5
42.5°	1769.0	1780.6	1784.7	1777.9	1785.4	1794.3	1795.0	1809.4	1810.0	1812.1	1816.9
45°	1980.4	1990.6	1998.9	1995.4	1996.1	2007.7	2005.0	2018.7	2008.4	2008.4	2011.2
47.5°	2205.4	2215.0	2220.5	2226.0	2219.1	2229.4	2234.2	2231.4	2219.1	2216.4	2200.0
50°	2410.7	2418.9	2427.1	2442.1	2441.4	2446.2	2449.7	2437.3	2434.6	2419.6	2401.1
52.5°	2628.2	2649.4	2667.9	2699.3	2704.1	2720.5	2714.4	2693.9	2690.4	2665.8	2641.2
55°	2931.2	2992.1	3018.8	3067.4	3100.2	3099.5	3085.8	3082.4	3056.4	3007.2	2977.8
57.5°	3458.7	3553.7	3599.6	3662.5	3672.8	3666.6	3648.8	3617.4	3572.2	3489.4	3436.1
60°	4220.0	4278.9	4332.2	4347.3	4354.8	4343.2	4280.9	4211.1	4122.9	4008.7	3913.6
62.5°	4795.3	4855.5	4895.2	4889.1	4841.8	4782.3	4691.4	4574.4	4450.6	4322.6	4180.4
65°	5088.1	5113.4	5107.3	5059.4	4978.7	4874.7	4742.0	4597.6	4451.9	4300.7	4153.0
67°	5072.4	5073.1	5031.3	4938.3	4835.0	4704.4	4542.2	4384.9	4213.9	4055.2	3879.4
67.5°	5044.3	5041.6	4983.5	4881.5	4770.0	4635.3	4467.0	4304.2	4127.0	3966.9	3785.0
70°	4726.9	4688.6	4557.3	4394.5	4239.2	4057.2	3880.7	3694.0	3494.2	3356.7	3147.4
72.5°	3884.2	3754.9	3528.4	3358.1	3191.9	2953.8	2843.7	2611.8	2471.5	2384.0	2226.0
75°	2249.2	2141.1	1966.0	1806.6	1725.9	1585.0	1518.0	1347.6	1312.0	1310.7	1256.0
77.5°	858.5	749.1	636.2	512.4	435.8	346.1	305.1	272.9	248.3	265.4	240.8
80°	643.7	529.5	413.9	301.0	214.8	158.7	136.1	125.9	119.7	114.9	111.5
82.5°	479.5	378.3	293.5	191.5	134.1	101.2	87.6	82.1	79.4	74.6	70.5
85°	162.1	130.0	102.6	71.1	56.1	45.8	42.4	41.0	39.0	35.6	33.5
87.5°	8.9	8.2	8.9	6.8	8.2	6.8	7.5	7.5	7.5	6.8	6.8
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):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	683.4	683.4	683.4	682.0	680.0	675.9	671.8	668.3	664.9	662.9	661.5
5°	693.6	692.3	691.6	690.9	686.1	677.9	670.4	663.5	656.7	651.2	649.2
7.5°	712.1	709.4	708.7	706.6	700.5	688.2	677.2	666.3	656.7	649.2	645.8
10°	740.2	740.2	736.1	733.3	726.5	710.1	694.3	680.0	667.0	658.8	656.7
12.5°	775.7	775.7	772.3	770.3	762.1	740.8	721.7	704.6	692.3	684.1	683.4
15°	812.7	812.0	809.3	806.5	797.6	775.1	755.9	740.8	730.6	721.0	718.3
17.5°	845.5	845.5	842.1	839.4	830.5	811.3	794.2	783.3	771.6	751.8	736.7
20°	878.3	879.0	876.3	873.6	866.0	849.6	842.1	831.1	805.2	762.1	726.5
22.5°	914.6	917.3	913.9	911.2	905.0	898.2	895.4	869.5	814.7	745.6	693.6
25°	961.1	965.9	961.8	960.4	957.0	959.1	950.9	890.7	801.0	710.1	645.1
27.5°	1024.7	1024.7	1025.4	1025.4	1024.1	1031.6	1001.5	891.3	770.9	664.2	586.9
30°	1099.3	1103.4	1102.0	1102.0	1107.5	1112.3	1029.5	876.3	732.6	607.5	515.8
32.5°	1188.9	1192.3	1193.7	1187.5	1209.4	1184.8	1039.8	848.9	685.4	537.0	431.0
35°	1297.0	1301.8	1305.2	1305.9	1320.3	1247.7	1034.3	808.6	617.7	448.8	337.9
37.5°	1437.9	1447.5	1455.0	1458.4	1459.1	1301.1	1019.3	755.2	529.5	350.2	251.7
40°	1625.4	1635.6	1633.6	1640.4	1601.4	1332.6	985.1	677.9	420.0	257.2	194.3
42.5°	1805.9	1807.3	1810.0	1803.9	1724.5	1349.0	937.2	583.5	314.7	192.2	166.2
45°	2007.7	1996.1	1983.1	1973.5	1838.1	1355.1	871.5	468.6	222.3	161.4	153.9
47.5°	2197.2	2181.5	2154.8	2127.5	1939.3	1345.6	787.4	350.9	169.0	147.8	145.7
50°	2383.3	2353.9	2316.3	2284.8	2036.5	1331.2	694.3	253.1	147.8	140.9	138.9
52.5°	2613.8	2564.6	2515.3	2474.3	2163.0	1308.6	596.5	192.2	138.9	135.4	132.7
55°	2929.9	2861.5	2782.1	2724.7	2334.7	1274.4	493.9	162.8	134.8	132.0	127.9
57.5°	3367.7	3265.1	3175.5	3081.7	2569.4	1239.5	405.7	151.2	134.1	130.0	124.5
60°	3815.1	3691.9	3577.7	3443.6	2808.8	1204.6	344.1	149.8	136.1	130.0	121.8
62.5°	4047.6	3920.4	3782.9	3646.8	2912.1	1122.6	301.7	151.9	140.9	132.0	121.8
65°	3994.3	3839.0	3699.5	3560.6	2792.4	967.3	255.2	154.6	150.5	140.2	123.8
67°	3726.1	3564.0	3429.9	3297.2	2525.6	809.9	218.9	157.3	160.8	149.8	127.9
67.5°	3631.7	3469.6	3337.6	3208.3	2446.9	777.1	210.0	158.7	162.8	152.5	129.3
70°	3011.3	2892.2	2752.0	2652.1	1981.1	575.3	172.4	161.4	175.1	168.3	135.4
72.5°	2167.1	2053.6	1948.2	1892.8	1459.1	402.2	145.0	158.7	182.6	177.2	138.2
75°	1152.0	1145.1	1106.8	1134.2	903.0	262.7	127.9	148.4	174.4	162.1	128.6
77.5°	232.6	239.4	281.2	277.0	291.4	146.4	109.5	127.2	134.8	119.0	104.7
80°	108.1	106.0	104.0	105.3	103.3	93.7	88.9	99.9	93.7	76.6	69.8
82.5°	67.0	65.7	63.6	62.9	69.8	74.6	78.0	78.7	62.3	53.4	51.3
85°	32.2	32.2	31.5	32.8	41.0	60.9	65.7	58.1	41.7	38.3	36.3
87.5°	6.2	6.2	6.8	6.2	8.2	14.4	16.4	19.2	15.7	16.4	18.5
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):**

	165°	175°	180°
0°	680.6	680.6	680.6
2.5°	660.1	658.8	658.8
5°	646.4	645.8	645.8
7.5°	643.0	643.7	643.0
10°	656.0	655.3	658.1
12.5°	684.8	686.8	686.1
15°	714.9	716.2	716.2
17.5°	723.7	719.0	718.3
20°	700.5	691.6	689.5
22.5°	656.7	640.3	641.0
25°	601.3	581.5	582.8
27.5°	537.0	515.8	515.1
30°	459.7	436.4	424.8
32.5°	366.7	338.6	338.6
35°	275.7	253.1	244.9
37.5°	209.3	196.3	192.2
40°	174.4	168.3	166.9
42.5°	158.7	156.7	156.0
45°	150.5	149.1	148.4
47.5°	143.0	142.3	141.6
50°	137.5	136.8	136.1
52.5°	132.7	131.3	130.7
55°	125.9	125.9	125.9
57.5°	121.8	121.8	121.1
60°	117.7	117.0	117.0
62.5°	114.2	112.9	113.6
65°	112.2	110.1	110.1
67°	110.8	106.7	106.7
67.5°	110.8	105.3	105.3
70°	108.8	99.9	98.5
72.5°	106.7	93.7	91.7
75°	101.2	88.9	86.9
77.5°	86.9	79.4	78.0
80°	67.0	58.1	59.5
82.5°	48.6	41.7	41.0
85°	34.9	30.1	30.1
87.5°	18.5	15.7	16.4
90°	0.0	0.0	0.0

(END OF REPORT)