

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934900

Luminaire Tested: SQ4-FA-075U-100D-B35-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934900
REPORT IS A COMBINATION OF REPORTS P933716 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-B35-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

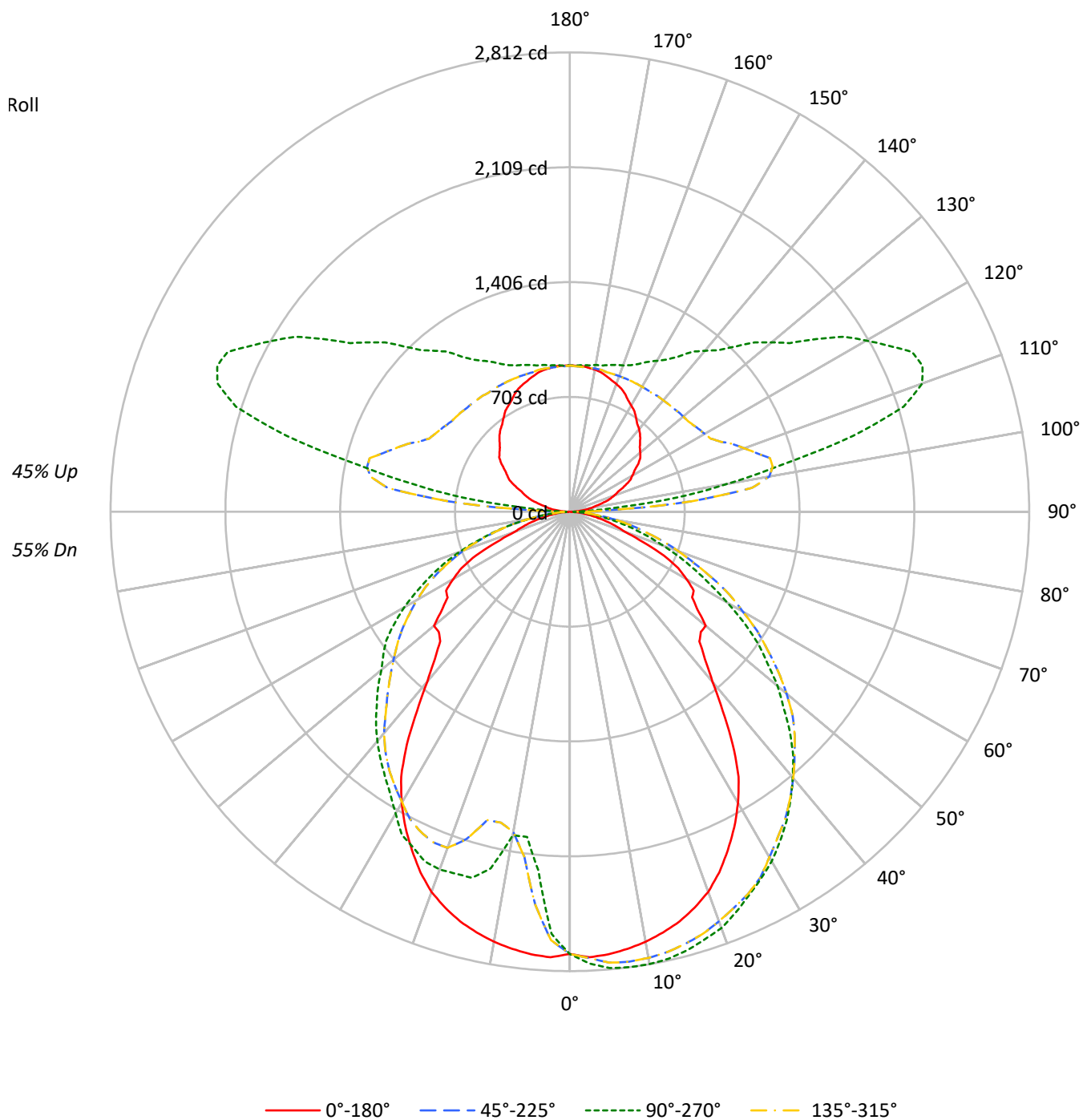
Lumens per Lamp: N/A
Luminaire Lumens: 12823.8 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 102.4
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: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12557	12557	12557	12557
5°	12651	12676	12651	9967
10°	12566	12486	12566	8927
15°	12430	12216	12430	10201
20°	12170	11895	12170	10222
25°	11637	11428	11637	10005
30°	10950	11040	10950	9530
35°	9762	10549	9762	9007
40°	8134	9971	8134	8612
45°	7268	9295	7268	8158
50°	7722	8488	7722	7702
55°	7265	7619	7265	7439
60°	7489	6471	7489	6813
65°	6789	5349	6789	5979
70°	4700	4263	4700	5012
75°	4122	3151	4122	3773
80°	3321	2083	3321	2269
85°	1910	1103	1910	937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11139 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	1.9
10°-20°	693.7	5.4
20°-30°	1072.3	8.4
30°-40°	1280.1	10.0
40°-50°	1287.6	10.0
50°-60°	1120.3	8.7
60°-70°	794.3	6.2
70°-80°	420.3	3.3
80°-90°	108.1	0.8
90°-100°	436.4	3.4
100°-110°	1147.2	8.9
110°-120°	1189.5	9.3
120°-130°	954.1	7.4
130°-140°	748.6	5.8
140°-150°	574.6	4.5
150°-160°	413.8	3.2
160°-170°	253.2	2.0
170°-180°	85.5	0.7
0°-30°	2010.3	15.7
0°-40°	3290.3	25.7
0°-60°	5698.2	44.4
0°-90°	7020.9	54.7
90°-120°	2773.0	21.6
90°-150°	5050.3	39.4
90°-180°	5803.0	45.3
0°-180°	12823.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2706	2706	2706	2706	2706	
5°	2719	2804	2719	2205	2719	258
15°	2596	2778	2596	2320	2596	731
25°	2286	2591	2286	2269	2286	1050
35°	1739	2312	1739	1974	1739	1076
45°	1122	1905	1122	1672	1122	898
55°	914	1406	914	1372	914	840
65°	635	848	635	947	635	607
75°	241	402	241	481	241	253
85°	41	102	41	87	41	55
90°	6	23	6	23	6	7
95°	58	264	58	264	58	64
105°	207	1796	207	1796	207	219
115°	367	2313	367	2313	367	363
125°	511	1842	511	1842	511	453
135°	608	1429	608	1429	608	471
145°	706	1160	706	1160	706	442
155°	798	998	798	998	798	367
165°	861	930	861	930	861	243
175°	895	901	895	901	895	85
180°	895	895	895	895	895	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2729.6	2729.6	2744.9	2750.0	2750.0	2742.4	2734.7	2742.4	2765.4	2773.1	2770.6
5°	2719.3	2739.8	2767.9	2773.1	2778.2	2775.6	2770.6	2775.6	2801.3	2806.4	2808.9
7.5°	2698.9	2737.2	2773.1	2780.7	2788.5	2780.7	2778.2	2783.4	2808.9	2814.1	2814.1
10°	2673.2	2727.0	2767.9	2773.1	2780.7	2773.1	2773.1	2783.4	2808.9	2814.1	2816.6
12.5°	2637.3	2711.6	2750.0	2755.2	2765.4	2762.8	2760.3	2770.6	2796.1	2801.3	2801.3
15°	2596.4	2683.5	2719.3	2724.4	2742.4	2737.2	2737.2	2747.5	2775.6	2783.4	2780.7
17.5°	2540.0	2647.6	2688.6	2696.2	2709.0	2706.5	2709.0	2719.3	2744.9	2750.0	2752.6
20°	2476.1	2599.0	2647.6	2655.3	2668.1	2668.1	2668.1	2680.9	2706.5	2716.8	2716.8
22.5°	2389.0	2547.8	2599.0	2604.1	2619.4	2619.4	2624.5	2642.5	2665.5	2668.1	2668.1
25°	2286.5	2491.4	2534.9	2550.3	2565.7	2573.4	2581.0	2591.3	2599.0	2596.4	2599.0
27.5°	2179.0	2419.7	2476.1	2486.3	2506.8	2514.5	2524.7	2527.2	2529.9	2537.5	2532.4
30°	2058.6	2319.9	2404.4	2414.7	2447.9	2453.0	2442.8	2447.9	2460.7	2465.8	2471.0
32.5°	1923.0	2171.3	2330.2	2353.1	2383.8	2368.5	2365.9	2373.7	2394.1	2394.1	2399.2
35°	1738.6	2056.1	2261.0	2281.4	2304.5	2286.5	2296.8	2299.3	2312.2	2319.9	2317.3
37.5°	1536.3	1956.2	2189.3	2204.7	2222.6	2199.5	2214.8	2222.6	2232.8	2227.7	2227.7
40°	1357.1	1800.1	2104.8	2115.0	2130.3	2112.4	2127.8	2133.0	2138.1	2133.0	2130.3
42.5°	1223.9	1628.5	2015.1	2027.9	2017.7	2030.5	2035.7	2045.8	2038.2	2027.9	2027.9
45°	1121.5	1582.4	1917.8	1933.3	1917.8	1938.4	1946.0	1946.0	1923.0	1917.8	1915.3
47.5°	1088.3	1490.2	1820.6	1820.6	1812.9	1838.5	1851.3	1833.3	1810.3	1802.6	1802.6
50°	1085.7	1387.8	1687.4	1677.1	1713.0	1743.7	1730.9	1713.0	1695.1	1666.9	1666.9
52.5°	985.9	1262.3	1515.8	1554.3	1610.6	1628.5	1608.1	1590.1	1559.4	1546.6	1536.3
55°	914.2	1131.8	1359.7	1436.4	1495.4	1518.4	1480.0	1462.1	1416.0	1408.3	1403.2
57.5°	898.7	942.3	1216.3	1313.6	1385.3	1382.7	1359.7	1326.4	1288.0	1280.2	1277.7
60°	824.5	681.1	1062.6	1177.8	1252.1	1244.4	1223.9	1193.2	1157.4	1152.2	1147.1
62.5°	747.7	494.2	888.5	1019.1	1124.0	1121.5	1103.6	1057.5	1031.9	1019.1	1008.8
65°	635.0	414.8	632.5	847.6	998.7	1003.7	965.3	932.1	903.9	888.5	886.0
67.5°	483.9	338.0	427.6	706.7	878.3	873.2	824.5	809.1	773.3	765.6	750.2
70°	358.4	225.3	297.0	573.6	760.5	747.7	709.3	691.4	658.0	640.1	629.8
72.5°	297.0	181.8	217.6	445.5	640.1	624.8	591.5	571.0	542.8	527.4	517.3
75°	240.7	192.1	166.5	330.3	519.8	509.6	478.8	458.3	435.3	414.8	417.3
77.5°	176.6	179.3	133.1	243.2	412.2	396.9	379.0	353.4	343.1	322.7	322.7
80°	133.1	140.8	99.9	166.5	297.0	297.0	281.7	263.8	245.8	235.6	235.6
82.5°	89.6	89.6	74.2	104.9	202.3	194.6	184.4	179.3	169.0	163.9	163.9
85°	41.0	51.2	46.1	64.1	110.1	115.2	115.2	110.1	107.6	102.4	104.9
87.5°	12.8	23.1	28.2	35.9	56.3	58.9	61.4	61.4	61.4	64.1	64.1
90°	6.0	10.9	15.7	16.9	26.5	39.2	45.6	40.6	30.4	22.9	22.9
92.5°	24.0	64.9	105.8	116.0	163.1	225.8	257.2	225.4	161.8	114.1	109.6
95°	57.7	132.5	207.2	225.9	401.1	634.7	751.6	670.6	508.8	387.5	373.7
97.5°	99.7	165.7	231.7	248.2	540.3	929.9	1124.6	1073.5	971.2	894.6	868.4
100°	132.2	192.0	251.8	266.8	591.0	1023.3	1239.4	1243.1	1250.6	1256.2	1225.0
102.5°	159.8	215.6	271.4	285.4	614.2	1052.6	1271.8	1336.9	1467.3	1565.0	1538.3
105°	206.7	254.0	301.2	313.0	631.4	1055.9	1268.2	1414.3	1706.3	1925.4	1911.1
107.5°	254.8	298.8	342.8	353.9	634.6	1008.9	1196.1	1399.8	1807.3	2112.9	2116.4
110°	287.2	326.9	366.7	376.7	629.8	967.3	1136.1	1363.8	1819.3	2161.0	2175.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	319.0	356.9	394.8	404.3	629.9	930.9	1081.4	1314.5	1780.7	2130.3	2153.3
115°	367.1	402.0	437.0	445.7	635.8	889.2	1015.9	1240.4	1689.5	2026.4	2058.3
117.5°	414.5	446.3	478.1	486.1	647.7	863.1	970.8	1173.5	1578.8	1882.8	1918.0
120°	442.2	472.0	501.9	509.4	657.2	854.3	952.8	1138.0	1508.3	1786.1	1820.4
122.5°	469.2	499.4	529.6	537.1	671.0	849.6	939.0	1105.7	1439.3	1689.4	1723.2
125°	510.7	538.2	565.6	572.5	689.6	845.8	923.9	1065.6	1348.8	1561.3	1592.6
127.5°	544.3	572.1	599.8	606.8	708.3	843.7	911.3	1033.0	1276.2	1458.6	1484.9
130°	562.3	592.2	622.1	629.6	721.9	845.1	906.6	1014.8	1231.4	1393.8	1418.1
132.5°	580.9	610.9	640.8	648.3	733.0	845.8	902.3	999.2	1193.1	1338.5	1360.3
135°	608.5	635.8	663.1	669.9	745.0	845.1	895.2	976.4	1138.7	1260.4	1279.2
137.5°	636.8	663.8	690.7	697.5	763.0	850.3	893.9	962.5	1099.8	1202.7	1218.0
140°	660.3	685.1	709.9	716.1	773.9	851.2	889.7	949.0	1067.5	1156.5	1170.8
142.5°	678.3	701.3	724.2	729.9	783.2	854.3	889.7	941.8	1045.9	1124.0	1136.3
145°	705.9	726.0	745.9	751.0	795.3	854.3	883.7	926.4	1011.5	1075.4	1084.7
147.5°	733.5	753.0	772.6	777.4	812.9	860.1	883.7	917.3	984.2	1034.5	1042.3
150°	751.6	769.2	786.8	791.2	822.0	863.2	883.7	912.0	968.6	1011.1	1017.4
152.5°	770.2	783.5	796.9	800.2	828.0	865.1	883.7	907.9	956.2	992.4	997.2
155°	797.8	807.7	817.5	820.1	841.3	869.6	883.7	902.9	941.4	970.3	973.4
157.5°	818.2	827.8	837.4	839.8	854.5	873.9	883.7	898.7	928.6	951.0	953.2
160°	832.1	839.5	847.0	848.8	860.5	876.0	883.7	896.5	922.2	941.4	942.6
162.5°	845.8	851.5	857.1	858.5	867.0	878.1	883.7	894.6	916.2	932.4	933.5
165°	860.9	865.9	871.0	872.3	876.1	881.2	883.7	891.5	907.0	918.6	919.9
167.5°	874.7	877.1	879.6	880.1	883.3	887.6	889.7	894.8	904.9	912.6	913.1
170°	883.7	886.2	888.6	889.2	889.3	889.6	889.7	894.8	904.9	912.6	912.6
172.5°	888.6	889.1	889.6	889.7	889.7	889.7	889.7	893.7	901.8	907.8	907.3
175°	895.2	895.2	895.2	895.2	893.3	890.9	889.7	892.3	897.4	901.2	901.2
177.5°	895.2	895.2	895.2	895.2	893.7	891.9	890.9	892.9	896.9	899.9	899.4
180°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2775.6	2767.9	2775.6	2770.6	2773.1	2765.4	2742.4	2734.7	2742.4	2750.0	2750.0
5°	2808.9	2803.8	2808.9	2808.9	2806.4	2801.3	2775.6	2770.6	2775.6	2778.2	2773.1
7.5°	2819.2	2811.5	2819.2	2814.1	2814.1	2808.9	2783.4	2778.2	2780.7	2788.5	2780.7
10°	2819.2	2811.5	2819.2	2816.6	2814.1	2808.9	2783.4	2773.1	2773.1	2780.7	2773.1
12.5°	2806.4	2801.3	2806.4	2801.3	2801.3	2796.1	2770.6	2760.3	2762.8	2765.4	2755.2
15°	2785.9	2778.2	2785.9	2780.7	2783.4	2775.6	2747.5	2737.2	2737.2	2742.4	2724.4
17.5°	2755.2	2744.9	2755.2	2752.6	2750.0	2744.9	2719.3	2709.0	2706.5	2709.0	2696.2
20°	2719.3	2711.6	2719.3	2716.8	2716.8	2706.5	2680.9	2668.1	2668.1	2668.1	2655.3
22.5°	2663.0	2655.3	2663.0	2668.1	2668.1	2665.5	2642.5	2624.5	2619.4	2619.4	2604.1
25°	2599.0	2591.3	2599.0	2599.0	2596.4	2599.0	2591.3	2581.0	2573.4	2565.7	2550.3
27.5°	2537.5	2532.4	2537.5	2532.4	2537.5	2529.9	2527.2	2524.7	2514.5	2506.8	2486.3
30°	2476.1	2471.0	2476.1	2471.0	2465.8	2460.7	2447.9	2442.8	2453.0	2447.9	2414.7
32.5°	2399.2	2394.1	2399.2	2399.2	2394.1	2394.1	2373.7	2365.9	2368.5	2383.8	2353.1
35°	2319.9	2312.2	2319.9	2317.3	2319.9	2312.2	2299.3	2296.8	2286.5	2304.5	2281.4
37.5°	2227.7	2220.0	2227.7	2227.7	2227.7	2232.8	2222.6	2214.8	2199.5	2222.6	2204.7
40°	2133.0	2122.7	2133.0	2130.3	2133.0	2138.1	2133.0	2127.8	2112.4	2130.3	2115.0
42.5°	2025.4	2022.9	2025.4	2027.9	2027.9	2038.2	2045.8	2035.7	2030.5	2017.7	2027.9
45°	1910.2	1905.1	1910.2	1915.3	1917.8	1923.0	1946.0	1946.0	1938.4	1917.8	1933.3
47.5°	1787.2	1774.4	1787.2	1802.6	1802.6	1810.3	1833.3	1851.3	1838.5	1812.9	1820.6
50°	1656.7	1659.2	1656.7	1666.9	1666.9	1695.1	1713.0	1730.9	1743.7	1713.0	1677.1
52.5°	1528.7	1526.1	1528.7	1536.3	1546.6	1559.4	1590.1	1608.1	1628.5	1610.6	1554.3
55°	1400.6	1405.7	1400.6	1403.2	1408.3	1416.0	1462.1	1480.0	1518.4	1495.4	1436.4
57.5°	1272.6	1264.9	1272.6	1277.7	1280.2	1288.0	1326.4	1359.7	1382.7	1385.3	1313.6
60°	1124.0	1113.9	1124.0	1147.1	1152.2	1157.4	1193.2	1223.9	1244.4	1252.1	1177.8
62.5°	993.5	975.6	993.5	1008.8	1019.1	1031.9	1057.5	1103.6	1121.5	1124.0	1019.1
65°	855.2	847.6	855.2	886.0	888.5	903.9	932.1	965.3	1003.7	998.7	847.6
67.5°	729.8	729.8	729.8	750.2	765.6	773.3	809.1	824.5	873.2	878.3	706.7
70°	614.5	612.0	614.5	629.8	640.1	658.0	691.4	709.3	747.7	760.5	573.6
72.5°	504.5	501.8	504.5	517.3	527.4	542.8	571.0	591.5	624.8	640.1	445.5
75°	407.2	402.0	407.2	417.3	414.8	435.3	458.3	478.8	509.6	519.8	330.3
77.5°	312.4	312.4	312.4	322.7	322.7	343.1	353.4	379.0	396.9	412.2	243.2
80°	233.0	230.4	233.0	235.6	235.6	245.8	263.8	281.7	297.0	297.0	166.5
82.5°	163.9	158.7	163.9	163.9	163.9	169.0	179.3	184.4	194.6	202.3	104.9
85°	102.4	102.4	102.4	104.9	102.4	107.6	110.1	115.2	115.2	110.1	64.1
87.5°	66.6	64.1	66.6	64.1	64.1	61.4	61.4	61.4	58.9	56.3	35.9
90°	22.9	22.9	22.9	22.9	22.9	30.4	40.6	45.6	39.2	26.5	16.9
92.5°	91.5	73.3	91.5	109.6	114.1	161.8	225.4	257.2	225.8	163.1	116.0
95°	318.8	263.8	318.8	373.7	387.5	508.8	670.6	751.6	634.7	401.1	225.9
97.5°	763.7	659.0	763.7	868.4	894.6	971.2	1073.5	1124.6	929.9	540.3	248.2
100°	1100.4	975.7	1100.4	1225.0	1256.2	1250.6	1243.1	1239.4	1023.3	591.0	266.8
102.5°	1431.5	1324.7	1431.5	1538.3	1565.0	1467.3	1336.9	1271.8	1052.6	614.2	285.4
105°	1853.6	1796.2	1853.6	1911.1	1925.4	1706.3	1414.3	1268.2	1055.9	631.4	313.0
107.5°	2130.2	2144.1	2130.2	2116.4	2112.9	1807.3	1399.8	1196.1	1008.9	634.6	353.9
110°	2235.8	2295.6	2235.8	2175.9	2161.0	1819.3	1363.8	1136.1	967.3	629.8	376.7

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CATALOG NUMBER: SQ4-FA-075U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2245.1	2336.9	2245.1	2153.3	2130.3	1780.7	1314.5	1081.4	930.9	629.9	404.3
115°	2185.6	2312.9	2185.6	2058.3	2026.4	1689.5	1240.4	1015.9	889.2	635.8	445.7
117.5°	2059.3	2200.6	2059.3	1918.0	1882.8	1578.8	1173.5	970.8	863.1	647.7	486.1
120°	1957.7	2094.9	1957.7	1820.4	1786.1	1508.3	1138.0	952.8	854.3	657.2	509.4
122.5°	1858.5	1993.9	1858.5	1723.2	1689.4	1439.3	1105.7	939.0	849.6	671.0	537.1
125°	1717.3	1842.0	1717.3	1592.6	1561.3	1348.8	1065.6	923.9	845.8	689.6	572.5
127.5°	1590.1	1695.4	1590.1	1484.9	1458.6	1276.2	1033.0	911.3	843.7	708.3	606.8
130°	1515.2	1612.4	1515.2	1418.1	1393.8	1231.4	1014.8	906.6	845.1	721.9	629.6
132.5°	1447.3	1534.3	1447.3	1360.3	1338.5	1193.1	999.2	902.3	845.8	733.0	648.3
135°	1354.2	1429.2	1354.2	1279.2	1260.4	1138.7	976.4	895.2	845.1	745.0	669.9
137.5°	1279.5	1340.9	1279.5	1218.0	1202.7	1099.8	962.5	893.9	850.3	763.0	697.5
140°	1228.3	1285.7	1228.3	1170.8	1156.5	1067.5	949.0	889.7	851.2	773.9	716.1
142.5°	1185.8	1235.2	1185.8	1136.3	1124.0	1045.9	941.8	889.7	854.3	783.2	729.9
145°	1122.1	1159.5	1122.1	1084.7	1075.4	1011.5	926.4	883.7	854.3	795.3	751.0
147.5°	1073.2	1104.2	1073.2	1042.3	1034.5	984.2	917.3	883.7	860.1	812.9	777.4
150°	1042.5	1067.5	1042.5	1017.4	1011.1	968.6	912.0	883.7	863.2	822.0	791.2
152.5°	1016.1	1035.1	1016.1	997.2	992.4	956.2	907.9	883.7	865.1	828.0	800.2
155°	986.0	998.5	986.0	973.4	970.3	941.4	902.9	883.7	869.6	841.3	820.1
157.5°	962.0	970.8	962.0	953.2	951.0	928.6	898.7	883.7	873.9	854.5	839.8
160°	947.8	952.8	947.8	942.6	941.4	922.2	896.5	883.7	876.0	860.5	848.8
162.5°	938.4	943.2	938.4	933.5	932.4	916.2	894.6	883.7	878.1	867.0	858.5
165°	924.9	929.9	924.9	919.9	918.6	907.0	891.5	883.7	881.2	876.1	872.3
167.5°	915.2	917.4	915.2	913.1	912.6	904.9	894.8	889.7	887.6	883.3	880.1
170°	912.6	912.6	912.6	912.6	912.6	904.9	894.8	889.7	889.6	889.3	889.2
172.5°	905.4	903.6	905.4	907.3	907.8	901.8	893.7	889.7	889.7	889.7	889.7
175°	901.2	901.2	901.2	901.2	901.2	897.4	892.3	889.7	890.9	893.3	895.2
177.5°	897.3	895.2	897.3	899.4	899.9	896.9	892.9	890.9	891.9	893.7	895.2
180°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2744.9	2729.6	2729.6	2704.0	2693.7	2686.1	2673.2	2634.8	2624.5	2614.4	2629.7
5°	2767.9	2739.8	2719.3	2673.2	2634.8	2619.4	2570.8	2478.6	2417.2	2371.0	2345.5
7.5°	2773.1	2737.2	2698.9	2627.2	2534.9	2494.0	2345.5	2176.5	2130.3	2089.5	2063.8
10°	2767.9	2727.0	2673.2	2565.7	2348.0	2276.4	2127.8	2017.7	1989.6	1981.9	1989.6
12.5°	2750.0	2711.6	2637.3	2458.2	2153.4	2104.8	2017.7	1953.7	1948.6	1961.4	2030.5
15°	2719.3	2683.5	2596.4	2314.7	2045.8	2010.0	1948.6	1925.5	1953.7	2043.3	2250.7
17.5°	2688.6	2647.6	2540.0	2174.0	1964.0	1938.4	1894.8	1940.9	2099.6	2220.0	2289.2
20°	2647.6	2599.0	2476.1	2071.5	1905.1	1882.0	1861.5	2068.9	2189.3	2232.8	2271.2
22.5°	2599.0	2547.8	2389.0	1999.8	1843.6	1825.7	1838.5	2140.6	2189.3	2220.0	2253.3
25°	2534.9	2491.4	2286.5	1943.4	1795.0	1774.4	1823.1	2133.0	2161.1	2168.8	2235.4
27.5°	2476.1	2419.7	2179.0	1892.3	1736.1	1728.4	1836.0	2099.6	2120.2	2127.8	2199.5
30°	2404.4	2319.9	2058.6	1838.5	1674.6	1672.0	1838.5	2058.6	2053.6	2074.0	2145.8
32.5°	2330.2	2171.3	1923.0	1771.9	1615.7	1613.2	1820.6	1997.2	1992.1	2020.3	2074.0
35°	2261.0	2056.1	1738.6	1695.1	1541.5	1544.0	1777.0	1925.5	1928.1	1953.7	1987.0
37.5°	2189.3	1956.2	1536.3	1610.6	1469.8	1469.8	1718.1	1858.9	1853.9	1861.5	1907.6
40°	2104.8	1800.1	1357.1	1500.5	1403.2	1395.5	1646.4	1787.2	1769.3	1766.8	1830.8
42.5°	2015.1	1628.5	1223.9	1354.6	1326.4	1316.1	1559.4	1700.2	1666.9	1674.6	1756.5
45°	1917.8	1582.4	1121.5	1144.6	1247.0	1239.4	1464.6	1600.3	1577.3	1597.8	1682.3
47.5°	1820.6	1490.2	1088.3	950.0	1162.5	1159.9	1359.7	1503.0	1490.2	1510.8	1600.3
50°	1687.4	1387.8	1085.7	814.3	1067.7	1078.0	1234.2	1408.3	1408.3	1426.3	1520.9
52.5°	1515.8	1262.3	985.9	737.4	957.7	988.4	1124.0	1326.4	1331.5	1349.4	1433.9
55°	1359.7	1131.8	914.2	678.6	827.0	893.6	1016.6	1241.9	1252.1	1270.1	1346.8
57.5°	1216.3	942.3	898.7	609.4	706.7	770.7	921.8	1159.9	1165.0	1180.4	1254.7
60°	1062.6	681.1	824.5	535.2	601.7	650.4	834.7	1062.6	1080.5	1090.8	1154.9
62.5°	888.5	494.2	747.7	483.9	550.5	560.8	763.1	970.5	993.5	1001.2	1039.5
65°	632.5	414.8	635.0	440.4	496.7	499.3	686.2	875.7	896.2	909.0	937.1
67.5°	427.6	338.0	483.9	399.4	455.8	458.3	612.0	765.6	793.8	804.0	821.9
70°	297.0	225.3	358.4	355.9	409.7	414.8	532.6	665.7	691.4	699.0	709.3
72.5°	217.6	181.8	297.0	320.1	361.0	366.2	450.7	553.1	578.7	586.3	591.5
75°	166.5	192.1	240.7	279.1	307.3	309.8	368.7	450.7	468.6	473.7	476.3
77.5°	133.1	179.3	176.6	225.3	251.0	245.8	289.3	348.3	363.6	363.6	363.6
80°	99.9	140.8	133.1	161.3	184.4	179.3	207.4	248.4	253.5	258.6	256.0
82.5°	74.2	89.6	89.6	102.4	122.9	117.8	138.3	161.3	161.3	161.3	166.5
85°	46.1	51.2	41.0	53.8	69.1	66.6	76.8	87.0	89.6	89.6	84.5
87.5°	28.2	23.1	12.8	20.4	30.7	30.7	35.9	38.4	35.9	35.9	35.9
90°	15.7	10.9	6.0	10.9	15.7	16.9	26.5	39.2	45.6	40.6	30.4
92.5°	105.8	64.9	24.0	64.9	105.8	116.0	163.1	225.8	257.2	225.4	161.8
95°	207.2	132.5	57.7	132.5	207.2	225.9	401.1	634.7	751.6	670.6	508.8
97.5°	231.7	165.7	99.7	165.7	231.7	248.2	540.3	929.9	1124.6	1073.5	971.2
100°	251.8	192.0	132.2	192.0	251.8	266.8	591.0	1023.3	1239.4	1243.1	1250.6
102.5°	271.4	215.6	159.8	215.6	271.4	285.4	614.2	1052.6	1271.8	1336.9	1467.3
105°	301.2	254.0	206.7	254.0	301.2	313.0	631.4	1055.9	1268.2	1414.3	1706.3
107.5°	342.8	298.8	254.8	298.8	342.8	353.9	634.6	1008.9	1196.1	1399.8	1807.3
110°	366.7	326.9	287.2	326.9	366.7	376.7	629.8	967.3	1136.1	1363.8	1819.3

TEST NUMBER: P934900

CATALOG NUMBER: SQ4-FA-075U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	394.8	356.9	319.0	356.9	394.8	404.3	629.9	930.9	1081.4	1314.5	1780.7
115°	437.0	402.0	367.1	402.0	437.0	445.7	635.8	889.2	1015.9	1240.4	1689.5
117.5°	478.1	446.3	414.5	446.3	478.1	486.1	647.7	863.1	970.8	1173.5	1578.8
120°	501.9	472.0	442.2	472.0	501.9	509.4	657.2	854.3	952.8	1138.0	1508.3
122.5°	529.6	499.4	469.2	499.4	529.6	537.1	671.0	849.6	939.0	1105.7	1439.3
125°	565.6	538.2	510.7	538.2	565.6	572.5	689.6	845.8	923.9	1065.6	1348.8
127.5°	599.8	572.1	544.3	572.1	599.8	606.8	708.3	843.7	911.3	1033.0	1276.2
130°	622.1	592.2	562.3	592.2	622.1	629.6	721.9	845.1	906.6	1014.8	1231.4
132.5°	640.8	610.9	580.9	610.9	640.8	648.3	733.0	845.8	902.3	999.2	1193.1
135°	663.1	635.8	608.5	635.8	663.1	669.9	745.0	845.1	895.2	976.4	1138.7
137.5°	690.7	663.8	636.8	663.8	690.7	697.5	763.0	850.3	893.9	962.5	1099.8
140°	709.9	685.1	660.3	685.1	709.9	716.1	773.9	851.2	889.7	949.0	1067.5
142.5°	724.2	701.3	678.3	701.3	724.2	729.9	783.2	854.3	889.7	941.8	1045.9
145°	745.9	726.0	705.9	726.0	745.9	751.0	795.3	854.3	883.7	926.4	1011.5
147.5°	772.6	753.0	733.5	753.0	772.6	777.4	812.9	860.1	883.7	917.3	984.2
150°	786.8	769.2	751.6	769.2	786.8	791.2	822.0	863.2	883.7	912.0	968.6
152.5°	796.9	783.5	770.2	783.5	796.9	800.2	828.0	865.1	883.7	907.9	956.2
155°	817.5	807.7	797.8	807.7	817.5	820.1	841.3	869.6	883.7	902.9	941.4
157.5°	837.4	827.8	818.2	827.8	837.4	839.8	854.5	873.9	883.7	898.7	928.6
160°	847.0	839.5	832.1	839.5	847.0	848.8	860.5	876.0	883.7	896.5	922.2
162.5°	857.1	851.5	845.8	851.5	857.1	858.5	867.0	878.1	883.7	894.6	916.2
165°	871.0	865.9	860.9	865.9	871.0	872.3	876.1	881.2	883.7	891.5	907.0
167.5°	879.6	877.1	874.7	877.1	879.6	880.1	883.3	887.6	889.7	894.8	904.9
170°	888.6	886.2	883.7	886.2	888.6	889.2	889.3	889.6	889.7	894.8	904.9
172.5°	889.6	889.1	888.6	889.1	889.6	889.7	889.7	889.7	889.7	893.7	901.8
175°	895.2	895.2	895.2	895.2	895.2	895.2	893.3	890.9	889.7	892.3	897.4
177.5°	895.2	895.2	895.2	895.2	895.2	895.2	893.7	891.9	890.9	892.9	896.9
180°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2

TEST NUMBER: P934900

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2611.7	2604.1	2614.4	2586.2	2614.4	2604.1	2611.7	2629.7	2614.4	2624.5	2634.8
5°	2291.7	2278.9	2237.9	2204.7	2237.9	2278.9	2291.7	2345.5	2371.0	2417.2	2478.6
7.5°	2048.5	2038.2	2027.9	2007.5	2027.9	2038.2	2048.5	2063.8	2089.5	2130.3	2176.5
10°	1994.7	1997.2	2012.6	2010.0	2012.6	1997.2	1994.7	1989.6	1981.9	1989.6	2017.7
12.5°	2133.0	2156.0	2240.5	2235.4	2240.5	2156.0	2133.0	2030.5	1961.4	1948.6	1953.7
15°	2291.7	2299.3	2317.3	2319.9	2317.3	2299.3	2291.7	2250.7	2043.3	1953.7	1925.5
17.5°	2307.1	2309.6	2322.4	2322.4	2322.4	2309.6	2307.1	2289.2	2220.0	2099.6	1940.9
20°	2294.3	2299.3	2325.0	2330.2	2325.0	2299.3	2294.3	2271.2	2232.8	2189.3	2068.9
22.5°	2289.2	2299.3	2319.9	2317.3	2319.9	2299.3	2289.2	2253.3	2220.0	2189.3	2140.6
25°	2263.5	2263.5	2266.1	2268.6	2266.1	2263.5	2263.5	2235.4	2168.8	2161.1	2133.0
27.5°	2209.8	2214.8	2230.3	2227.7	2230.3	2214.8	2209.8	2199.5	2127.8	2120.2	2099.6
30°	2161.1	2156.0	2143.1	2133.0	2143.1	2156.0	2161.1	2145.8	2074.0	2053.6	2058.6
32.5°	2079.2	2066.4	2053.6	2045.8	2053.6	2066.4	2079.2	2074.0	2020.3	1992.1	1997.2
35°	1981.9	1984.4	1981.9	1974.1	1981.9	1984.4	1981.9	1987.0	1953.7	1928.1	1925.5
37.5°	1912.7	1917.8	1915.3	1905.1	1915.3	1917.8	1912.7	1907.6	1861.5	1853.9	1858.9
40°	1841.0	1843.6	1841.0	1833.3	1841.0	1843.6	1841.0	1830.8	1766.8	1769.3	1787.2
42.5°	1771.9	1769.3	1761.6	1756.5	1761.6	1769.3	1771.9	1756.5	1674.6	1666.9	1700.2
45°	1692.6	1695.1	1679.8	1672.0	1679.8	1695.1	1692.6	1682.3	1597.8	1577.3	1600.3
47.5°	1613.2	1613.2	1600.3	1592.6	1600.3	1613.2	1613.2	1600.3	1510.8	1490.2	1503.0
50°	1528.7	1526.1	1508.2	1505.6	1508.2	1526.1	1528.7	1520.9	1426.3	1408.3	1408.3
52.5°	1431.3	1431.3	1433.9	1439.1	1433.9	1431.3	1431.3	1433.9	1349.4	1331.5	1326.4
55°	1346.8	1349.4	1367.4	1372.5	1367.4	1349.4	1346.8	1346.8	1270.1	1252.1	1241.9
57.5°	1259.8	1259.8	1272.6	1272.6	1272.6	1259.8	1259.8	1254.7	1180.4	1165.0	1159.9
60°	1159.9	1165.0	1175.3	1172.8	1175.3	1165.0	1159.9	1154.9	1090.8	1080.5	1062.6
62.5°	1055.0	1060.1	1062.6	1057.5	1062.6	1060.1	1055.0	1039.5	1001.2	993.5	970.5
65°	944.9	950.0	952.5	947.4	952.5	950.0	944.9	937.1	909.0	896.2	875.7
67.5°	832.2	829.7	827.0	837.3	827.0	829.7	832.2	821.9	804.0	793.8	765.6
70°	717.0	717.0	714.3	719.5	714.3	717.0	717.0	709.3	699.0	691.4	665.7
72.5°	594.1	591.5	601.7	594.1	601.7	591.5	594.1	591.5	586.3	578.7	553.1
75°	473.7	478.8	473.7	481.4	473.7	478.8	473.7	476.3	473.7	468.6	450.7
77.5°	361.0	366.2	361.0	361.0	361.0	366.2	361.0	363.6	363.6	363.6	348.3
80°	256.0	253.5	253.5	251.0	253.5	253.5	256.0	256.0	258.6	253.5	248.4
82.5°	163.9	161.3	161.3	166.5	161.3	161.3	163.9	166.5	161.3	161.3	161.3
85°	89.6	92.2	87.0	87.0	87.0	92.2	89.6	84.5	89.6	89.6	87.0
87.5°	33.3	30.7	30.7	30.7	30.7	30.7	33.3	35.9	35.9	35.9	38.4
90°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	30.4	40.6	45.6	39.2
92.5°	114.1	109.6	91.5	73.3	91.5	109.6	114.1	161.8	225.4	257.2	225.8
95°	387.5	373.7	318.8	263.8	318.8	373.7	387.5	508.8	670.6	751.6	634.7
97.5°	894.6	868.4	763.7	659.0	763.7	868.4	894.6	971.2	1073.5	1124.6	929.9
100°	1256.2	1225.0	1100.4	975.7	1100.4	1225.0	1256.2	1250.6	1243.1	1239.4	1023.3
102.5°	1565.0	1538.3	1431.5	1324.7	1431.5	1538.3	1565.0	1467.3	1336.9	1271.8	1052.6
105°	1925.4	1911.1	1853.6	1796.2	1853.6	1911.1	1925.4	1706.3	1414.3	1268.2	1055.9
107.5°	2112.9	2116.4	2130.2	2144.1	2130.2	2116.4	2112.9	1807.3	1399.8	1196.1	1008.9
110°	2161.0	2175.9	2235.8	2295.6	2235.8	2175.9	2161.0	1819.3	1363.8	1136.1	967.3

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2130.3	2153.3	2245.1	2336.9	2245.1	2153.3	2130.3	1780.7	1314.5	1081.4	930.9
115°	2026.4	2058.3	2185.6	2312.9	2185.6	2058.3	2026.4	1689.5	1240.4	1015.9	889.2
117.5°	1882.8	1918.0	2059.3	2200.6	2059.3	1918.0	1882.8	1578.8	1173.5	970.8	863.1
120°	1786.1	1820.4	1957.7	2094.9	1957.7	1820.4	1786.1	1508.3	1138.0	952.8	854.3
122.5°	1689.4	1723.2	1858.5	1993.9	1858.5	1723.2	1689.4	1439.3	1105.7	939.0	849.6
125°	1561.3	1592.6	1717.3	1842.0	1717.3	1592.6	1561.3	1348.8	1065.6	923.9	845.8
127.5°	1458.6	1484.9	1590.1	1695.4	1590.1	1484.9	1458.6	1276.2	1033.0	911.3	843.7
130°	1393.8	1418.1	1515.2	1612.4	1515.2	1418.1	1393.8	1231.4	1014.8	906.6	845.1
132.5°	1338.5	1360.3	1447.3	1534.3	1447.3	1360.3	1338.5	1193.1	999.2	902.3	845.8
135°	1260.4	1279.2	1354.2	1429.2	1354.2	1279.2	1260.4	1138.7	976.4	895.2	845.1
137.5°	1202.7	1218.0	1279.5	1340.9	1279.5	1218.0	1202.7	1099.8	962.5	893.9	850.3
140°	1156.5	1170.8	1228.3	1285.7	1228.3	1170.8	1156.5	1067.5	949.0	889.7	851.2
142.5°	1124.0	1136.3	1185.8	1235.2	1185.8	1136.3	1124.0	1045.9	941.8	889.7	854.3
145°	1075.4	1084.7	1122.1	1159.5	1122.1	1084.7	1075.4	1011.5	926.4	883.7	854.3
147.5°	1034.5	1042.3	1073.2	1104.2	1073.2	1042.3	1034.5	984.2	917.3	883.7	860.1
150°	1011.1	1017.4	1042.5	1067.5	1042.5	1017.4	1011.1	968.6	912.0	883.7	863.2
152.5°	992.4	997.2	1016.1	1035.1	1016.1	997.2	992.4	956.2	907.9	883.7	865.1
155°	970.3	973.4	986.0	998.5	986.0	973.4	970.3	941.4	902.9	883.7	869.6
157.5°	951.0	953.2	962.0	970.8	962.0	953.2	951.0	928.6	898.7	883.7	873.9
160°	941.4	942.6	947.8	952.8	947.8	942.6	941.4	922.2	896.5	883.7	876.0
162.5°	932.4	933.5	938.4	943.2	938.4	933.5	932.4	916.2	894.6	883.7	878.1
165°	918.6	919.9	924.9	929.9	924.9	919.9	918.6	907.0	891.5	883.7	881.2
167.5°	912.6	913.1	915.2	917.4	915.2	913.1	912.6	904.9	894.8	889.7	887.6
170°	912.6	912.6	912.6	912.6	912.6	912.6	912.6	904.9	894.8	889.7	889.6
172.5°	907.8	907.3	905.4	903.6	905.4	907.3	907.8	901.8	893.7	889.7	889.7
175°	901.2	901.2	901.2	901.2	901.2	901.2	901.2	897.4	892.3	889.7	890.9
177.5°	899.9	899.4	897.3	895.2	897.3	899.4	899.9	896.9	892.9	890.9	891.9
180°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2673.2	2686.1	2693.7	2704.0	2729.6
5°	2570.8	2619.4	2634.8	2673.2	2719.3
7.5°	2345.5	2494.0	2534.9	2627.2	2698.9
10°	2127.8	2276.4	2348.0	2565.7	2673.2
12.5°	2017.7	2104.8	2153.4	2458.2	2637.3
15°	1948.6	2010.0	2045.8	2314.7	2596.4
17.5°	1894.8	1938.4	1964.0	2174.0	2540.0
20°	1861.5	1882.0	1905.1	2071.5	2476.1
22.5°	1838.5	1825.7	1843.6	1999.8	2389.0
25°	1823.1	1774.4	1795.0	1943.4	2286.5
27.5°	1836.0	1728.4	1736.1	1892.3	2179.0
30°	1838.5	1672.0	1674.6	1838.5	2058.6
32.5°	1820.6	1613.2	1615.7	1771.9	1923.0
35°	1777.0	1544.0	1541.5	1695.1	1738.6
37.5°	1718.1	1469.8	1469.8	1610.6	1536.3
40°	1646.4	1395.5	1403.2	1500.5	1357.1
42.5°	1559.4	1316.1	1326.4	1354.6	1223.9
45°	1464.6	1239.4	1247.0	1144.6	1121.5
47.5°	1359.7	1159.9	1162.5	950.0	1088.3
50°	1234.2	1078.0	1067.7	814.3	1085.7
52.5°	1124.0	988.4	957.7	737.4	985.9
55°	1016.6	893.6	827.0	678.6	914.2
57.5°	921.8	770.7	706.7	609.4	898.7
60°	834.7	650.4	601.7	535.2	824.5
62.5°	763.1	560.8	550.5	483.9	747.7
65°	686.2	499.3	496.7	440.4	635.0
67.5°	612.0	458.3	455.8	399.4	483.9
70°	532.6	414.8	409.7	355.9	358.4
72.5°	450.7	366.2	361.0	320.1	297.0
75°	368.7	309.8	307.3	279.1	240.7
77.5°	289.3	245.8	251.0	225.3	176.6
80°	207.4	179.3	184.4	161.3	133.1
82.5°	138.3	117.8	122.9	102.4	89.6
85°	76.8	66.6	69.1	53.8	41.0
87.5°	35.9	30.7	30.7	20.4	12.8
90°	26.5	16.9	15.7	10.9	6.0
92.5°	163.1	116.0	105.8	64.9	24.0
95°	401.1	225.9	207.2	132.5	57.7
97.5°	540.3	248.2	231.7	165.7	99.7
100°	591.0	266.8	251.8	192.0	132.2
102.5°	614.2	285.4	271.4	215.6	159.8
105°	631.4	313.0	301.2	254.0	206.7
107.5°	634.6	353.9	342.8	298.8	254.8
110°	629.8	376.7	366.7	326.9	287.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	629.9	404.3	394.8	356.9	319.0
115°	635.8	445.7	437.0	402.0	367.1
117.5°	647.7	486.1	478.1	446.3	414.5
120°	657.2	509.4	501.9	472.0	442.2
122.5°	671.0	537.1	529.6	499.4	469.2
125°	689.6	572.5	565.6	538.2	510.7
127.5°	708.3	606.8	599.8	572.1	544.3
130°	721.9	629.6	622.1	592.2	562.3
132.5°	733.0	648.3	640.8	610.9	580.9
135°	745.0	669.9	663.1	635.8	608.5
137.5°	763.0	697.5	690.7	663.8	636.8
140°	773.9	716.1	709.9	685.1	660.3
142.5°	783.2	729.9	724.2	701.3	678.3
145°	795.3	751.0	745.9	726.0	705.9
147.5°	812.9	777.4	772.6	753.0	733.5
150°	822.0	791.2	786.8	769.2	751.6
152.5°	828.0	800.2	796.9	783.5	770.2
155°	841.3	820.1	817.5	807.7	797.8
157.5°	854.5	839.8	837.4	827.8	818.2
160°	860.5	848.8	847.0	839.5	832.1
162.5°	867.0	858.5	857.1	851.5	845.8
165°	876.1	872.3	871.0	865.9	860.9
167.5°	883.3	880.1	879.6	877.1	874.7
170°	889.3	889.2	888.6	886.2	883.7
172.5°	889.7	889.7	889.6	889.1	888.6
175°	893.3	895.2	895.2	895.2	895.2
177.5°	893.7	895.2	895.2	895.2	895.2
180°	895.2	895.2	895.2	895.2	895.2

(END OF REPORT)