

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: NEO-RAY

Report Number: P332474-940

Luminaire Tested: **S123RDIW-S1165D755U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332474-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1165D755U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6772.2 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

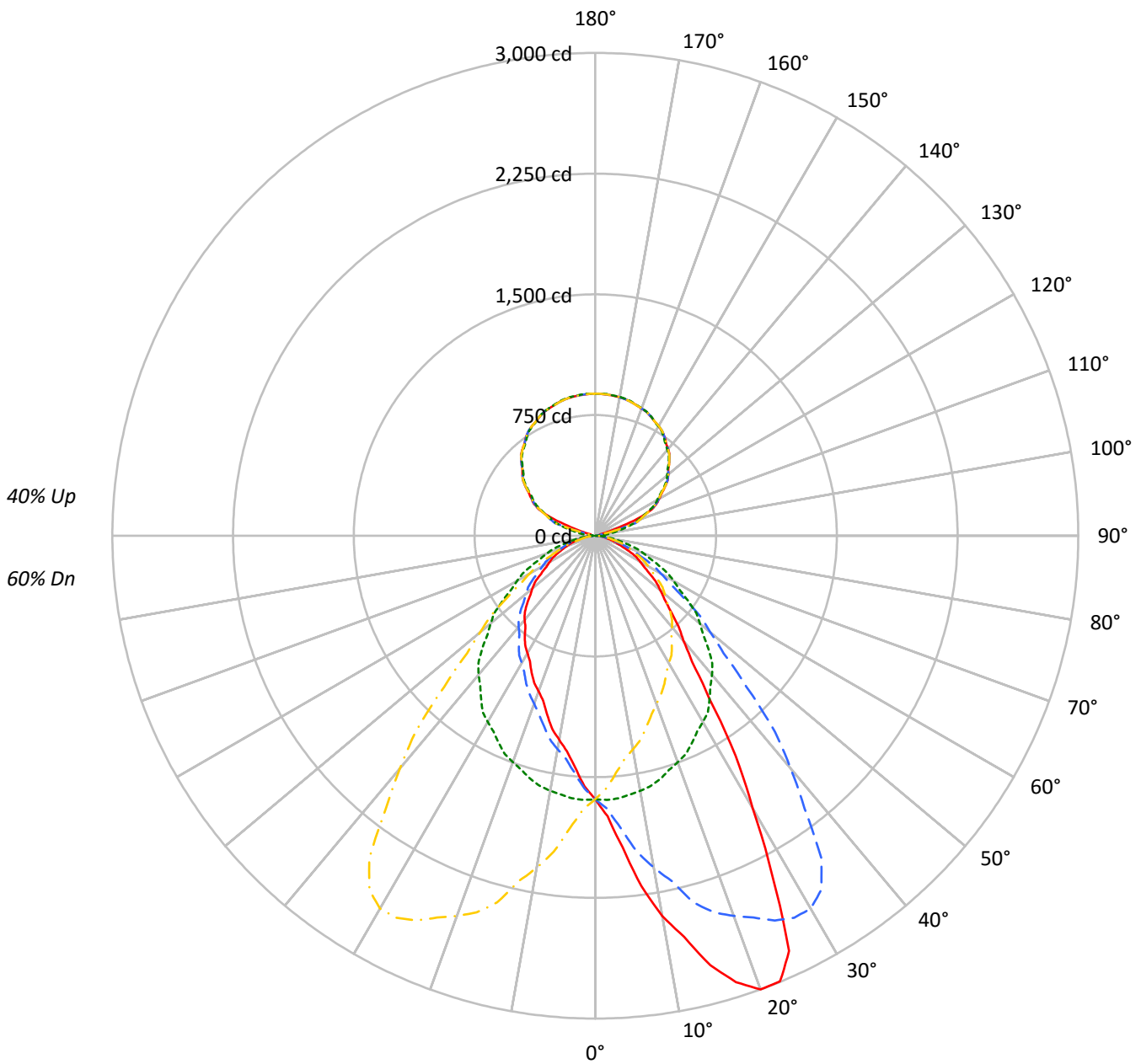
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	101	97	93	90	94	91	87	84	79	77	75	69	67	65	59	58	57	52
2	92	85	79	74	86	80	75	71	70	66	63	61	58	56	53	51	49	45
3	85	76	68	63	79	71	65	60	63	58	54	55	51	48	47	45	42	39
4	78	67	60	54	73	63	57	51	56	51	46	49	45	42	43	40	37	34
5	72	60	52	47	67	57	50	45	51	45	41	45	40	37	39	35	33	30
6	66	55	47	41	62	52	44	39	46	40	36	40	36	32	36	32	29	27
7	62	49	42	36	58	47	40	35	42	36	32	37	32	29	33	29	26	24
8	57	45	37	32	54	43	36	31	38	33	28	34	29	26	30	26	24	21
9	53	41	34	29	50	39	32	28	35	30	26	31	27	24	28	24	21	19
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17623	17623	17623	17623
5°	21007	17698	15584	17698
10°	26230	17596	14080	17596
15°	30788	17416	12840	17416
20°	34360	17148	11786	17148
25°	33812	16865	11137	16865
30°	24304	16604	10470	16604
35°	16227	16264	10038	16264
40°	11956	15855	9591	15855
45°	10029	15139	9155	15139
50°	8848	14200	8544	14200
55°	7760	13127	7707	13127
60°	6910	12099	7061	12099
65°	6069	10998	6569	10998
70°	4765	10014	5998	10014
75°	4196	8746	5481	8746
80°	3651	7426	5387	7426
85°	2939	5965	5718	5965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	2.4
10°-20°	503.0	7.4
20°-30°	790.2	11.7
30°-40°	824.4	12.2
40°-50°	705.6	10.4
50°-60°	537.8	7.9
60°-70°	344.7	5.1
70°-80°	165.8	2.4
80°-90°	46.4	0.7
90°-100°	32.1	0.5
100°-110°	153.0	2.3
110°-120°	367.6	5.4
120°-130°	468.1	6.9
130°-140°	500.2	7.4
140°-150°	467.7	6.9
150°-160°	377.3	5.6
160°-170°	243.5	3.6
170°-180°	83.9	1.2
0°-30°	1454.2	21.5
0°-40°	2278.7	33.6
0°-60°	3522.0	52.0
0°-90°	4078.8	60.2
90°-120°	552.8	8.2
90°-150°	1988.7	29.4
90°-180°	2693.0	39.8
0°-180°	6772.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1637	1637	1637	1637	1637	
5°	1944	1638	1442	1638	1944	201
15°	2763	1563	1152	1563	2763	783
25°	2847	1420	938	1420	2847	1224
35°	1235	1238	764	1238	1235	810
45°	659	994	601	994	659	518
55°	414	700	411	700	414	374
65°	238	432	258	432	238	234
75°	101	210	132	210	101	108
85°	24	48	46	48	24	28
90°	20	1	20	1	20	10
95°	25	40	25	40	25	21
105°	29	196	29	196	29	66
115°	386	367	386	367	386	357
125°	528	517	528	517	528	471
135°	650	644	650	644	650	501
145°	750	743	750	743	750	468
155°	817	818	817	818	817	377
165°	861	863	861	863	861	243
175°	880	883	880	883	880	84
180°	883	883	883	883	883	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1743.7	1746.0	1738.7	1737.6	1729.1	1726.9	1726.9	1715.1	1707.8	1698.4	1692.7
5°	1944.2	1955.4	1949.8	1937.2	1916.1	1911.2	1897.9	1876.9	1853.1	1823.6	1809.6
7.5°	2194.5	2209.8	2204.0	2184.4	2162.4	2144.7	2107.0	2072.2	2023.2	1980.3	1943.6
10°	2399.8	2383.6	2371.0	2352.1	2331.7	2298.8	2259.6	2205.6	2143.2	2094.2	2039.5
12.5°	2553.3	2550.7	2534.7	2515.2	2486.5	2455.2	2407.0	2341.3	2268.8	2197.9	2135.4
15°	2762.8	2767.0	2756.5	2736.1	2695.5	2640.1	2567.2	2539.9	2436.2	2359.1	2282.0
17.5°	2907.7	2906.9	2905.5	2877.3	2835.8	2796.4	2728.8	2656.9	2563.0	2454.4	2350.5
20°	2999.6	2992.7	2994.1	2962.5	2931.7	2886.1	2820.2	2715.8	2638.8	2513.3	2406.0
22.5°	2997.4	2996.1	3001.3	2990.5	2968.1	2933.2	2881.4	2793.2	2694.8	2568.2	2447.6
25°	2846.9	2841.3	2874.3	2883.3	2919.1	2925.3	2909.9	2861.6	2768.4	2638.0	2488.8
27.5°	2382.7	2379.5	2440.7	2517.2	2614.2	2689.6	2762.5	2797.7	2768.4	2675.0	2525.5
30°	1955.4	2021.2	2052.1	2162.8	2286.2	2433.4	2562.3	2684.9	2715.1	2674.5	2551.8
32.5°	1623.4	1681.0	1706.7	1801.8	1916.7	2089.1	2282.5	2456.2	2578.9	2609.9	2536.1
35°	1234.9	1235.6	1294.5	1336.5	1443.1	1620.4	1808.2	2040.9	2272.2	2447.4	2465.6
37.5°	985.4	988.9	1024.5	1066.4	1146.3	1240.1	1405.5	1598.9	1866.1	2135.1	2292.8
40°	850.9	857.1	883.8	925.1	982.6	1053.4	1182.3	1364.6	1587.4	1886.7	2131.3
42.5°	764.5	774.7	788.5	820.3	855.9	922.2	1026.4	1167.2	1369.9	1652.9	1935.1
45°	658.8	664.4	674.9	689.6	721.8	768.1	838.2	932.8	1101.1	1328.8	1611.2
47.5°	581.1	578.2	589.2	601.2	622.7	654.2	701.2	778.4	898.4	1081.1	1320.7
50°	528.4	527.7	535.5	544.6	564.9	588.0	626.6	684.7	780.1	931.5	1150.8
52.5°	479.1	481.8	487.2	498.6	513.3	532.0	566.6	608.5	690.4	821.0	1003.9
55°	413.5	415.6	423.3	429.6	440.1	459.1	480.8	515.9	571.9	663.0	813.7
57.5°	358.0	357.0	364.4	366.0	377.9	393.3	410.1	437.3	478.0	545.7	647.2
60°	321.0	318.9	325.2	330.1	336.4	349.0	363.0	389.7	422.0	471.7	558.6
62.5°	287.3	286.3	291.0	295.9	301.1	312.5	324.3	344.8	370.3	412.2	481.2
65°	238.3	240.4	242.5	244.6	247.4	254.4	265.6	279.6	297.2	326.6	376.4
67.5°	187.3	189.4	190.1	194.4	200.5	204.8	211.7	224.2	236.3	261.2	289.4
70°	151.4	150.7	151.4	153.5	161.2	168.9	178.0	187.2	194.8	212.3	236.2
72.5°	130.1	128.9	130.6	131.1	134.8	137.0	142.7	151.2	161.2	173.1	190.2
75°	100.9	100.9	100.9	100.9	103.7	105.1	107.3	109.3	112.8	118.4	131.1
77.5°	74.5	74.7	75.7	76.4	77.0	77.8	79.1	81.1	82.4	85.3	90.9
80°	58.9	59.6	58.9	59.6	59.6	61.0	61.7	63.8	64.5	67.9	70.1
82.5°	44.3	43.9	44.3	45.0	45.0	46.4	46.5	48.1	48.2	50.0	52.2
85°	23.8	22.5	23.8	23.1	24.5	23.1	23.8	25.2	25.2	25.9	28.7
87.5°	9.5	10.6	9.5	9.9	9.9	10.3	10.3	10.1	11.1	10.4	10.6
90°	19.7	19.4	19.1	18.8	18.5	18.1	17.5	16.9	16.3	15.8	13.8
92.5°	21.8	21.6	21.4	21.2	21.0	20.5	19.6	18.6	17.7	16.8	15.3
95°	25.0	25.0	25.0	25.0	25.0	24.4	23.4	22.4	21.4	20.3	18.7
97.5°	27.0	26.9	26.8	26.6	26.5	25.8	24.6	23.5	22.3	21.1	31.7
100°	27.6	27.4	27.3	27.1	27.0	26.3	25.1	24.0	22.8	21.7	44.4
102.5°	28.1	27.8	27.6	27.3	27.0	28.7	32.4	35.9	39.6	43.2	68.0
105°	28.9	28.6	28.3	28.0	27.7	40.5	66.3	92.1	117.9	143.7	156.9
107.5°	90.7	110.1	129.6	149.0	168.5	187.7	206.6	225.5	244.4	263.4	261.4
110°	180.5	201.3	222.1	243.0	263.9	276.7	281.5	286.3	291.1	296.0	294.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	309.6	314.0	318.4	322.8	327.2	329.4	329.3	329.2	329.1	329.0	327.4
115°	385.8	385.2	384.7	384.1	383.5	382.5	381.0	379.6	378.1	376.7	375.3
117.5°	428.6	428.5	428.4	428.3	428.1	427.5	426.3	425.2	424.0	422.8	422.1
120°	458.0	458.0	458.0	458.0	458.0	457.4	456.3	455.1	454.0	452.7	452.4
122.5°	486.9	486.8	486.6	486.5	486.4	486.0	485.1	484.3	483.5	482.7	482.1
125°	527.5	527.3	527.0	526.7	526.4	526.1	525.8	525.5	525.2	525.0	524.3
127.5°	566.7	566.9	567.2	567.6	567.8	567.8	567.3	566.9	566.3	565.9	565.2
130°	591.8	592.2	592.5	592.7	593.1	592.9	592.3	591.7	591.1	590.6	590.0
132.5°	614.9	615.4	615.8	616.2	616.6	616.5	615.9	615.4	614.7	614.2	613.7
135°	650.2	650.7	651.1	651.6	652.0	652.0	651.6	651.1	650.7	650.2	649.7
137.5°	683.5	683.8	684.0	684.4	684.7	684.5	683.8	683.1	682.3	681.6	681.4
140°	703.4	703.7	704.0	704.3	704.6	704.5	703.8	703.3	702.7	702.1	701.7
142.5°	721.8	722.2	722.6	723.0	723.4	723.4	722.9	722.5	722.0	721.6	721.1
145°	750.0	750.0	750.0	750.0	750.0	749.8	749.6	749.3	748.9	748.7	748.4
147.5°	771.0	771.7	772.3	773.0	773.6	773.9	773.6	773.3	773.0	772.7	772.4
150°	786.8	787.2	787.6	788.1	788.5	788.5	788.3	788.0	787.7	787.4	787.1
152.5°	799.3	800.0	800.7	801.4	802.0	802.1	801.6	801.0	800.5	800.0	799.9
155°	816.9	817.8	818.7	819.6	820.5	820.6	819.7	819.0	818.3	817.6	817.4
157.5°	831.8	832.9	834.0	835.2	836.3	836.4	835.5	834.7	833.8	832.9	833.1
160°	841.2	842.2	843.3	844.3	845.3	845.3	844.5	843.6	842.8	841.9	842.0
162.5°	850.2	851.0	851.9	852.8	853.7	853.7	852.7	851.8	850.8	849.7	849.9
165°	860.9	861.9	862.9	864.0	865.0	864.9	863.7	862.6	861.4	860.2	860.4
167.5°	868.6	869.8	870.9	872.2	873.3	873.3	872.2	870.9	869.8	868.6	868.6
170°	873.3	874.5	875.7	876.9	878.1	878.1	876.9	875.7	874.5	873.3	873.3
172.5°	876.0	877.3	878.6	879.9	881.1	881.2	880.0	878.9	877.7	876.6	876.4
175°	879.9	881.1	882.3	883.4	884.6	884.7	883.7	882.6	881.6	880.6	880.5
177.5°	881.1	882.3	883.4	884.6	885.7	885.9	884.9	884.0	883.1	882.2	882.1
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1690.5	1688.8	1681.0	1672.0	1660.2	1652.3	1646.2	1642.8	1632.7	1620.4	1611.9
5°	1794.9	1773.9	1751.4	1724.1	1698.9	1672.9	1656.8	1637.9	1614.8	1588.9	1570.7
7.5°	1906.7	1865.5	1821.1	1775.3	1730.0	1689.3	1653.5	1622.7	1585.9	1548.7	1522.7
10°	1992.5	1932.2	1869.9	1806.1	1747.9	1693.3	1651.2	1609.9	1565.8	1523.0	1490.8
12.5°	2070.5	1991.1	1919.2	1840.8	1766.5	1701.1	1640.6	1591.9	1538.8	1493.3	1456.5
15°	2169.2	2087.9	2000.9	1881.8	1783.0	1700.3	1626.7	1562.9	1498.4	1442.3	1406.6
17.5°	2261.4	2139.0	2022.2	1922.9	1794.5	1691.1	1601.3	1525.1	1454.3	1394.8	1350.9
20°	2299.5	2181.0	2054.2	1927.3	1801.2	1685.6	1581.1	1497.0	1423.4	1356.1	1315.5
22.5°	2322.5	2188.3	2054.8	1918.4	1784.4	1664.3	1560.9	1468.5	1388.7	1324.7	1274.6
25°	2349.3	2189.5	2042.3	1907.7	1771.0	1640.7	1518.0	1420.0	1333.7	1265.8	1212.5
27.5°	2367.0	2179.0	2005.0	1855.5	1716.8	1587.0	1474.6	1370.6	1283.2	1211.2	1154.1
30°	2370.3	2170.5	1976.4	1814.5	1673.7	1554.5	1435.4	1335.9	1243.3	1166.9	1113.7
32.5°	2374.8	2149.8	1937.7	1765.8	1621.5	1503.5	1395.5	1300.5	1205.8	1130.5	1076.1
35°	2356.3	2138.3	1879.0	1681.3	1537.0	1422.7	1325.3	1237.7	1144.5	1071.6	1016.3
37.5°	2276.6	2092.8	1818.2	1586.4	1435.4	1329.5	1250.2	1173.8	1088.3	1009.7	957.5
40°	2196.5	2047.9	1771.0	1528.6	1370.9	1262.2	1190.8	1128.4	1045.7	972.1	916.1
42.5°	2077.1	1986.8	1726.2	1468.0	1298.0	1193.3	1133.0	1074.5	1001.9	927.2	874.5
45°	1858.0	1869.9	1634.4	1371.5	1197.0	1091.9	1035.2	994.5	930.1	868.3	814.4
47.5°	1583.2	1694.7	1526.6	1268.8	1090.7	992.0	942.4	906.9	863.4	802.9	753.7
50°	1403.8	1562.9	1440.3	1199.9	1024.0	925.9	876.7	848.0	810.2	762.5	715.6
52.5°	1238.4	1409.3	1336.0	1123.0	951.6	861.9	814.0	790.3	760.3	715.4	673.0
55°	1010.0	1183.0	1166.3	1007.1	843.1	762.5	726.1	699.5	679.1	645.5	611.9
57.5°	816.9	981.1	989.7	878.2	747.5	667.9	636.5	616.4	603.2	577.8	546.7
60°	695.3	846.0	875.4	791.3	679.1	609.0	578.2	562.0	551.6	531.3	507.4
62.5°	594.3	722.6	755.9	695.4	613.5	548.0	523.8	508.3	501.1	483.6	462.5
65°	454.9	561.4	593.6	560.0	517.2	464.7	445.1	431.8	425.4	415.6	400.2
67.5°	342.1	419.6	455.0	431.3	415.9	382.6	370.1	363.0	357.4	350.7	337.8
70°	274.7	332.2	368.6	362.3	349.7	332.2	323.1	318.2	312.5	307.0	295.8
72.5°	220.9	260.5	294.6	297.8	287.5	284.0	276.0	273.9	270.5	263.8	257.6
75°	146.5	173.8	197.6	206.8	211.0	214.5	211.0	210.3	209.6	203.9	200.5
77.5°	96.0	110.8	125.7	141.3	147.8	152.7	153.7	156.3	154.4	151.5	149.8
80°	73.6	77.1	87.6	100.9	111.5	115.7	118.4	119.8	119.1	118.4	115.7
82.5°	53.4	56.4	61.3	70.6	79.5	86.5	88.2	87.9	89.4	89.9	87.6
85°	28.7	29.4	30.9	32.3	37.2	44.9	47.0	48.3	49.8	49.8	45.6
87.5°	11.3	10.4	11.1	10.8	12.2	12.5	15.6	18.1	18.9	16.9	17.3
90°	11.9	10.1	8.2	6.5	5.0	3.6	2.1	0.6	2.1	3.6	5.0
92.5°	13.9	12.5	11.1	10.6	11.0	11.4	11.8	12.2	11.8	11.4	11.0
95°	17.1	15.5	13.9	16.1	22.1	28.1	34.1	40.0	34.1	28.1	22.1
97.5°	42.1	52.6	63.1	69.7	72.4	75.1	77.8	80.4	77.8	75.1	72.4
100°	67.1	89.9	112.6	122.5	119.7	116.7	113.8	110.9	113.8	116.7	119.7
102.5°	92.8	117.7	142.6	153.9	151.9	149.7	147.7	145.5	147.7	149.7	151.9
105°	170.0	183.1	196.2	202.0	200.4	198.8	197.2	195.6	197.2	198.8	200.4
107.5°	259.2	257.2	255.1	253.4	252.2	250.8	249.6	248.3	249.6	250.8	252.2
110°	292.7	291.1	289.5	288.1	287.0	285.8	284.6	283.5	284.6	285.8	287.0



TEST NUMBER: P332474-940

CATALOG NUMBER: S123RDIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	325.8	324.2	322.6	321.3	320.2	319.1	318.1	317.1	318.1	319.1	320.2
115°	374.0	372.7	371.4	370.3	369.4	368.5	367.7	366.8	367.7	368.5	369.4
117.5°	421.5	420.8	420.2	419.3	418.2	417.1	416.1	415.0	416.1	417.1	418.2
120°	451.9	451.5	451.0	450.1	448.8	447.5	446.2	444.9	446.2	447.5	448.8
122.5°	481.6	481.0	480.5	479.7	478.6	477.5	476.4	475.4	476.4	477.5	478.6
125°	523.8	523.2	522.6	521.7	520.6	519.4	518.3	517.1	518.3	519.4	520.6
127.5°	564.5	563.8	563.1	562.1	561.0	559.8	558.7	557.5	558.7	559.8	561.0
130°	589.4	588.8	588.3	587.4	586.2	585.1	583.9	582.6	583.9	585.1	586.2
132.5°	613.2	612.8	612.3	611.5	610.3	609.1	608.0	606.8	608.0	609.1	610.3
135°	649.1	648.5	647.9	647.2	646.3	645.4	644.6	643.7	644.6	645.4	646.3
137.5°	681.0	680.6	680.4	679.7	678.5	677.4	676.3	675.2	676.3	677.4	678.5
140°	701.2	700.8	700.3	699.7	698.8	697.9	697.1	696.2	697.1	697.9	698.8
142.5°	720.7	720.2	719.8	719.2	718.3	717.4	716.5	715.6	716.5	717.4	718.3
145°	748.1	747.8	747.5	746.9	745.8	744.8	743.8	742.8	743.8	744.8	745.8
147.5°	772.1	771.9	771.5	771.1	770.3	769.7	769.0	768.4	769.0	769.7	770.3
150°	786.8	786.6	786.2	785.9	785.4	785.0	784.5	784.2	784.5	785.0	785.4
152.5°	799.7	799.5	799.3	799.2	798.9	798.7	798.5	798.3	798.5	798.7	798.9
155°	817.3	817.2	817.0	817.1	817.3	817.7	818.0	818.2	818.0	817.7	817.3
157.5°	833.2	833.4	833.6	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7
160°	842.1	842.3	842.5	842.6	842.8	842.9	843.0	843.2	843.0	842.9	842.8
162.5°	850.1	850.2	850.3	850.6	851.0	851.3	851.8	852.1	851.8	851.3	851.0
165°	860.5	860.7	860.9	861.1	861.6	862.0	862.5	862.9	862.5	862.0	861.6
167.5°	868.6	868.6	868.6	869.0	869.5	870.1	870.7	871.3	870.7	870.1	869.5
170°	873.3	873.3	873.3	873.7	874.2	874.9	875.4	876.0	875.4	874.9	874.2
172.5°	876.3	876.2	876.0	876.4	877.1	877.7	878.4	879.1	878.4	877.7	877.1
175°	880.3	880.1	880.0	880.3	881.0	881.7	882.4	883.2	882.4	881.7	881.0
177.5°	881.9	881.8	881.7	881.9	882.5	883.1	883.7	884.2	883.7	883.1	882.5
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P332474-940

CATALOG NUMBER: S123RDIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1609.2	1601.9	1596.9	1585.6	1578.3	1570.5	1562.6	1567.7	1567.1	1566.6	1566.6
5°	1555.2	1539.1	1524.4	1505.5	1493.5	1478.8	1467.6	1466.2	1469.0	1459.2	1453.6
7.5°	1501.6	1479.6	1458.7	1437.9	1415.8	1398.1	1387.0	1381.8	1374.7	1368.6	1362.4
10°	1464.1	1438.2	1417.8	1391.9	1368.1	1347.0	1333.7	1324.6	1319.7	1314.8	1305.7
12.5°	1425.4	1400.1	1374.1	1344.8	1322.1	1297.7	1287.7	1277.6	1268.1	1262.7	1250.2
15°	1368.8	1335.9	1308.5	1277.6	1252.4	1228.6	1214.6	1194.3	1191.4	1184.5	1171.8
17.5°	1312.0	1276.2	1238.6	1215.7	1187.2	1162.4	1141.1	1134.3	1114.2	1106.6	1095.7
20°	1267.1	1234.2	1205.5	1175.4	1134.0	1110.9	1094.0	1084.9	1068.8	1059.0	1052.0
22.5°	1228.4	1195.0	1161.7	1126.6	1092.5	1066.6	1054.3	1040.1	1031.3	1017.5	1010.0
25°	1173.2	1136.8	1096.8	1059.0	1034.5	1014.9	995.2	982.6	970.0	963.7	949.7
27.5°	1109.0	1070.9	1033.6	1004.9	974.7	955.4	937.6	926.4	911.2	900.6	892.9
30°	1073.7	1028.9	996.6	970.7	932.1	913.9	900.6	886.6	875.4	864.2	856.5
32.5°	1032.8	991.8	961.3	929.2	899.6	879.7	862.5	850.2	840.6	829.9	822.2
35°	968.6	934.2	902.7	870.5	848.7	828.4	808.1	797.5	788.5	778.6	771.7
37.5°	910.5	878.4	848.5	817.9	790.9	774.5	758.0	750.0	737.7	731.1	724.0
40°	874.7	843.1	810.9	781.5	753.4	740.8	726.1	714.2	702.9	698.0	690.4
42.5°	835.4	803.9	776.7	745.0	722.0	704.9	691.3	678.3	669.9	662.7	658.4
45°	777.2	749.2	722.6	691.1	669.3	654.6	639.2	627.2	619.6	614.7	606.9
47.5°	720.8	692.8	665.7	638.2	617.2	600.4	585.0	576.7	566.4	560.4	555.2
50°	679.8	654.6	625.9	600.7	579.6	562.8	550.2	539.7	530.6	522.8	519.3
52.5°	642.3	615.4	590.6	566.9	544.8	525.8	514.2	503.2	496.3	487.5	483.5
55°	580.3	554.4	533.3	510.2	488.5	472.3	458.3	448.5	441.6	431.8	426.1
57.5°	522.1	498.9	473.8	453.7	431.3	417.7	406.1	392.8	384.2	376.5	371.0
60°	482.9	456.3	434.5	415.6	396.0	378.4	367.9	357.4	348.3	340.6	335.7
62.5°	441.9	418.7	398.1	377.5	359.5	344.3	332.1	323.2	315.2	310.3	305.4
65°	379.2	361.0	339.9	323.1	306.3	295.1	285.3	277.5	272.0	268.4	264.2
67.5°	321.4	303.7	285.3	268.9	257.6	249.1	242.6	236.0	233.3	228.7	226.0
70°	283.8	265.6	249.5	236.9	225.7	219.4	215.2	210.3	207.4	201.9	199.0
72.5°	242.9	229.7	218.1	207.8	198.8	193.1	187.7	181.6	177.2	171.0	168.2
75°	191.4	179.4	170.3	163.3	157.7	150.0	142.3	136.0	133.8	131.8	131.1
77.5°	141.7	134.1	127.5	121.6	114.7	109.1	107.4	105.9	105.6	104.4	104.4
80°	111.5	104.4	99.5	92.5	88.3	88.3	88.3	86.9	87.6	87.6	87.6
82.5°	82.8	76.4	73.7	71.2	70.4	70.9	70.9	71.2	70.8	71.9	71.3
85°	42.7	43.4	44.9	44.1	44.9	44.9	46.3	45.6	46.3	44.9	46.3
87.5°	17.0	19.0	20.0	20.9	21.8	21.7	22.3	22.5	23.1	23.3	23.4
90°	6.5	8.2	10.1	11.9	13.8	15.8	16.3	16.9	17.5	18.1	18.5
92.5°	10.6	11.1	12.5	13.9	15.3	16.8	17.7	18.6	19.6	20.5	21.0
95°	16.1	13.9	15.5	17.1	18.7	20.3	21.4	22.4	23.4	24.4	25.0
97.5°	69.7	63.1	52.6	42.1	31.7	21.1	22.3	23.5	24.6	25.8	26.5
100°	122.5	112.6	89.9	67.1	44.4	21.7	22.8	24.0	25.1	26.3	27.0
102.5°	153.9	142.6	117.7	92.8	68.0	43.2	39.6	35.9	32.4	28.7	27.0
105°	202.0	196.2	183.1	170.0	156.9	143.7	117.9	92.1	66.3	40.5	27.7
107.5°	253.4	255.1	257.2	259.2	261.4	263.4	244.4	225.5	206.6	187.7	168.5
110°	288.1	289.5	291.1	292.7	294.4	296.0	291.1	286.3	281.5	276.7	263.9



TEST NUMBER: P332474-940

CATALOG NUMBER: S123RDIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	321.3	322.6	324.2	325.8	327.4	329.0	329.1	329.2	329.3	329.4	327.2
115°	370.3	371.4	372.7	374.0	375.3	376.7	378.1	379.6	381.0	382.5	383.5
117.5°	419.3	420.2	420.8	421.5	422.1	422.8	424.0	425.2	426.3	427.5	428.1
120°	450.1	451.0	451.5	451.9	452.4	452.7	454.0	455.1	456.3	457.4	458.0
122.5°	479.7	480.5	481.0	481.6	482.1	482.7	483.5	484.3	485.1	486.0	486.4
125°	521.7	522.6	523.2	523.8	524.3	525.0	525.2	525.5	525.8	526.1	526.4
127.5°	562.1	563.1	563.8	564.5	565.2	565.9	566.3	566.9	567.3	567.8	567.8
130°	587.4	588.3	588.8	589.4	590.0	590.6	591.1	591.7	592.3	592.9	593.1
132.5°	611.5	612.3	612.8	613.2	613.7	614.2	614.7	615.4	615.9	616.5	616.6
135°	647.2	647.9	648.5	649.1	649.7	650.2	650.7	651.1	651.6	652.0	652.0
137.5°	679.7	680.4	680.6	681.0	681.4	681.6	682.3	683.1	683.8	684.5	684.7
140°	699.7	700.3	700.8	701.2	701.7	702.1	702.7	703.3	703.8	704.5	704.6
142.5°	719.2	719.8	720.2	720.7	721.1	721.6	722.0	722.5	722.9	723.4	723.4
145°	746.9	747.5	747.8	748.1	748.4	748.7	748.9	749.3	749.6	749.8	750.0
147.5°	771.1	771.5	771.9	772.1	772.4	772.7	773.0	773.3	773.6	773.9	773.6
150°	785.9	786.2	786.6	786.8	787.1	787.4	787.7	788.0	788.3	788.5	788.5
152.5°	799.2	799.3	799.5	799.7	799.9	800.0	800.5	801.0	801.6	802.1	802.0
155°	817.1	817.0	817.2	817.3	817.4	817.6	818.3	819.0	819.7	820.6	820.5
157.5°	833.7	833.6	833.4	833.2	833.1	832.9	833.8	834.7	835.5	836.4	836.3
160°	842.6	842.5	842.3	842.1	842.0	841.9	842.8	843.6	844.5	845.3	845.3
162.5°	850.6	850.3	850.2	850.1	849.9	849.7	850.8	851.8	852.7	853.7	853.7
165°	861.1	860.9	860.7	860.5	860.4	860.2	861.4	862.6	863.7	864.9	865.0
167.5°	869.0	868.6	868.6	868.6	868.6	868.6	869.8	870.9	872.2	873.3	873.3
170°	873.7	873.3	873.3	873.3	873.3	873.3	874.5	875.7	876.9	878.1	878.1
172.5°	876.4	876.0	876.2	876.3	876.4	876.6	877.7	878.9	880.0	881.2	881.1
175°	880.3	880.0	880.1	880.3	880.5	880.6	881.6	882.6	883.7	884.7	884.6
177.5°	881.9	881.7	881.8	881.9	882.1	882.2	883.1	884.0	884.9	885.9	885.7
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P332474-940

CATALOG NUMBER: S123RDIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1559.9	1559.2	1559.9	1557.6	1559.9	1559.2	1559.9	1566.6	1566.6	1567.1	1567.7
5°	1451.4	1450.8	1448.7	1442.3	1448.7	1450.8	1451.4	1453.6	1459.2	1469.0	1466.2
7.5°	1356.8	1355.8	1349.7	1349.9	1349.7	1355.8	1356.8	1362.4	1368.6	1374.7	1381.8
10°	1300.8	1301.5	1293.1	1288.2	1293.1	1301.5	1300.8	1305.7	1314.8	1319.7	1324.6
12.5°	1246.4	1243.2	1236.4	1231.0	1236.4	1243.2	1246.4	1250.2	1262.7	1268.1	1277.6
15°	1174.7	1167.6	1150.8	1152.2	1150.8	1167.6	1174.7	1171.8	1184.5	1191.4	1194.3
17.5°	1090.1	1084.9	1084.7	1074.9	1084.7	1084.9	1090.1	1095.7	1106.6	1114.2	1134.3
20°	1040.8	1037.2	1038.7	1028.9	1038.7	1037.2	1040.8	1052.0	1059.0	1068.8	1084.9
22.5°	1002.1	998.5	992.7	989.6	992.7	998.5	1002.1	1010.0	1017.5	1031.3	1040.1
25°	945.5	939.9	934.2	937.7	934.2	939.9	945.5	949.7	963.7	970.0	982.6
27.5°	888.9	884.7	879.0	878.3	879.0	884.7	888.9	892.9	900.6	911.2	926.4
30°	852.9	848.7	846.0	842.4	846.0	848.7	852.9	856.5	864.2	875.4	886.6
32.5°	816.5	815.6	810.7	809.9	810.7	815.6	816.5	822.2	829.9	840.6	850.2
35°	768.8	764.6	763.2	763.9	763.2	764.6	768.8	771.7	778.6	788.5	797.5
37.5°	723.5	717.9	715.4	712.9	715.4	717.9	723.5	724.0	731.1	737.7	750.0
40°	691.1	685.5	684.0	682.6	684.0	685.5	691.1	690.4	698.0	702.9	714.2
42.5°	654.6	652.4	651.5	649.0	651.5	652.4	654.6	658.4	662.7	669.9	678.3
45°	604.8	604.1	599.9	601.4	599.9	604.1	604.8	606.9	614.7	619.6	627.2
47.5°	552.4	549.3	546.4	548.3	546.4	549.3	552.4	555.2	560.4	566.4	576.7
50°	516.6	515.1	508.8	510.2	508.8	515.1	516.6	519.3	522.8	530.6	539.7
52.5°	480.6	475.3	473.0	472.1	473.0	475.3	480.6	483.5	487.5	496.3	503.2
55°	421.2	414.9	412.1	410.7	412.1	414.9	421.2	426.1	431.8	441.6	448.5
57.5°	362.9	361.2	359.0	360.5	359.0	361.2	362.9	371.0	376.5	384.2	392.8
60°	328.7	328.7	328.7	328.0	328.7	328.7	328.7	335.7	340.6	348.3	357.4
62.5°	302.4	300.7	300.1	301.1	300.1	300.7	302.4	305.4	310.3	315.2	323.2
65°	262.2	261.4	258.6	257.9	258.6	261.4	262.2	264.2	268.4	272.0	277.5
67.5°	224.2	221.6	220.8	219.8	220.8	221.6	224.2	226.0	228.7	233.3	236.0
70°	195.6	194.1	189.9	190.6	189.9	194.1	195.6	199.0	201.9	207.4	210.3
72.5°	164.7	163.3	162.5	161.5	162.5	163.3	164.7	168.2	171.0	177.2	181.6
75°	130.4	129.7	128.9	131.8	128.9	129.7	130.4	131.1	131.8	133.8	136.0
77.5°	104.4	104.4	104.9	103.7	104.9	104.4	104.4	104.4	104.4	105.6	105.9
80°	87.6	87.6	86.9	86.9	86.9	87.6	87.6	87.6	87.6	87.6	86.9
82.5°	70.3	70.8	71.2	70.1	71.2	70.8	70.3	71.3	71.9	70.8	71.2
85°	46.3	45.6	47.0	46.3	47.0	45.6	46.3	46.3	44.9	46.3	45.6
87.5°	24.5	23.5	23.5	24.2	23.5	23.5	24.5	23.4	23.3	23.1	22.5
90°	18.8	19.1	19.4	19.7	19.4	19.1	18.8	18.5	18.1	17.5	16.9
92.5°	21.2	21.4	21.6	21.8	21.6	21.4	21.2	21.0	20.5	19.6	18.6
95°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.4	23.4	22.4
97.5°	26.6	26.8	26.9	27.0	26.9	26.8	26.6	26.5	25.8	24.6	23.5
100°	27.1	27.3	27.4	27.6	27.4	27.3	27.1	27.0	26.3	25.1	24.0
102.5°	27.3	27.6	27.8	28.1	27.8	27.6	27.3	27.0	28.7	32.4	35.9
105°	28.0	28.3	28.6	28.9	28.6	28.3	28.0	27.7	40.5	66.3	92.1
107.5°	149.0	129.6	110.1	90.7	110.1	129.6	149.0	168.5	187.7	206.6	225.5
110°	243.0	222.1	201.3	180.5	201.3	222.1	243.0	263.9	276.7	281.5	286.3



TEST NUMBER: P332474-940

CATALOG NUMBER: S123RDIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	322.8	318.4	314.0	309.6	314.0	318.4	322.8	327.2	329.4	329.3	329.2
115°	384.1	384.7	385.2	385.8	385.2	384.7	384.1	383.5	382.5	381.0	379.6
117.5°	428.3	428.4	428.5	428.6	428.5	428.4	428.3	428.1	427.5	426.3	425.2
120°	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0	457.4	456.3	455.1
122.5°	486.5	486.6	486.8	486.9	486.8	486.6	486.5	486.4	486.0	485.1	484.3
125°	526.7	527.0	527.3	527.5	527.3	527.0	526.7	526.4	526.1	525.8	525.5
127.5°	567.6	567.2	566.9	566.7	566.9	567.2	567.6	567.8	567.8	567.3	566.9
130°	592.7	592.5	592.2	591.8	592.2	592.5	592.7	593.1	592.9	592.3	591.7
132.5°	616.2	615.8	615.4	614.9	615.4	615.8	616.2	616.6	616.5	615.9	615.4
135°	651.6	651.1	650.7	650.2	650.7	651.1	651.6	652.0	652.0	651.6	651.1
137.5°	684.4	684.0	683.8	683.5	683.8	684.0	684.4	684.7	684.5	683.8	683.1
140°	704.3	704.0	703.7	703.4	703.7	704.0	704.3	704.6	704.5	703.8	703.3
142.5°	723.0	722.6	722.2	721.8	722.2	722.6	723.0	723.4	723.4	722.9	722.5
145°	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	749.8	749.6	749.3
147.5°	773.0	772.3	771.7	771.0	771.7	772.3	773.0	773.6	773.9	773.6	773.3
150°	788.1	787.6	787.2	786.8	787.2	787.6	788.1	788.5	788.5	788.3	788.0
152.5°	801.4	800.7	800.0	799.3	800.0	800.7	801.4	802.0	802.1	801.6	801.0
155°	819.6	818.7	817.8	816.9	817.8	818.7	819.6	820.5	820.6	819.7	819.0
157.5°	835.2	834.0	832.9	831.8	832.9	834.0	835.2	836.3	836.4	835.5	834.7
160°	844.3	843.3	842.2	841.2	842.2	843.3	844.3	845.3	845.3	844.5	843.6
162.5°	852.8	851.9	851.0	850.2	851.0	851.9	852.8	853.7	853.7	852.7	851.8
165°	864.0	862.9	861.9	860.9	861.9	862.9	864.0	865.0	864.9	863.7	862.6
167.5°	872.2	870.9	869.8	868.6	869.8	870.9	872.2	873.3	873.3	872.2	870.9
170°	876.9	875.7	874.5	873.3	874.5	875.7	876.9	878.1	878.1	876.9	875.7
172.5°	879.9	878.6	877.3	876.0	877.3	878.6	879.9	881.1	881.2	880.0	878.9
175°	883.4	882.3	881.1	879.9	881.1	882.3	883.4	884.6	884.7	883.7	882.6
177.5°	884.6	883.4	882.3	881.1	882.3	883.4	884.6	885.7	885.9	884.9	884.0
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P332474-940

CATALOG NUMBER: S123RDIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1562.6	1570.5	1578.3	1585.6	1596.9	1601.9	1609.2	1611.9	1620.4	1632.7	1642.8
5°	1467.6	1478.8	1493.5	1505.5	1524.4	1539.1	1555.2	1570.7	1588.9	1614.8	1637.9
7.5°	1387.0	1398.1	1415.8	1437.9	1458.7	1479.6	1501.6	1522.7	1548.7	1585.9	1622.7
10°	1333.7	1347.0	1368.1	1391.9	1417.8	1438.2	1464.1	1490.8	1523.0	1565.8	1609.9
12.5°	1287.7	1297.7	1322.1	1344.8	1374.1	1400.1	1425.4	1456.5	1493.3	1538.8	1591.9
15°	1214.6	1228.6	1252.4	1277.6	1308.5	1335.9	1368.8	1406.6	1442.3	1498.4	1562.9
17.5°	1141.1	1162.4	1187.2	1215.7	1238.6	1276.2	1312.0	1350.9	1394.8	1454.3	1525.1
20°	1094.0	1110.9	1134.0	1175.4	1205.5	1234.2	1267.1	1315.5	1356.1	1423.4	1497.0
22.5°	1054.3	1066.6	1092.5	1126.6	1161.7	1195.0	1228.4	1274.6	1324.7	1388.7	1468.5
25°	995.2	1014.9	1034.5	1059.0	1096.8	1136.8	1173.2	1212.5	1265.8	1333.7	1420.0
27.5°	937.6	955.4	974.7	1004.9	1033.6	1070.9	1109.0	1154.1	1211.2	1283.2	1370.6
30°	900.6	913.9	932.1	970.7	996.6	1028.9	1073.7	1113.7	1166.9	1243.3	1335.9
32.5°	862.5	879.7	899.6	929.2	961.3	991.8	1032.8	1076.1	1130.5	1205.8	1300.5
35°	808.1	828.4	848.7	870.5	902.7	934.2	968.6	1016.3	1071.6	1144.5	1237.7
37.5°	758.0	774.5	790.9	817.9	848.5	878.4	910.5	957.5	1009.7	1088.3	1173.8
40°	726.1	740.8	753.4	781.5	810.9	843.1	874.7	916.1	972.1	1045.7	1128.4
42.5°	691.3	704.9	722.0	745.0	776.7	803.9	835.4	874.5	927.2	1001.9	1074.5
45°	639.2	654.6	669.3	691.1	722.6	749.2	777.2	814.4	868.3	930.1	994.5
47.5°	585.0	600.4	617.2	638.2	665.7	692.8	720.8	753.7	802.9	863.4	906.9
50°	550.2	562.8	579.6	600.7	625.9	654.6	679.8	715.6	762.5	810.2	848.0
52.5°	514.2	525.8	544.8	566.9	590.6	615.4	642.3	673.0	715.4	760.3	790.3
55°	458.3	472.3	488.5	510.2	533.3	554.4	580.3	611.9	645.5	679.1	699.5
57.5°	406.1	417.7	431.3	453.7	473.8	498.9	522.1	546.7	577.8	603.2	616.4
60°	367.9	378.4	396.0	415.6	434.5	456.3	482.9	507.4	531.3	551.6	562.0
62.5°	332.1	344.3	359.5	377.5	398.1	418.7	441.9	462.5	483.6	501.1	508.3
65°	285.3	295.1	306.3	323.1	339.9	361.0	379.2	400.2	415.6	425.4	431.8
67.5°	242.6	249.1	257.6	268.9	285.3	303.7	321.4	337.8	350.7	357.4	363.0
70°	215.2	219.4	225.7	236.9	249.5	265.6	283.8	295.8	307.0	312.5	318.2
72.5°	187.7	193.1	198.8	207.8	218.1	229.7	242.9	257.6	263.8	270.5	273.9
75°	142.3	150.0	157.7	163.3	170.3	179.4	191.4	200.5	203.9	209.6	210.3
77.5°	107.4	109.1	114.7	121.6	127.5	134.1	141.7	149.8	151.5	154.4	156.3
80°	88.3	88.3	88.3	92.5	99.5	104.4	111.5	115.7	118.4	119.1	119.8
82.5°	70.9	70.9	70.4	71.2	73.7	76.4	82.8	87.6	89.9	89.4	87.9
85°	46.3	44.9	44.9	44.1	44.9	43.4	42.7	45.6	49.8	49.8	48.3
87.5°	22.3	21.7	21.8	20.9	20.0	19.0	17.0	17.3	16.9	18.9	18.1
90°	16.3	15.8	13.8	11.9	10.1	8.2	6.5	5.0	3.6	2.1	0.6
92.5°	17.7	16.8	15.3	13.9	12.5	11.1	10.6	11.0	11.4	11.8	12.2
95°	21.4	20.3	18.7	17.1	15.5	13.9	16.1	22.1	28.1	34.1	40.0
97.5°	22.3	21.1	31.7	42.1	52.6	63.1	69.7	72.4	75.1	77.8	80.4
100°	22.8	21.7	44.4	67.1	89.9	112.6	122.5	119.7	116.7	113.8	110.9
102.5°	39.6	43.2	68.0	92.8	117.7	142.6	153.9	151.9	149.7	147.7	145.5
105°	117.9	143.7	156.9	170.0	183.1	196.2	202.0	200.4	198.8	197.2	195.6
107.5°	244.4	263.4	261.4	259.2	257.2	255.1	253.4	252.2	250.8	249.6	248.3
110°	291.1	296.0	294.4	292.7	291.1	289.5	288.1	287.0	285.8	284.6	283.5



TEST NUMBER: P332474-940

CATALOG NUMBER: S123RDIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.1	329.0	327.4	325.8	324.2	322.6	321.3	320.2	319.1	318.1	317.1
115°	378.1	376.7	375.3	374.0	372.7	371.4	370.3	369.4	368.5	367.7	366.8
117.5°	424.0	422.8	422.1	421.5	420.8	420.2	419.3	418.2	417.1	416.1	415.0
120°	454.0	452.7	452.4	451.9	451.5	451.0	450.1	448.8	447.5	446.2	444.9
122.5°	483.5	482.7	482.1	481.6	481.0	480.5	479.7	478.6	477.5	476.4	475.4
125°	525.2	525.0	524.3	523.8	523.2	522.6	521.7	520.6	519.4	518.3	517.1
127.5°	566.3	565.9	565.2	564.5	563.8	563.1	562.1	561.0	559.8	558.7	557.5
130°	591.1	590.6	590.0	589.4	588.8	588.3	587.4	586.2	585.1	583.9	582.6
132.5°	614.7	614.2	613.7	613.2	612.8	612.3	611.5	610.3	609.1	608.0	606.8
135°	650.7	650.2	649.7	649.1	648.5	647.9	647.2	646.3	645.4	644.6	643.7
137.5°	682.3	681.6	681.4	681.0	680.6	680.4	679.7	678.5	677.4	676.3	675.2
140°	702.7	702.1	701.7	701.2	700.8	700.3	699.7	698.8	697.9	697.1	696.2
142.5°	722.0	721.6	721.1	720.7	720.2	719.8	719.2	718.3	717.4	716.5	715.6
145°	748.9	748.7	748.4	748.1	747.8	747.5	746.9	745.8	744.8	743.8	742.8
147.5°	773.0	772.7	772.4	772.1	771.9	771.5	771.1	770.3	769.7	769.0	768.4
150°	787.7	787.4	787.1	786.8	786.6	786.2	785.9	785.4	785.0	784.5	784.2
152.5°	800.5	800.0	799.9	799.7	799.5	799.3	799.2	798.9	798.7	798.5	798.3
155°	818.3	817.6	817.4	817.3	817.2	817.0	817.1	817.3	817.7	818.0	818.2
157.5°	833.8	832.9	833.1	833.2	833.4	833.6	833.7	833.7	833.7	833.7	833.7
160°	842.8	841.9	842.0	842.1	842.3	842.5	842.6	842.8	842.9	843.0	843.2
162.5°	850.8	849.7	849.9	850.1	850.2	850.3	850.6	851.0	851.3	851.8	852.1
165°	861.4	860.2	860.4	860.5	860.7	860.9	861.1	861.6	862.0	862.5	862.9
167.5°	869.8	868.6	868.6	868.6	868.6	868.6	869.0	869.5	870.1	870.7	871.3
170°	874.5	873.3	873.3	873.3	873.3	873.3	873.7	874.2	874.9	875.4	876.0
172.5°	877.7	876.6	876.4	876.3	876.2	876.0	876.4	877.1	877.7	878.4	879.1
175°	881.6	880.6	880.5	880.3	880.1	880.0	880.3	881.0	881.7	882.4	883.2
177.5°	883.1	882.2	882.1	881.9	881.8	881.7	881.9	882.5	883.1	883.7	884.2
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P332474-940

CATALOG NUMBER: S123RDIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.2	1652.3	1660.2	1672.0	1681.0	1688.8	1690.5	1692.7	1698.4	1707.8	1715.1
5°	1656.8	1672.9	1698.9	1724.1	1751.4	1773.9	1794.9	1809.6	1823.6	1853.1	1876.9
7.5°	1653.5	1689.3	1730.0	1775.3	1821.1	1865.5	1906.7	1943.6	1980.3	2023.2	2072.2
10°	1651.2	1693.3	1747.9	1806.1	1869.9	1932.2	1992.5	2039.5	2094.2	2143.2	2205.6
12.5°	1640.6	1701.1	1766.5	1840.8	1919.2	1991.1	2070.5	2135.4	2197.9	2268.8	2341.3
15°	1626.7	1700.3	1783.0	1881.8	2000.9	2087.9	2169.2	2282.0	2359.1	2436.2	2539.9
17.5°	1601.3	1691.1	1794.5	1922.9	2022.2	2139.0	2261.4	2350.5	2454.4	2563.0	2656.9
20°	1581.1	1685.6	1801.2	1927.3	2054.2	2181.0	2299.5	2406.0	2513.3	2638.8	2715.8
22.5°	1560.9	1664.3	1784.4	1918.4	2054.8	2188.3	2322.5	2447.6	2568.2	2694.8	2793.2
25°	1518.0	1640.7	1771.0	1907.7	2042.3	2189.5	2349.3	2488.8	2638.0	2768.4	2861.6
27.5°	1474.6	1587.0	1716.8	1855.5	2005.0	2179.0	2367.0	2525.5	2675.0	2768.4	2797.7
30°	1435.4	1554.5	1673.7	1814.5	1976.4	2170.5	2370.3	2551.8	2674.5	2715.1	2684.9
32.5°	1395.5	1503.5	1621.5	1765.8	1937.7	2149.8	2374.8	2536.1	2609.9	2578.9	2456.2
35°	1325.3	1422.7	1537.0	1681.3	1879.0	2138.3	2356.3	2465.6	2447.4	2272.2	2040.9
37.5°	1250.2	1329.5	1435.4	1586.4	1818.2	2092.8	2276.6	2292.8	2135.1	1866.1	1598.9
40°	1190.8	1262.2	1370.9	1528.6	1771.0	2047.9	2196.5	2131.3	1886.7	1587.4	1364.6
42.5°	1133.0	1193.3	1298.0	1468.0	1726.2	1986.8	2077.1	1935.1	1652.9	1369.9	1167.2
45°	1035.2	1091.9	1197.0	1371.5	1634.4	1869.9	1858.0	1611.2	1328.8	1101.1	932.8
47.5°	942.4	992.0	1090.7	1268.8	1526.6	1694.7	1583.2	1320.7	1081.1	898.4	778.4
50°	876.7	925.9	1024.0	1199.9	1440.3	1562.9	1403.8	1150.8	931.5	780.1	684.7
52.5°	814.0	861.9	951.6	1123.0	1336.0	1409.3	1238.4	1003.9	821.0	690.4	608.5
55°	726.1	762.5	843.1	1007.1	1166.3	1183.0	1010.0	813.7	663.0	571.9	515.9
57.5°	636.5	667.9	747.5	878.2	989.7	981.1	816.9	647.2	545.7	478.0	437.3
60°	578.2	609.0	679.1	791.3	875.4	846.0	695.3	558.6	471.7	422.0	389.7
62.5°	523.8	548.0	613.5	695.4	755.9	722.6	594.3	481.2	412.2	370.3	344.8
65°	445.1	464.7	517.2	560.0	593.6	561.4	454.9	376.4	326.6	297.2	279.6
67.5°	370.1	382.6	415.9	431.3	455.0	419.6	342.1	289.4	261.2	236.3	224.2
70°	323.1	332.2	349.7	362.3	368.6	332.2	274.7	236.2	212.3	194.8	187.2
72.5°	276.0	284.0	287.5	297.8	294.6	260.5	220.9	190.2	173.1	161.2	151.2
75°	211.0	214.5	211.0	206.8	197.6	173.8	146.5	131.1	118.4	112.8	109.3
77.5°	153.7	152.7	147.8	141.3	125.7	110.8	96.0	90.9	85.3	82.4	81.1
80°	118.4	115.7	111.5	100.9	87.6	77.1	73.6	70.1	67.9	64.5	63.8
82.5°	88.2	86.5	79.5	70.6	61.3	56.4	53.4	52.2	50.0	48.2	48.1
85°	47.0	44.9	37.2	32.3	30.9	29.4	28.7	28.7	25.9	25.2	25.2
87.5°	15.6	12.5	12.2	10.8	11.1	10.4	11.3	10.6	10.4	11.1	10.1
90°	2.1	3.6	5.0	6.5	8.2	10.1	11.9	13.8	15.8	16.3	16.9
92.5°	11.8	11.4	11.0	10.6	11.1	12.5	13.9	15.3	16.8	17.7	18.6
95°	34.1	28.1	22.1	16.1	13.9	15.5	17.1	18.7	20.3	21.4	22.4
97.5°	77.8	75.1	72.4	69.7	63.1	52.6	42.1	31.7	21.1	22.3	23.5
100°	113.8	116.7	119.7	122.5	112.6	89.9	67.1	44.4	21.7	22.8	24.0
102.5°	147.7	149.7	151.9	153.9	142.6	117.7	92.8	68.0	43.2	39.6	35.9
105°	197.2	198.8	200.4	202.0	196.2	183.1	170.0	156.9	143.7	117.9	92.1
107.5°	249.6	250.8	252.2	253.4	255.1	257.2	259.2	261.4	263.4	244.4	225.5
110°	284.6	285.8	287.0	288.1	289.5	291.1	292.7	294.4	296.0	291.1	286.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	318.1	319.1	320.2	321.3	322.6	324.2	325.8	327.4	329.0	329.1	329.2
115°	367.7	368.5	369.4	370.3	371.4	372.7	374.0	375.3	376.7	378.1	379.6
117.5°	416.1	417.1	418.2	419.3	420.2	420.8	421.5	422.1	422.8	424.0	425.2
120°	446.2	447.5	448.8	450.1	451.0	451.5	451.9	452.4	452.7	454.0	455.1
122.5°	476.4	477.5	478.6	479.7	480.5	481.0	481.6	482.1	482.7	483.5	484.3
125°	518.3	519.4	520.6	521.7	522.6	523.2	523.8	524.3	525.0	525.2	525.5
127.5°	558.7	559.8	561.0	562.1	563.1	563.8	564.5	565.2	565.9	566.3	566.9
130°	583.9	585.1	586.2	587.4	588.3	588.8	589.4	590.0	590.6	591.1	591.7
132.5°	608.0	609.1	610.3	611.5	612.3	612.8	613.2	613.7	614.2	614.7	615.4
135°	644.6	645.4	646.3	647.2	647.9	648.5	649.1	649.7	650.2	650.7	651.1
137.5°	676.3	677.4	678.5	679.7	680.4	680.6	681.0	681.4	681.6	682.3	683.1
140°	697.1	697.9	698.8	699.7	700.3	700.8	701.2	701.7	702.1	702.7	703.3
142.5°	716.5	717.4	718.3	719.2	719.8	720.2	720.7	721.1	721.6	722.0	722.5
145°	743.8	744.8	745.8	746.9	747.5	747.8	748.1	748.4	748.7	748.9	749.3
147.5°	769.0	769.7	770.3	771.1	771.5	771.9	772.1	772.4	772.7	773.0	773.3
150°	784.5	785.0	785.4	785.9	786.2	786.6	786.8	787.1	787.4	787.7	788.0
152.5°	798.5	798.7	798.9	799.2	799.3	799.5	799.7	799.9	800.0	800.5	801.0
155°	818.0	817.7	817.3	817.1	817.0	817.2	817.3	817.4	817.6	818.3	819.0
157.5°	833.7	833.7	833.7	833.7	833.6	833.4	833.2	833.1	832.9	833.8	834.7
160°	843.0	842.9	842.8	842.6	842.5	842.3	842.1	842.0	841.9	842.8	843.6
162.5°	851.8	851.3	851.0	850.6	850.3	850.2	850.1	849.9	849.7	850.8	851.8
165°	862.5	862.0	861.6	861.1	860.9	860.7	860.5	860.4	860.2	861.4	862.6
167.5°	870.7	870.1	869.5	869.0	868.6	868.6	868.6	868.6	868.6	869.8	870.9
170°	875.4	874.9	874.2	873.7	873.3	873.3	873.3	873.3	873.3	874.5	875.7
172.5°	878.4	877.7	877.1	876.4	876.0	876.2	876.3	876.4	876.6	877.7	878.9
175°	882.4	881.7	881.0	880.3	880.0	880.1	880.3	880.5	880.6	881.6	882.6
177.5°	883.7	883.1	882.5	881.9	881.7	881.8	881.9	882.1	882.2	883.1	884.0
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1726.9	1726.9	1729.1	1737.6	1738.7	1746.0	1743.7
5°	1897.9	1911.2	1916.1	1937.2	1949.8	1955.4	1944.2
7.5°	2107.0	2144.7	2162.4	2184.4	2204.0	2209.8	2194.5
10°	2259.6	2298.8	2331.7	2352.1	2371.0	2383.6	2399.8
12.5°	2407.0	2455.2	2486.5	2515.2	2534.7	2550.7	2553.3
15°	2567.2	2640.1	2695.5	2736.1	2756.5	2767.0	2762.8
17.5°	2728.8	2796.4	2835.8	2877.3	2905.5	2906.9	2907.7
20°	2820.2	2886.1	2931.7	2962.5	2994.1	2992.7	2999.6
22.5°	2881.4	2933.2	2968.1	2990.5	3001.3	2996.1	2997.4
25°	2909.9	2925.3	2919.1	2883.3	2874.3	2841.3	2846.9
27.5°	2762.5	2689.6	2614.2	2517.2	2440.7	2379.5	2382.7
30°	2562.3	2433.4	2286.2	2162.8	2052.1	2021.2	1955.4
32.5°	2282.5	2089.1	1916.7	1801.8	1706.7	1681.0	1623.4
35°	1808.2	1620.4	1443.1	1336.5	1294.5	1235.6	1234.9
37.5°	1405.5	1240.1	1146.3	1066.4	1024.5	988.9	985.4
40°	1182.3	1053.4	982.6	925.1	883.8	857.1	850.9
42.5°	1026.4	922.2	855.9	820.3	788.5	774.7	764.5
45°	838.2	768.1	721.8	689.6	674.9	664.4	658.8
47.5°	701.2	654.2	622.7	601.2	589.2	578.2	581.1
50°	626.6	588.0	564.9	544.6	535.5	527.7	528.4
52.5°	566.6	532.0	513.3	498.6	487.2	481.8	479.1
55°	480.8	459.1	440.1	429.6	423.3	415.6	413.5
57.5°	410.1	393.3	377.9	366.0	364.4	357.0	358.0
60°	363.0	349.0	336.4	330.1	325.2	318.9	321.0
62.5°	324.3	312.5	301.1	295.9	291.0	286.3	287.3
65°	265.6	254.4	247.4	244.6	242.5	240.4	238.3
67.5°	211.7	204.8	200.5	194.4	190.1	189.4	187.3
70°	178.0	168.9	161.2	153.5	151.4	150.7	151.4
72.5°	142.7	137.0	134.8	131.1	130.6	128.9	130.1
75°	107.3	105.1	103.7	100.9	100.9	100.9	100.9
77.5°	79.1	77.8	77.0	76.4	75.7	74.7	74.5
80°	61.7	61.0	59.6	59.6	58.9	59.6	58.9
82.5°	46.5	46.4	45.0	45.0	44.3	43.9	44.3
85°	23.8	23.1	24.5	23.1	23.8	22.5	23.8
87.5°	10.3	10.3	9.9	9.9	9.5	10.6	9.5
90°	17.5	18.1	18.5	18.8	19.1	19.4	19.7
92.5°	19.6	20.5	21.0	21.2	21.4	21.6	21.8
95°	23.4	24.4	25.0	25.0	25.0	25.0	25.0
97.5°	24.6	25.8	26.5	26.6	26.8	26.9	27.0
100°	25.1	26.3	27.0	27.1	27.3	27.4	27.6
102.5°	32.4	28.7	27.0	27.3	27.6	27.8	28.1
105°	66.3	40.5	27.7	28.0	28.3	28.6	28.9
107.5°	206.6	187.7	168.5	149.0	129.6	110.1	90.7
110°	281.5	276.7	263.9	243.0	222.1	201.3	180.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	329.3	329.4	327.2	322.8	318.4	314.0	309.6
115°	381.0	382.5	383.5	384.1	384.7	385.2	385.8
117.5°	426.3	427.5	428.1	428.3	428.4	428.5	428.6
120°	456.3	457.4	458.0	458.0	458.0	458.0	458.0
122.5°	485.1	486.0	486.4	486.5	486.6	486.8	486.9
125°	525.8	526.1	526.4	526.7	527.0	527.3	527.5
127.5°	567.3	567.8	567.8	567.6	567.2	566.9	566.7
130°	592.3	592.9	593.1	592.7	592.5	592.2	591.8
132.5°	615.9	616.5	616.6	616.2	615.8	615.4	614.9
135°	651.6	652.0	652.0	651.6	651.1	650.7	650.2
137.5°	683.8	684.5	684.7	684.4	684.0	683.8	683.5
140°	703.8	704.5	704.6	704.3	704.0	703.7	703.4
142.5°	722.9	723.4	723.4	723.0	722.6	722.2	721.8
145°	749.6	749.8	750.0	750.0	750.0	750.0	750.0
147.5°	773.6	773.9	773.6	773.0	772.3	771.7	771.0
150°	788.3	788.5	788.5	788.1	787.6	787.2	786.8
152.5°	801.6	802.1	802.0	801.4	800.7	800.0	799.3
155°	819.7	820.6	820.5	819.6	818.7	817.8	816.9
157.5°	835.5	836.4	836.3	835.2	834.0	832.9	831.8
160°	844.5	845.3	845.3	844.3	843.3	842.2	841.2
162.5°	852.7	853.7	853.7	852.8	851.9	851.0	850.2
165°	863.7	864.9	865.0	864.0	862.9	861.9	860.9
167.5°	872.2	873.3	873.3	872.2	870.9	869.8	868.6
170°	876.9	878.1	878.1	876.9	875.7	874.5	873.3
172.5°	880.0	881.2	881.1	879.9	878.6	877.3	876.0
175°	883.7	884.7	884.6	883.4	882.3	881.1	879.9
177.5°	884.9	885.9	885.7	884.6	883.4	882.3	881.1
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2

(END OF REPORT)