

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: P332301-830

Luminaire Tested: **S123RDIP-S775D365U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332301-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S775D365U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4046.2 lumens
Efficiency: N/A
Efficacy: 115.6 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

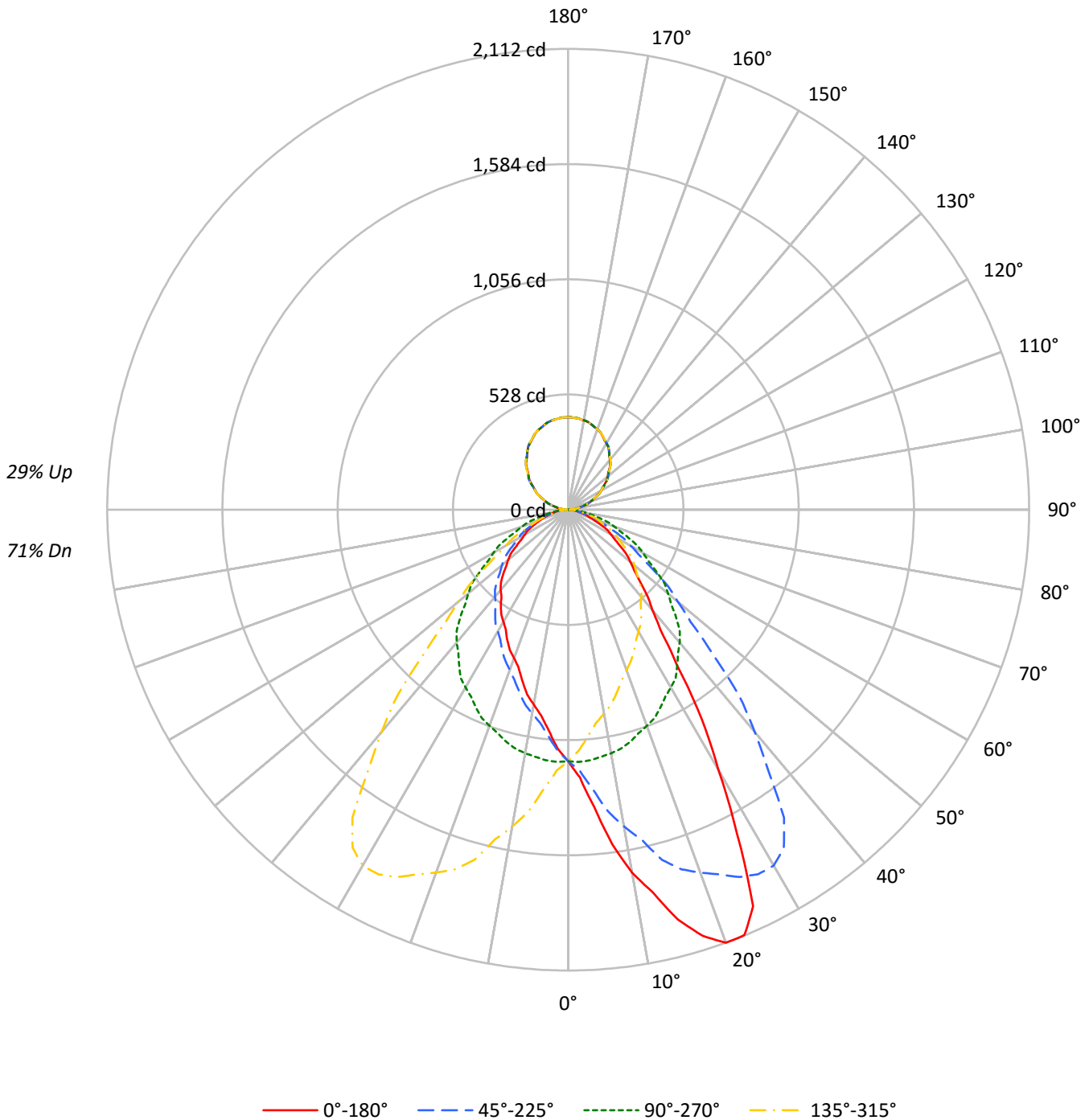
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	99	95	92	98	94	91	88	85	82	80	76	74	72	68	67	65	61
2	95	88	82	77	90	83	78	74	75	71	68	68	65	62	61	58	56	53
3	87	78	71	65	82	74	68	63	67	62	58	61	57	53	55	52	49	46
4	80	69	62	56	76	66	59	54	60	55	50	55	50	46	49	46	43	40
5	74	62	54	48	70	60	52	47	54	48	44	49	45	41	45	41	38	35
6	68	56	48	43	65	54	47	41	49	43	39	45	40	36	41	37	34	31
7	64	51	43	38	60	49	42	37	45	39	35	41	36	32	38	33	30	28
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27	25
9	55	43	36	30	52	41	34	30	38	32	28	35	30	26	32	28	25	23
10	52	40	32	28	49	38	31	27	35	29	25	33	28	24	30	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12408	12408	12408	12408
5°	14791	12460	10974	12460
10°	18467	12389	9913	12389
15°	21677	12262	9040	12262
20°	24192	12073	8298	12073
25°	23807	11874	7842	11874
30°	17112	11691	7372	11691
35°	11426	11452	7068	11452
40°	8418	11164	6753	11164
45°	7060	10659	6445	10659
50°	6231	9999	6015	9999
55°	5465	9242	5427	9242
60°	4865	8521	4971	8521
65°	4274	7743	4625	7743
70°	3355	7050	4223	7050
75°	2957	6159	3855	6159
80°	2572	5232	3794	5232
85°	2075	4199	4026	4199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	2.8
10°-20°	354.2	8.8
20°-30°	556.4	13.8
30°-40°	580.5	14.3
40°-50°	496.8	12.3
50°-60°	378.6	9.4
60°-70°	242.7	6.0
70°-80°	116.7	2.9
80°-90°	32.1	0.8
90°-100°	27.6	0.7
100°-110°	82.7	2.0
110°-120°	140.6	3.5
120°-130°	185.0	4.6
130°-140°	207.9	5.1
140°-150°	204.4	5.1
150°-160°	172.0	4.3
160°-170°	114.5	2.8
170°-180°	40.1	1.0
0°-30°	1023.9	25.3
0°-40°	1604.4	39.7
0°-60°	2479.8	61.3
0°-90°	2871.4	71.0
90°-120°	250.9	6.2
90°-150°	848.1	21.0
90°-180°	1175.0	29.0
0°-180°	4046.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1369	1153	1016	1153	1369	141
15°	1945	1100	811	1100	1945	552
25°	2004	1000	660	1000	2004	862
35°	870	872	538	872	870	570
45°	464	700	423	700	464	365
55°	291	492	289	492	291	263
65°	168	304	182	304	168	165
75°	71	148	93	148	71	76
85°	17	34	33	34	17	19
90°	10	0	10	0	10	5
95°	26	20	26	20	26	27
105°	79	75	79	75	79	84
115°	142	142	142	142	142	141
125°	205	207	205	207	205	183
135°	268	269	268	269	268	206
145°	326	326	326	326	326	204
155°	373	373	373	373	373	172
165°	405	407	405	407	405	114
175°	421	423	421	423	421	40
180°	424	424	424	424	424	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1227.8	1229.4	1224.2	1223.4	1217.5	1215.9	1215.9	1207.6	1202.5	1195.8	1191.8
5°	1368.9	1376.8	1372.8	1364.0	1349.2	1345.7	1336.3	1321.5	1304.8	1284.0	1274.1
7.5°	1545.1	1555.9	1551.8	1538.0	1522.6	1510.0	1483.6	1459.0	1424.6	1394.3	1368.5
10°	1689.6	1678.3	1669.4	1656.0	1641.8	1618.5	1590.9	1552.9	1509.0	1474.5	1436.0
12.5°	1797.8	1795.9	1784.7	1770.9	1750.8	1728.7	1694.8	1648.5	1597.4	1547.6	1503.5
15°	1945.2	1948.2	1940.8	1926.5	1897.9	1858.9	1807.6	1788.3	1715.3	1661.0	1606.8
17.5°	2047.3	2046.7	2045.7	2025.9	1996.7	1969.0	1921.4	1870.8	1804.6	1728.2	1655.0
20°	2112.0	2107.1	2108.1	2085.8	2064.2	2032.1	1985.7	1912.2	1857.9	1769.6	1694.0
22.5°	2110.4	2109.5	2113.3	2105.6	2089.8	2065.3	2028.7	1966.7	1897.4	1808.3	1723.3
25°	2004.5	2000.5	2023.7	2030.1	2055.3	2059.7	2048.9	2014.9	1949.2	1857.4	1752.3
27.5°	1677.6	1675.5	1718.4	1772.4	1840.6	1893.8	1945.0	1969.8	1949.2	1883.5	1778.2
30°	1376.8	1423.1	1444.9	1522.9	1609.7	1713.4	1804.1	1890.5	1911.7	1883.1	1796.7
32.5°	1143.1	1183.6	1201.6	1268.6	1349.5	1470.9	1607.1	1729.4	1815.8	1837.7	1785.6
35°	869.5	870.0	911.4	941.0	1016.1	1140.9	1273.2	1437.0	1599.8	1723.2	1736.0
37.5°	693.8	696.3	721.3	750.8	807.1	873.2	989.6	1125.8	1313.9	1503.3	1614.3
40°	599.1	603.5	622.3	651.4	691.8	741.7	832.5	960.8	1117.7	1328.4	1500.6
42.5°	538.3	545.4	555.2	577.6	602.7	649.3	722.7	821.8	964.5	1163.8	1362.4
45°	463.8	467.8	475.2	485.6	508.3	540.8	590.2	656.8	775.2	935.7	1134.4
47.5°	409.2	407.1	414.9	423.3	438.4	460.6	493.7	548.1	632.5	761.2	929.9
50°	372.1	371.6	377.0	383.4	397.8	414.1	441.2	482.1	549.2	655.8	810.3
52.5°	337.3	339.2	343.1	351.1	361.4	374.6	398.9	428.4	486.1	578.1	706.8
55°	291.2	292.7	298.0	302.5	309.9	323.2	338.6	363.2	402.7	466.8	572.9
57.5°	252.0	251.4	256.6	257.7	266.1	276.9	288.8	307.9	336.6	384.2	455.6
60°	226.0	224.5	228.9	232.4	236.9	245.7	255.6	274.4	297.1	332.1	393.3
62.5°	202.4	201.6	204.9	208.3	212.0	220.1	228.4	242.8	260.7	290.3	338.8
65°	167.8	169.3	170.7	172.2	174.2	179.1	187.0	196.9	209.2	230.0	264.9
67.5°	131.9	133.4	133.8	136.9	141.1	144.2	149.0	157.8	166.4	183.9	203.8
70°	106.6	106.1	106.6	108.1	113.5	118.9	125.4	131.8	137.1	149.5	166.3
72.5°	91.6	90.7	92.0	92.3	94.9	96.4	100.5	106.5	113.5	121.9	133.9
75°	71.1	71.1	71.1	71.1	73.0	74.0	75.5	77.0	79.5	83.4	92.3
77.5°	52.5	52.6	53.3	53.8	54.2	54.8	55.7	57.1	58.1	60.1	64.0
80°	41.5	41.9	41.5	41.9	41.9	42.9	43.5	44.9	45.4	47.9	49.4
82.5°	31.2	30.9	31.2	31.7	31.7	32.7	32.8	33.8	33.9	35.3	36.8
85°	16.8	15.8	16.8	16.3	17.2	16.3	16.8	17.7	17.7	18.3	20.3
87.5°	5.9	6.7	5.8	6.2	6.2	6.6	6.5	6.4	7.2	6.7	7.0
90°	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6	8.3	8.0	7.1
92.5°	13.5	13.6	13.7	13.8	13.9	13.8	13.5	13.3	13.0	12.8	12.3
95°	26.0	26.0	26.0	26.0	26.0	25.8	25.5	25.3	25.0	24.7	24.0
97.5°	40.0	40.0	40.1	40.1	40.1	40.0	39.6	39.2	38.9	38.5	38.2
100°	50.6	50.5	50.3	50.1	50.0	49.9	49.7	49.4	49.2	48.9	48.6
102.5°	61.5	61.5	61.6	61.6	61.6	61.5	61.4	61.2	60.9	60.7	60.2
105°	79.3	79.2	79.0	78.8	78.7	78.6	78.6	78.6	78.6	78.6	77.9
107.5°	97.7	97.8	97.9	98.0	98.1	98.0	97.7	97.6	97.3	97.1	96.8
110°	110.3	110.4	110.6	110.7	110.8	110.7	110.5	110.2	109.9	109.6	109.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	123.6	123.6	123.7	123.7	123.7	123.6	123.2	122.8	122.4	122.2	122.1
115°	141.9	141.9	142.0	142.1	142.2	142.2	142.1	142.0	141.9	141.9	142.0
117.5°	160.5	160.7	160.9	161.1	161.3	161.5	161.5	161.5	161.5	161.5	161.6
120°	173.5	173.7	173.8	174.0	174.1	174.3	174.3	174.4	174.5	174.6	174.9
122.5°	186.1	186.2	186.4	186.7	186.9	187.1	187.3	187.5	187.7	187.8	188.0
125°	204.8	205.1	205.5	205.8	206.0	206.3	206.6	206.9	207.2	207.5	207.6
127.5°	223.6	223.9	224.2	224.6	224.9	225.3	225.7	226.1	226.6	227.0	227.2
130°	235.8	236.4	236.9	237.4	237.9	238.3	238.6	238.9	239.2	239.5	239.7
132.5°	248.6	249.0	249.4	249.8	250.2	250.6	250.9	251.3	251.7	252.0	252.1
135°	268.4	268.6	268.7	268.9	269.1	269.3	269.6	269.8	270.1	270.5	270.5
137.5°	286.0	286.3	286.5	286.8	287.1	287.4	287.8	288.0	288.3	288.6	288.4
140°	297.5	297.9	298.5	299.0	299.5	299.8	299.9	299.9	300.0	300.1	300.0
142.5°	309.2	309.5	310.0	310.4	310.8	311.0	311.0	311.1	311.2	311.3	311.1
145°	326.1	326.4	326.7	327.0	327.3	327.4	327.5	327.6	327.7	327.7	327.5
147.5°	341.1	341.6	342.0	342.5	342.9	343.2	343.2	343.2	343.2	343.2	342.9
150°	350.7	351.2	351.7	352.0	352.5	352.7	352.7	352.7	352.7	352.7	352.6
152.5°	360.1	360.4	360.8	361.2	361.6	361.7	361.7	361.5	361.4	361.3	361.2
155°	372.7	373.2	373.7	374.3	374.8	374.9	374.6	374.3	374.0	373.7	373.6
157.5°	384.3	384.7	385.1	385.5	385.9	386.0	385.7	385.3	385.0	384.7	384.7
160°	391.7	392.0	392.3	392.6	392.9	392.9	392.5	392.1	391.7	391.3	391.3
162.5°	397.3	397.8	398.2	398.7	399.2	399.3	398.9	398.5	398.1	397.8	397.8
165°	405.4	405.9	406.4	406.9	407.5	407.5	407.0	406.6	406.1	405.7	405.7
167.5°	412.3	412.6	413.1	413.6	414.1	414.1	413.6	413.1	412.6	412.3	412.2
170°	415.7	416.2	416.7	417.3	417.7	417.7	417.3	416.7	416.2	415.7	415.7
172.5°	418.4	418.9	419.4	419.9	420.5	420.5	420.0	419.5	419.1	418.6	418.6
175°	421.3	421.9	422.4	422.9	423.4	423.5	423.0	422.5	422.2	421.7	421.7
177.5°	422.9	423.4	423.8	424.2	424.6	424.6	424.2	424.0	423.6	423.2	423.2
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1190.2	1189.0	1183.6	1177.2	1168.9	1163.4	1159.0	1156.7	1149.6	1140.9	1135.0
5°	1263.8	1249.0	1233.2	1213.9	1196.2	1177.9	1166.6	1153.2	1137.0	1118.7	1105.9
7.5°	1342.6	1313.5	1282.2	1250.0	1218.0	1189.5	1164.2	1142.6	1116.6	1090.4	1072.1
10°	1403.0	1360.5	1316.5	1271.7	1230.7	1192.2	1162.6	1133.5	1102.4	1072.3	1049.6
12.5°	1457.8	1401.9	1351.3	1296.2	1243.8	1197.8	1155.1	1120.9	1083.5	1051.4	1025.5
15°	1527.3	1470.1	1408.8	1324.9	1255.4	1197.1	1145.4	1100.4	1055.1	1015.6	990.4
17.5°	1592.2	1506.1	1423.9	1353.9	1263.5	1190.7	1127.5	1073.7	1024.0	982.1	951.1
20°	1619.1	1535.7	1446.3	1357.1	1268.2	1186.8	1113.2	1054.0	1002.2	954.9	926.2
22.5°	1635.2	1540.8	1446.7	1350.8	1256.4	1171.8	1099.1	1033.9	977.8	932.7	897.4
25°	1654.1	1541.6	1437.9	1343.2	1247.0	1155.2	1068.8	999.8	939.1	891.2	853.7
27.5°	1666.5	1534.2	1411.7	1306.4	1208.8	1117.4	1038.2	965.1	903.4	852.8	812.6
30°	1668.9	1528.2	1391.6	1277.6	1178.4	1094.5	1010.6	940.6	875.4	821.6	784.1
32.5°	1672.1	1513.6	1364.3	1243.2	1141.7	1058.6	982.6	915.7	848.9	796.0	757.7
35°	1659.1	1505.6	1323.0	1183.8	1082.1	1001.7	933.1	871.5	805.9	754.5	715.5
37.5°	1603.0	1473.5	1280.2	1116.9	1010.6	936.1	880.2	826.4	766.3	710.9	674.2
40°	1546.5	1441.9	1247.0	1076.3	965.3	888.7	838.4	794.5	736.2	684.5	645.0
42.5°	1462.4	1398.9	1215.4	1033.6	913.9	840.2	797.8	756.6	705.5	652.9	615.8
45°	1308.2	1316.5	1150.8	965.7	842.8	768.8	728.9	700.2	654.9	611.4	573.4
47.5°	1114.7	1193.2	1074.9	893.3	767.9	698.4	663.5	638.6	607.9	565.3	530.7
50°	988.4	1100.4	1014.1	844.8	721.0	651.9	617.4	597.1	570.4	536.9	503.8
52.5°	871.9	992.3	940.7	790.7	670.1	606.9	573.2	556.5	535.3	503.7	473.8
55°	711.1	833.0	821.1	709.1	593.6	536.9	511.2	492.5	478.2	454.5	430.8
57.5°	575.2	690.8	696.9	618.3	526.3	470.2	448.2	434.0	424.7	406.8	384.9
60°	489.6	595.6	616.3	557.1	478.2	428.9	407.1	395.8	388.3	374.1	357.3
62.5°	418.5	508.8	532.3	489.7	432.0	385.8	368.8	357.9	352.8	340.4	325.6
65°	320.3	395.3	417.9	394.3	364.2	327.2	313.4	304.0	299.5	292.7	281.7
67.5°	240.8	295.5	320.4	303.7	292.8	269.5	260.6	255.6	251.7	246.9	237.9
70°	193.4	233.9	259.6	255.1	246.3	233.9	227.5	224.0	220.1	216.1	208.2
72.5°	155.5	183.4	207.5	209.7	202.5	199.9	194.4	192.8	190.5	185.8	181.4
75°	103.1	122.3	139.1	145.5	148.5	151.0	148.5	148.1	147.5	143.6	141.1
77.5°	67.6	77.9	88.5	99.4	104.2	107.4	108.3	110.1	108.8	106.7	105.5
80°	51.8	54.3	61.6	71.1	78.4	81.4	83.4	84.4	83.9	83.4	81.4
82.5°	37.6	39.7	43.2	49.8	56.0	60.9	62.1	61.9	63.0	63.2	61.6
85°	20.3	20.7	21.7	22.7	26.1	31.6	33.1	34.0	35.1	35.1	32.0
87.5°	7.5	7.0	7.5	7.4	8.4	8.7	10.8	12.7	13.2	11.8	12.0
90°	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4	1.0	1.8	2.5
92.5°	11.7	11.1	10.6	10.1	9.6	9.0	8.6	8.1	8.6	9.0	9.6
95°	23.5	22.9	22.2	21.7	21.2	20.6	20.2	19.7	20.2	20.6	21.2
97.5°	37.7	37.3	36.9	36.5	36.1	35.7	35.3	34.9	35.3	35.7	36.1
100°	48.3	47.9	47.5	47.0	46.7	46.2	45.7	45.3	45.7	46.2	46.7
102.5°	59.8	59.2	58.7	58.3	58.1	57.8	57.6	57.3	57.6	57.8	58.1
105°	77.3	76.6	76.0	75.5	75.4	75.2	75.1	74.9	75.1	75.2	75.4
107.5°	96.5	96.2	96.0	95.9	95.8	95.7	95.6	95.5	95.6	95.7	95.8
110°	109.3	109.1	109.0	108.9	108.7	108.6	108.4	108.3	108.4	108.6	108.7



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	122.1	122.1	122.0	122.0	121.9	121.8	121.7	121.6	121.7	121.8	121.9
115°	142.2	142.3	142.5	142.4	142.2	142.0	141.8	141.6	141.8	142.0	142.2
117.5°	161.8	162.0	162.2	162.3	162.1	162.0	161.8	161.6	161.8	162.0	162.1
120°	175.3	175.7	176.0	176.0	175.5	175.1	174.7	174.2	174.7	175.1	175.5
122.5°	188.2	188.4	188.6	188.6	188.2	187.9	187.6	187.3	187.6	187.9	188.2
125°	207.8	207.9	208.1	208.1	207.8	207.6	207.4	207.2	207.4	207.6	207.8
127.5°	227.2	227.4	227.6	227.4	227.0	226.5	226.0	225.6	226.0	226.5	227.0
130°	240.0	240.2	240.3	240.2	239.6	239.0	238.4	237.8	238.4	239.0	239.6
132.5°	252.3	252.5	252.7	252.4	251.8	251.3	250.7	250.1	250.7	251.3	251.8
135°	270.6	270.7	270.8	270.6	270.1	269.7	269.3	268.8	269.3	269.7	270.1
137.5°	288.2	288.0	287.9	287.6	287.2	286.8	286.5	286.2	286.5	286.8	287.2
140°	299.9	299.9	299.8	299.6	299.3	298.9	298.5	298.1	298.5	298.9	299.3
142.5°	311.0	310.9	310.8	310.5	310.2	309.8	309.4	309.1	309.4	309.8	310.2
145°	327.3	327.1	326.9	326.7	326.5	326.4	326.2	326.1	326.2	326.4	326.5
147.5°	342.7	342.5	342.3	342.0	341.9	341.6	341.3	341.0	341.3	341.6	341.9
150°	352.4	352.3	352.1	352.0	351.9	351.7	351.6	351.4	351.6	351.7	351.9
152.5°	361.1	361.0	360.9	360.8	360.5	360.3	360.1	360.0	360.1	360.3	360.5
155°	373.5	373.5	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
157.5°	384.6	384.6	384.5	384.5	384.6	384.7	384.7	384.8	384.7	384.7	384.6
160°	391.3	391.3	391.3	391.4	391.6	391.7	391.9	392.0	391.9	391.7	391.6
162.5°	397.7	397.6	397.6	397.6	397.8	398.0	398.2	398.4	398.2	398.0	397.8
165°	405.7	405.7	405.7	405.8	406.0	406.2	406.5	406.7	406.5	406.2	406.0
167.5°	412.1	412.1	412.0	412.1	412.4	412.7	413.0	413.3	413.0	412.7	412.4
170°	415.7	415.7	415.7	415.8	416.1	416.4	416.7	417.0	416.7	416.4	416.1
172.5°	418.6	418.6	418.6	418.8	419.1	419.3	419.6	420.0	419.6	419.3	419.1
175°	421.7	421.7	421.7	421.9	422.2	422.4	422.7	423.0	422.7	422.4	422.2
177.5°	423.2	423.2	423.2	423.3	423.6	423.8	424.0	424.2	424.0	423.8	423.6
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1133.0	1127.8	1124.4	1116.4	1111.3	1105.8	1100.2	1103.8	1103.4	1103.0	1103.0
5°	1095.0	1083.6	1073.3	1060.0	1051.6	1041.2	1033.3	1032.4	1034.3	1027.4	1023.4
7.5°	1057.3	1041.8	1027.1	1012.4	996.8	984.4	976.6	972.9	967.9	963.7	959.2
10°	1030.9	1012.6	998.2	980.1	963.3	948.5	939.1	932.6	929.2	925.8	919.4
12.5°	1003.6	985.7	967.5	946.9	930.9	913.7	906.7	899.5	892.9	889.0	880.2
15°	963.7	940.6	921.3	899.6	881.8	865.1	855.2	840.8	838.9	834.0	825.1
17.5°	923.8	898.6	872.0	856.0	835.9	818.5	803.4	798.6	784.5	779.2	771.5
20°	892.2	869.0	848.8	827.6	798.4	782.1	770.3	763.9	752.5	745.6	740.6
22.5°	865.0	841.4	817.9	793.2	769.2	750.9	742.3	732.3	726.1	716.4	711.1
25°	826.0	800.4	772.3	745.6	728.4	714.5	700.7	691.8	683.0	678.5	668.6
27.5°	780.9	754.0	727.7	707.6	686.4	672.7	660.2	652.2	641.6	634.1	628.7
30°	756.0	724.4	701.7	683.4	656.3	643.5	634.1	624.2	616.3	608.4	603.0
32.5°	727.2	698.3	676.8	654.2	633.4	619.4	607.3	598.6	591.8	584.4	578.9
35°	681.9	657.8	635.6	612.8	597.6	583.2	569.0	561.6	555.2	548.3	543.3
37.5°	641.1	618.5	597.4	575.9	556.9	545.3	533.8	528.1	519.4	514.8	509.7
40°	615.9	593.6	570.9	550.3	530.5	521.6	511.2	502.8	494.9	491.5	486.1
42.5°	588.2	566.0	546.9	524.5	508.4	496.3	486.7	477.6	471.6	466.7	463.5
45°	547.2	527.5	508.8	486.5	471.3	460.9	450.1	441.7	436.2	432.8	427.3
47.5°	507.5	487.8	468.7	449.3	434.5	422.7	411.9	406.0	398.8	394.5	391.0
50°	478.6	460.9	440.6	422.9	408.1	396.2	387.4	379.9	373.5	368.2	365.7
52.5°	452.2	433.3	415.8	399.3	383.6	370.2	362.1	354.3	349.5	343.3	340.4
55°	408.6	390.3	375.5	359.2	343.9	332.6	322.7	315.8	310.9	304.0	300.0
57.5°	367.6	351.3	333.6	319.4	303.7	294.1	285.9	276.5	270.5	265.1	261.3
60°	340.0	321.2	305.9	292.7	278.8	266.5	259.1	251.7	245.2	239.8	236.4
62.5°	311.2	294.8	280.3	265.8	253.2	242.4	233.8	227.6	222.0	218.5	215.1
65°	266.9	254.1	239.3	227.5	215.7	207.7	200.9	195.4	191.4	189.0	186.1
67.5°	226.3	213.9	201.0	189.3	181.4	175.4	170.9	166.2	164.2	161.1	159.1
70°	199.8	187.0	175.7	166.8	158.9	154.5	151.5	148.1	146.1	142.1	140.2
72.5°	171.1	161.7	153.5	146.3	140.0	135.9	132.1	127.9	124.8	120.4	118.5
75°	134.7	126.3	119.9	115.0	111.0	105.6	100.2	95.8	94.3	92.7	92.3
77.5°	99.8	94.4	89.8	85.7	80.8	76.8	75.6	74.6	74.3	73.5	73.5
80°	78.4	73.5	70.0	65.1	62.2	62.2	62.2	61.2	61.6	61.6	61.6
82.5°	58.3	53.8	51.9	50.1	49.6	50.0	50.0	50.1	49.9	50.6	50.2
85°	30.1	30.6	31.6	31.1	31.6	31.6	32.6	32.0	32.6	31.6	32.6
87.5°	11.7	13.1	13.7	14.2	14.8	14.6	15.1	15.2	15.6	15.6	15.7
90°	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6	8.9	9.1	9.4
92.5°	10.1	10.6	11.1	11.7	12.3	12.8	13.0	13.3	13.5	13.8	13.9
95°	21.7	22.2	22.9	23.5	24.0	24.7	25.0	25.3	25.5	25.8	26.0
97.5°	36.5	36.9	37.3	37.7	38.2	38.5	38.9	39.2	39.6	40.0	40.1
100°	47.0	47.5	47.9	48.3	48.6	48.9	49.2	49.4	49.7	49.9	50.0
102.5°	58.3	58.7	59.2	59.8	60.2	60.7	60.9	61.2	61.4	61.5	61.6
105°	75.5	76.0	76.6	77.3	77.9	78.6	78.6	78.6	78.6	78.6	78.7
107.5°	95.9	96.0	96.2	96.5	96.8	97.1	97.3	97.6	97.7	98.0	98.1
110°	108.9	109.0	109.1	109.3	109.4	109.6	109.9	110.2	110.5	110.7	110.8



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	122.0	122.0	122.1	122.1	122.1	122.2	122.4	122.8	123.2	123.6	123.7
115°	142.4	142.5	142.3	142.2	142.0	141.9	141.9	142.0	142.1	142.2	142.2
117.5°	162.3	162.2	162.0	161.8	161.6	161.5	161.5	161.5	161.5	161.5	161.3
120°	176.0	176.0	175.7	175.3	174.9	174.6	174.5	174.4	174.3	174.3	174.1
122.5°	188.6	188.6	188.4	188.2	188.0	187.8	187.7	187.5	187.3	187.1	186.9
125°	208.1	208.1	207.9	207.8	207.6	207.5	207.2	206.9	206.6	206.3	206.0
127.5°	227.4	227.6	227.4	227.2	227.2	227.0	226.6	226.1	225.7	225.3	224.9
130°	240.2	240.3	240.2	240.0	239.7	239.5	239.2	238.9	238.6	238.3	237.9
132.5°	252.4	252.7	252.5	252.3	252.1	252.0	251.7	251.3	250.9	250.6	250.2
135°	270.6	270.8	270.7	270.6	270.5	270.5	270.1	269.8	269.6	269.3	269.1
137.5°	287.6	287.9	288.0	288.2	288.4	288.6	288.3	288.0	287.8	287.4	287.1
140°	299.6	299.8	299.9	299.9	300.0	300.1	300.0	299.9	299.9	299.8	299.5
142.5°	310.5	310.8	310.9	311.0	311.1	311.3	311.2	311.1	311.0	311.0	310.8
145°	326.7	326.9	327.1	327.3	327.5	327.7	327.7	327.6	327.5	327.4	327.3
147.5°	342.0	342.3	342.5	342.7	342.9	343.2	343.2	343.2	343.2	343.2	342.9
150°	352.0	352.1	352.3	352.4	352.6	352.7	352.7	352.7	352.7	352.7	352.5
152.5°	360.8	360.9	361.0	361.1	361.2	361.3	361.4	361.5	361.7	361.7	361.6
155°	373.4	373.4	373.5	373.5	373.6	373.7	374.0	374.3	374.6	374.9	374.8
157.5°	384.5	384.5	384.6	384.6	384.7	384.7	385.0	385.3	385.7	386.0	385.9
160°	391.4	391.3	391.3	391.3	391.3	391.3	391.7	392.1	392.5	392.9	392.9
162.5°	397.6	397.6	397.6	397.7	397.8	397.8	398.1	398.5	398.9	399.3	399.2
165°	405.8	405.7	405.7	405.7	405.7	405.7	406.1	406.6	407.0	407.5	407.5
167.5°	412.1	412.0	412.1	412.1	412.2	412.3	412.6	413.1	413.6	414.1	414.1
170°	415.8	415.7	415.7	415.7	415.7	415.7	416.2	416.7	417.3	417.7	417.7
172.5°	418.8	418.6	418.6	418.6	418.6	418.6	419.1	419.5	420.0	420.5	420.5
175°	421.9	421.7	421.7	421.7	421.7	421.7	422.2	422.5	423.0	423.5	423.4
177.5°	423.3	423.2	423.2	423.2	423.2	423.2	423.6	424.0	424.2	424.6	424.6
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1098.3	1097.9	1098.3	1096.6	1098.3	1097.9	1098.3	1103.0	1103.0	1103.4	1103.8
5°	1022.0	1021.4	1020.0	1015.6	1020.0	1021.4	1022.0	1023.4	1027.4	1034.3	1032.4
7.5°	955.4	954.7	950.4	950.5	950.4	954.7	955.4	959.2	963.7	967.9	972.9
10°	915.9	916.3	910.5	907.0	910.5	916.3	915.9	919.4	925.8	929.2	932.6
12.5°	877.6	875.3	870.5	866.8	870.5	875.3	877.6	880.2	889.0	892.9	899.5
15°	827.1	822.1	810.3	811.2	810.3	822.1	827.1	825.1	834.0	838.9	840.8
17.5°	767.5	763.9	763.6	756.8	763.6	763.9	767.5	771.5	779.2	784.5	798.6
20°	732.8	730.4	731.3	724.4	731.3	730.4	732.8	740.6	745.6	752.5	763.9
22.5°	705.6	703.1	699.0	696.8	699.0	703.1	705.6	711.1	716.4	726.1	732.3
25°	665.7	661.8	657.8	660.3	657.8	661.8	665.7	668.6	678.5	683.0	691.8
27.5°	625.8	622.8	618.9	618.4	618.9	622.8	625.8	628.7	634.1	641.6	652.2
30°	600.6	597.6	595.6	593.1	595.6	597.6	600.6	603.0	608.4	616.3	624.2
32.5°	574.9	574.3	570.7	570.2	570.7	574.3	574.9	578.9	584.4	591.8	598.6
35°	541.3	538.4	537.3	537.9	537.3	538.4	541.3	543.3	548.3	555.2	561.6
37.5°	509.4	505.5	503.7	502.0	503.7	505.5	509.4	509.7	514.8	519.4	528.1
40°	486.5	482.6	481.6	480.6	481.6	482.6	486.5	486.1	491.5	494.9	502.8
42.5°	460.9	459.3	458.7	456.9	458.7	459.3	460.9	463.5	466.7	471.6	477.6
45°	425.8	425.4	422.4	423.4	422.4	425.4	425.8	427.3	432.8	436.2	441.7
47.5°	389.0	386.8	384.7	386.1	384.7	386.8	389.0	391.0	394.5	398.8	406.0
50°	363.7	362.7	358.3	359.2	358.3	362.7	363.7	365.7	368.2	373.5	379.9
52.5°	338.5	334.7	333.0	332.4	333.0	334.7	338.5	340.4	343.3	349.5	354.3
55°	296.6	292.1	290.1	289.2	290.1	292.1	296.6	300.0	304.0	310.9	315.8
57.5°	255.5	254.3	252.8	253.8	252.8	254.3	255.5	261.3	265.1	270.5	276.5
60°	231.4	231.4	231.4	230.9	231.4	231.4	231.4	236.4	239.8	245.2	251.7
62.5°	212.9	211.7	211.3	212.0	211.3	211.7	212.9	215.1	218.5	222.0	227.6
65°	184.5	184.1	182.1	181.6	182.1	184.1	184.5	186.1	189.0	191.4	195.4
67.5°	157.8	156.0	155.4	154.8	155.4	156.0	157.8	159.1	161.1	164.2	166.2
70°	137.7	136.7	133.7	134.2	133.7	136.7	137.7	140.2	142.1	146.1	148.1
72.5°	115.9	115.0	114.4	113.7	114.4	115.0	115.9	118.5	120.4	124.8	127.9
75°	91.8	91.3	90.8	92.7	90.8	91.3	91.8	92.3	92.7	94.3	95.8
77.5°	73.5	73.5	73.8	73.0	73.8	73.5	73.5	73.5	73.5	74.3	74.6
80°	61.6	61.6	61.2	61.2	61.2	61.6	61.6	61.6	61.6	61.6	61.2
82.5°	49.5	49.9	50.1	49.4	50.1	49.9	49.5	50.2	50.6	49.9	50.1
85°	32.6	32.0	33.1	32.6	33.1	32.0	32.6	32.6	31.6	32.6	32.0
87.5°	16.5	15.7	15.7	16.2	15.7	15.7	16.5	15.7	15.6	15.6	15.2
90°	9.5	9.7	9.8	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6
92.5°	13.8	13.7	13.6	13.5	13.6	13.7	13.8	13.9	13.8	13.5	13.3
95°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	25.8	25.5	25.3
97.5°	40.1	40.1	40.0	40.0	40.0	40.1	40.1	40.1	40.0	39.6	39.2
100°	50.1	50.3	50.5	50.6	50.5	50.3	50.1	50.0	49.9	49.7	49.4
102.5°	61.6	61.6	61.5	61.5	61.5	61.6	61.6	61.6	61.5	61.4	61.2
105°	78.8	79.0	79.2	79.3	79.2	79.0	78.8	78.7	78.6	78.6	78.6
107.5°	98.0	97.9	97.8	97.7	97.8	97.9	98.0	98.1	98.0	97.7	97.6
110°	110.7	110.6	110.4	110.3	110.4	110.6	110.7	110.8	110.7	110.5	110.2



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	123.7	123.7	123.6	123.6	123.6	123.7	123.7	123.7	123.6	123.2	122.8
115°	142.1	142.0	141.9	141.9	141.9	142.0	142.1	142.2	142.2	142.1	142.0
117.5°	161.1	160.9	160.7	160.5	160.7	160.9	161.1	161.3	161.5	161.5	161.5
120°	174.0	173.8	173.7	173.5	173.7	173.8	174.0	174.1	174.3	174.3	174.4
122.5°	186.7	186.4	186.2	186.1	186.2	186.4	186.7	186.9	187.1	187.3	187.5
125°	205.8	205.5	205.1	204.8	205.1	205.5	205.8	206.0	206.3	206.6	206.9
127.5°	224.6	224.2	223.9	223.6	223.9	224.2	224.6	224.9	225.3	225.7	226.1
130°	237.4	236.9	236.4	235.8	236.4	236.9	237.4	237.9	238.3	238.6	238.9
132.5°	249.8	249.4	249.0	248.6	249.0	249.4	249.8	250.2	250.6	250.9	251.3
135°	268.9	268.7	268.6	268.4	268.6	268.7	268.9	269.1	269.3	269.6	269.8
137.5°	286.8	286.5	286.3	286.0	286.3	286.5	286.8	287.1	287.4	287.8	288.0
140°	299.0	298.5	297.9	297.5	297.9	298.5	299.0	299.5	299.8	299.9	299.9
142.5°	310.4	310.0	309.5	309.2	309.5	310.0	310.4	310.8	311.0	311.0	311.1
145°	327.0	326.7	326.4	326.1	326.4	326.7	327.0	327.3	327.4	327.5	327.6
147.5°	342.5	342.0	341.6	341.1	341.6	342.0	342.5	342.9	343.2	343.2	343.2
150°	352.0	351.7	351.2	350.7	351.2	351.7	352.0	352.5	352.7	352.7	352.7
152.5°	361.2	360.8	360.4	360.1	360.4	360.8	361.2	361.6	361.7	361.7	361.5
155°	374.3	373.7	373.2	372.7	373.2	373.7	374.3	374.8	374.9	374.6	374.3
157.5°	385.5	385.1	384.7	384.3	384.7	385.1	385.5	385.9	386.0	385.7	385.3
160°	392.6	392.3	392.0	391.7	392.0	392.3	392.6	392.9	392.9	392.5	392.1
162.5°	398.7	398.2	397.8	397.3	397.8	398.2	398.7	399.2	399.3	398.9	398.5
165°	406.9	406.4	405.9	405.4	405.9	406.4	406.9	407.5	407.5	407.0	406.6
167.5°	413.6	413.1	412.6	412.3	412.6	413.1	413.6	414.1	414.1	413.6	413.1
170°	417.3	416.7	416.2	415.7	416.2	416.7	417.3	417.7	417.7	417.3	416.7
172.5°	419.9	419.4	418.9	418.4	418.9	419.4	419.9	420.5	420.5	420.0	419.5
175°	422.9	422.4	421.9	421.3	421.9	422.4	422.9	423.4	423.5	423.0	422.5
177.5°	424.2	423.8	423.4	422.9	423.4	423.8	424.2	424.6	424.6	424.2	424.0
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1100.2	1105.8	1111.3	1116.4	1124.4	1127.8	1133.0	1135.0	1140.9	1149.6	1156.7
5°	1033.3	1041.2	1051.6	1060.0	1073.3	1083.6	1095.0	1105.9	1118.7	1137.0	1153.2
7.5°	976.6	984.4	996.8	1012.4	1027.1	1041.8	1057.3	1072.1	1090.4	1116.6	1142.6
10°	939.1	948.5	963.3	980.1	998.2	1012.6	1030.9	1049.6	1072.3	1102.4	1133.5
12.5°	906.7	913.7	930.9	946.9	967.5	985.7	1003.6	1025.5	1051.4	1083.5	1120.9
15°	855.2	865.1	881.8	899.6	921.3	940.6	963.7	990.4	1015.6	1055.1	1100.4
17.5°	803.4	818.5	835.9	856.0	872.0	898.6	923.8	951.1	982.1	1024.0	1073.7
20°	770.3	782.1	798.4	827.6	848.8	869.0	892.2	926.2	954.9	1002.2	1054.0
22.5°	742.3	750.9	769.2	793.2	817.9	841.4	865.0	897.4	932.7	977.8	1033.9
25°	700.7	714.5	728.4	745.6	772.3	800.4	826.0	853.7	891.2	939.1	999.8
27.5°	660.2	672.7	686.4	707.6	727.7	754.0	780.9	812.6	852.8	903.4	965.1
30°	634.1	643.5	656.3	683.4	701.7	724.4	756.0	784.1	821.6	875.4	940.6
32.5°	607.3	619.4	633.4	654.2	676.8	698.3	727.2	757.7	796.0	848.9	915.7
35°	569.0	583.2	597.6	612.8	635.6	657.8	681.9	715.5	754.5	805.9	871.5
37.5°	533.8	545.3	556.9	575.9	597.4	618.5	641.1	674.2	710.9	766.3	826.4
40°	511.2	521.6	530.5	550.3	570.9	593.6	615.9	645.0	684.5	736.2	794.5
42.5°	486.7	496.3	508.4	524.5	546.9	566.0	588.2	615.8	652.9	705.5	756.6
45°	450.1	460.9	471.3	486.5	508.8	527.5	547.2	573.4	611.4	654.9	700.2
47.5°	411.9	422.7	434.5	449.3	468.7	487.8	507.5	530.7	565.3	607.9	638.6
50°	387.4	396.2	408.1	422.9	440.6	460.9	478.6	503.8	536.9	570.4	597.1
52.5°	362.1	370.2	383.6	399.3	415.8	433.3	452.2	473.8	503.7	535.3	556.5
55°	322.7	332.6	343.9	359.2	375.5	390.3	408.6	430.8	454.5	478.2	492.5
57.5°	285.9	294.1	303.7	319.4	333.6	351.3	367.6	384.9	406.8	424.7	434.0
60°	259.1	266.5	278.8	292.7	305.9	321.2	340.0	357.3	374.1	388.3	395.8
62.5°	233.8	242.4	253.2	265.8	280.3	294.8	311.2	325.6	340.4	352.8	357.9
65°	200.9	207.7	215.7	227.5	239.3	254.1	266.9	281.7	292.7	299.5	304.0
67.5°	170.9	175.4	181.4	189.3	201.0	213.9	226.3	237.9	246.9	251.7	255.6
70°	151.5	154.5	158.9	166.8	175.7	187.0	199.8	208.2	216.1	220.1	224.0
72.5°	132.1	135.9	140.0	146.3	153.5	161.7	171.1	181.4	185.8	190.5	192.8
75°	100.2	105.6	111.0	115.0	119.9	126.3	134.7	141.1	143.6	147.5	148.1
77.5°	75.6	76.8	80.8	85.7	89.8	94.4	99.8	105.5	106.7	108.8	110.1
80°	62.2	62.2	62.2	65.1	70.0	73.5	78.4	81.4	83.4	83.9	84.4
82.5°	50.0	50.0	49.6	50.1	51.9	53.8	58.3	61.6	63.2	63.0	61.9
85°	32.6	31.6	31.6	31.1	31.6	30.6	30.1	32.0	35.1	35.1	34.0
87.5°	15.1	14.6	14.8	14.2	13.7	13.1	11.7	12.0	11.8	13.2	12.7
90°	8.3	8.0	7.1	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4
92.5°	13.0	12.8	12.3	11.7	11.1	10.6	10.1	9.6	9.0	8.6	8.1
95°	25.0	24.7	24.0	23.5	22.9	22.2	21.7	21.2	20.6	20.2	19.7
97.5°	38.9	38.5	38.2	37.7	37.3	36.9	36.5	36.1	35.7	35.3	34.9
100°	49.2	48.9	48.6	48.3	47.9	47.5	47.0	46.7	46.2	45.7	45.3
102.5°	60.9	60.7	60.2	59.8	59.2	58.7	58.3	58.1	57.8	57.6	57.3
105°	78.6	78.6	77.9	77.3	76.6	76.0	75.5	75.4	75.2	75.1	74.9
107.5°	97.3	97.1	96.8	96.5	96.2	96.0	95.9	95.8	95.7	95.6	95.5
110°	109.9	109.6	109.4	109.3	109.1	109.0	108.9	108.7	108.6	108.4	108.3



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	122.4	122.2	122.1	122.1	122.1	122.0	122.0	121.9	121.8	121.7	121.6
115°	141.9	141.9	142.0	142.2	142.3	142.5	142.4	142.2	142.0	141.8	141.6
117.5°	161.5	161.5	161.6	161.8	162.0	162.2	162.3	162.1	162.0	161.8	161.6
120°	174.5	174.6	174.9	175.3	175.7	176.0	176.0	175.5	175.1	174.7	174.2
122.5°	187.7	187.8	188.0	188.2	188.4	188.6	188.6	188.2	187.9	187.6	187.3
125°	207.2	207.5	207.6	207.8	207.9	208.1	208.1	207.8	207.6	207.4	207.2
127.5°	226.6	227.0	227.2	227.2	227.4	227.6	227.4	227.0	226.5	226.0	225.6
130°	239.2	239.5	239.7	240.0	240.2	240.3	240.2	239.6	239.0	238.4	237.8
132.5°	251.7	252.0	252.1	252.3	252.5	252.7	252.4	251.8	251.3	250.7	250.1
135°	270.1	270.5	270.5	270.6	270.7	270.8	270.6	270.1	269.7	269.3	268.8
137.5°	288.3	288.6	288.4	288.2	288.0	287.9	287.6	287.2	286.8	286.5	286.2
140°	300.0	300.1	300.0	299.9	299.9	299.8	299.6	299.3	298.9	298.5	298.1
142.5°	311.2	311.3	311.1	311.0	310.9	310.8	310.5	310.2	309.8	309.4	309.1
145°	327.7	327.7	327.5	327.3	327.1	326.9	326.7	326.5	326.4	326.2	326.1
147.5°	343.2	343.2	342.9	342.7	342.5	342.3	342.0	341.9	341.6	341.3	341.0
150°	352.7	352.7	352.6	352.4	352.3	352.1	352.0	351.9	351.7	351.6	351.4
152.5°	361.4	361.3	361.2	361.1	361.0	360.9	360.8	360.5	360.3	360.1	360.0
155°	374.0	373.7	373.6	373.5	373.5	373.4	373.4	373.4	373.4	373.4	373.4
157.5°	385.0	384.7	384.7	384.6	384.6	384.5	384.5	384.6	384.7	384.7	384.8
160°	391.7	391.3	391.3	391.3	391.3	391.3	391.4	391.6	391.7	391.9	392.0
162.5°	398.1	397.8	397.8	397.7	397.6	397.6	397.6	397.8	398.0	398.2	398.4
165°	406.1	405.7	405.7	405.7	405.7	405.7	405.8	406.0	406.2	406.5	406.7
167.5°	412.6	412.3	412.2	412.1	412.1	412.0	412.1	412.4	412.7	413.0	413.3
170°	416.2	415.7	415.7	415.7	415.7	415.7	415.8	416.1	416.4	416.7	417.0
172.5°	419.1	418.6	418.6	418.6	418.6	418.6	418.8	419.1	419.3	419.6	420.0
175°	422.2	421.7	421.7	421.7	421.7	421.7	421.9	422.2	422.4	422.7	423.0
177.5°	423.6	423.2	423.2	423.2	423.2	423.2	423.3	423.6	423.8	424.0	424.2
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1159.0	1163.4	1168.9	1177.2	1183.6	1189.0	1190.2	1191.8	1195.8	1202.5	1207.6
5°	1166.6	1177.9	1196.2	1213.9	1233.2	1249.0	1263.8	1274.1	1284.0	1304.8	1321.5
7.5°	1164.2	1189.5	1218.0	1250.0	1282.2	1313.5	1342.6	1368.5	1394.3	1424.6	1459.0
10°	1162.6	1192.2	1230.7	1271.7	1316.5	1360.5	1403.0	1436.0	1474.5	1509.0	1552.9
12.5°	1155.1	1197.8	1243.8	1296.2	1351.3	1401.9	1457.8	1503.5	1547.6	1597.4	1648.5
15°	1145.4	1197.1	1255.4	1324.9	1408.8	1470.1	1527.3	1606.8	1661.0	1715.3	1788.3
17.5°	1127.5	1190.7	1263.5	1353.9	1423.9	1506.1	1592.2	1655.0	1728.2	1804.6	1870.8
20°	1113.2	1186.8	1268.2	1357.1	1446.3	1535.7	1619.1	1694.0	1769.6	1857.9	1912.2
22.5°	1099.1	1171.8	1256.4	1350.8	1446.7	1540.8	1635.2	1723.3	1808.3	1897.4	1966.7
25°	1068.8	1155.2	1247.0	1343.2	1437.9	1541.6	1654.1	1752.3	1857.4	1949.2	2014.9
27.5°	1038.2	1117.4	1208.8	1306.4	1411.7	1534.2	1666.5	1778.2	1883.5	1949.2	1969.8
30°	1010.6	1094.5	1178.4	1277.6	1391.6	1528.2	1668.9	1796.7	1883.1	1911.7	1890.5
32.5°	982.6	1058.6	1141.7	1243.2	1364.3	1513.6	1672.1	1785.6	1837.7	1815.8	1729.4
35°	933.1	1001.7	1082.1	1183.8	1323.0	1505.6	1659.1	1736.0	1723.2	1599.8	1437.0
37.5°	880.2	936.1	1010.6	1116.9	1280.2	1473.5	1603.0	1614.3	1503.3	1313.9	1125.8
40°	838.4	888.7	965.3	1076.3	1247.0	1441.9	1546.5	1500.6	1328.4	1117.7	960.8
42.5°	797.8	840.2	913.9	1033.6	1215.4	1398.9	1462.4	1362.4	1163.8	964.5	821.8
45°	728.9	768.8	842.8	965.7	1150.8	1316.5	1308.2	1134.4	935.7	775.2	656.8
47.5°	663.5	698.4	767.9	893.3	1074.9	1193.2	1114.7	929.9	761.2	632.5	548.1
50°	617.4	651.9	721.0	844.8	1014.1	1100.4	988.4	810.3	655.8	549.2	482.1
52.5°	573.2	606.9	670.1	790.7	940.7	992.3	871.9	706.8	578.1	486.1	428.4
55°	511.2	536.9	593.6	709.1	821.1	833.0	711.1	572.9	466.8	402.7	363.2
57.5°	448.2	470.2	526.3	618.3	696.9	690.8	575.2	455.6	384.2	336.6	307.9
60°	407.1	428.9	478.2	557.1	616.3	595.6	489.6	393.3	332.1	297.1	274.4
62.5°	368.8	385.8	432.0	489.7	532.3	508.8	418.5	338.8	290.3	260.7	242.8
65°	313.4	327.2	364.2	394.3	417.9	395.3	320.3	264.9	230.0	209.2	196.9
67.5°	260.6	269.5	292.8	303.7	320.4	295.5	240.8	203.8	183.9	166.4	157.8
70°	227.5	233.9	246.3	255.1	259.6	233.9	193.4	166.3	149.5	137.1	131.8
72.5°	194.4	199.9	202.5	209.7	207.5	183.4	155.5	133.9	121.9	113.5	106.5
75°	148.5	151.0	148.5	145.5	139.1	122.3	103.1	92.3	83.4	79.5	77.0
77.5°	108.3	107.4	104.2	99.4	88.5	77.9	67.6	64.0	60.1	58.1	57.1
80°	83.4	81.4	78.4	71.1	61.6	54.3	51.8	49.4	47.9	45.4	44.9
82.5°	62.1	60.9	56.0	49.8	43.2	39.7	37.6	36.8	35.3	33.9	33.8
85°	33.1	31.6	26.1	22.7	21.7	20.7	20.3	20.3	18.3	17.7	17.7
87.5°	10.8	8.7	8.4	7.4	7.5	7.0	7.5	7.0	6.7	7.2	6.4
90°	1.0	1.8	2.5	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6
92.5°	8.6	9.0	9.6	10.1	10.6	11.1	11.7	12.3	12.8	13.0	13.3
95°	20.2	20.6	21.2	21.7	22.2	22.9	23.5	24.0	24.7	25.0	25.3
97.5°	35.3	35.7	36.1	36.5	36.9	37.3	37.7	38.2	38.5	38.9	39.2
100°	45.7	46.2	46.7	47.0	47.5	47.9	48.3	48.6	48.9	49.2	49.4
102.5°	57.6	57.8	58.1	58.3	58.7	59.2	59.8	60.2	60.7	60.9	61.2
105°	75.1	75.2	75.4	75.5	76.0	76.6	77.3	77.9	78.6	78.6	78.6
107.5°	95.6	95.7	95.8	95.9	96.0	96.2	96.5	96.8	97.1	97.3	97.6
110°	108.4	108.6	108.7	108.9	109.0	109.1	109.3	109.4	109.6	109.9	110.2



TEST NUMBER: P332301-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	121.7	121.8	121.9	122.0	122.0	122.1	122.1	122.1	122.2	122.4	122.8
115°	141.8	142.0	142.2	142.4	142.5	142.3	142.2	142.0	141.9	141.9	142.0
117.5°	161.8	162.0	162.1	162.3	162.2	162.0	161.8	161.6	161.5	161.5	161.5
120°	174.7	175.1	175.5	176.0	176.0	175.7	175.3	174.9	174.6	174.5	174.4
122.5°	187.6	187.9	188.2	188.6	188.6	188.4	188.2	188.0	187.8	187.7	187.5
125°	207.4	207.6	207.8	208.1	208.1	207.9	207.8	207.6	207.5	207.2	206.9
127.5°	226.0	226.5	227.0	227.4	227.6	227.4	227.2	227.2	227.0	226.6	226.1
130°	238.4	239.0	239.6	240.2	240.3	240.2	240.0	239.7	239.5	239.2	238.9
132.5°	250.7	251.3	251.8	252.4	252.7	252.5	252.3	252.1	252.0	251.7	251.3
135°	269.3	269.7	270.1	270.6	270.8	270.7	270.6	270.5	270.5	270.1	269.8
137.5°	286.5	286.8	287.2	287.6	287.9	288.0	288.2	288.4	288.6	288.3	288.0
140°	298.5	298.9	299.3	299.6	299.8	299.9	299.9	300.0	300.1	300.0	299.9
142.5°	309.4	309.8	310.2	310.5	310.8	310.9	311.0	311.1	311.3	311.2	311.1
145°	326.2	326.4	326.5	326.7	326.9	327.1	327.3	327.5	327.7	327.7	327.6
147.5°	341.3	341.6	341.9	342.0	342.3	342.5	342.7	342.9	343.2	343.2	343.2
150°	351.6	351.7	351.9	352.0	352.1	352.3	352.4	352.6	352.7	352.7	352.7
152.5°	360.1	360.3	360.5	360.8	360.9	361.0	361.1	361.2	361.3	361.4	361.5
155°	373.4	373.4	373.4	373.4	373.4	373.5	373.5	373.6	373.7	374.0	374.3
157.5°	384.7	384.7	384.6	384.5	384.5	384.6	384.6	384.7	384.7	385.0	385.3
160°	391.9	391.7	391.6	391.4	391.3	391.3	391.3	391.3	391.3	391.7	392.1
162.5°	398.2	398.0	397.8	397.6	397.6	397.6	397.7	397.8	397.8	398.1	398.5
165°	406.5	406.2	406.0	405.8	405.7	405.7	405.7	405.7	405.7	406.1	406.6
167.5°	413.0	412.7	412.4	412.1	412.0	412.1	412.1	412.2	412.3	412.6	413.1
170°	416.7	416.4	416.1	415.8	415.7	415.7	415.7	415.7	415.7	416.2	416.7
172.5°	419.6	419.3	419.1	418.8	418.6	418.6	418.6	418.6	418.6	419.1	419.5
175°	422.7	422.4	422.2	421.9	421.7	421.7	421.7	421.7	421.7	422.2	422.5
177.5°	424.0	423.8	423.6	423.3	423.2	423.2	423.2	423.2	423.2	423.6	424.0
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1215.9	1215.9	1217.5	1223.4	1224.2	1229.4	1227.8
5°	1336.3	1345.7	1349.2	1364.0	1372.8	1376.8	1368.9
7.5°	1483.6	1510.0	1522.6	1538.0	1551.8	1555.9	1545.1
10°	1590.9	1618.5	1641.8	1656.0	1669.4	1678.3	1689.6
12.5°	1694.8	1728.7	1750.8	1770.9	1784.7	1795.9	1797.8
15°	1807.6	1858.9	1897.9	1926.5	1940.8	1948.2	1945.2
17.5°	1921.4	1969.0	1996.7	2025.9	2045.7	2046.7	2047.3
20°	1985.7	2032.1	2064.2	2085.8	2108.1	2107.1	2112.0
22.5°	2028.7	2065.3	2089.8	2105.6	2113.3	2109.5	2110.4
25°	2048.9	2059.7	2055.3	2030.1	2023.7	2000.5	2004.5
27.5°	1945.0	1893.8	1840.6	1772.4	1718.4	1675.5	1677.6
30°	1804.1	1713.4	1609.7	1522.9	1444.9	1423.1	1376.8
32.5°	1607.1	1470.9	1349.5	1268.6	1201.6	1183.6	1143.1
35°	1273.2	1140.9	1016.1	941.0	911.4	870.0	869.5
37.5°	989.6	873.2	807.1	750.8	721.3	696.3	693.8
40°	832.5	741.7	691.8	651.4	622.3	603.5	599.1
42.5°	722.7	649.3	602.7	577.6	555.2	545.4	538.3
45°	590.2	540.8	508.3	485.6	475.2	467.8	463.8
47.5°	493.7	460.6	438.4	423.3	414.9	407.1	409.2
50°	441.2	414.1	397.8	383.4	377.0	371.6	372.1
52.5°	398.9	374.6	361.4	351.1	343.1	339.2	337.3
55°	338.6	323.2	309.9	302.5	298.0	292.7	291.2
57.5°	288.8	276.9	266.1	257.7	256.6	251.4	252.0
60°	255.6	245.7	236.9	232.4	228.9	224.5	226.0
62.5°	228.4	220.1	212.0	208.3	204.9	201.6	202.4
65°	187.0	179.1	174.2	172.2	170.7	169.3	167.8
67.5°	149.0	144.2	141.1	136.9	133.8	133.4	131.9
70°	125.4	118.9	113.5	108.1	106.6	106.1	106.6
72.5°	100.5	96.4	94.9	92.3	92.0	90.7	91.6
75°	75.5	74.0	73.0	71.1	71.1	71.1	71.1
77.5°	55.7	54.8	54.2	53.8	53.3	52.6	52.5
80°	43.5	42.9	41.9	41.9	41.5	41.9	41.5
82.5°	32.8	32.7	31.7	31.7	31.2	30.9	31.2
85°	16.8	16.3	17.2	16.3	16.8	15.8	16.8
87.5°	6.5	6.6	6.2	6.2	5.8	6.7	5.9
90°	8.9	9.1	9.4	9.5	9.7	9.8	10.0
92.5°	13.5	13.8	13.9	13.8	13.7	13.6	13.5
95°	25.5	25.8	26.0	26.0	26.0	26.0	26.0
97.5°	39.6	40.0	40.1	40.1	40.1	40.0	40.0
100°	49.7	49.9	50.0	50.1	50.3	50.5	50.6
102.5°	61.4	61.5	61.6	61.6	61.6	61.5	61.5
105°	78.6	78.6	78.7	78.8	79.0	79.2	79.3
107.5°	97.7	98.0	98.1	98.0	97.9	97.8	97.7
110°	110.5	110.7	110.8	110.7	110.6	110.4	110.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.2	123.6	123.7	123.7	123.7	123.6	123.6
115°	142.1	142.2	142.2	142.1	142.0	141.9	141.9
117.5°	161.5	161.5	161.3	161.1	160.9	160.7	160.5
120°	174.3	174.3	174.1	174.0	173.8	173.7	173.5
122.5°	187.3	187.1	186.9	186.7	186.4	186.2	186.1
125°	206.6	206.3	206.0	205.8	205.5	205.1	204.8
127.5°	225.7	225.3	224.9	224.6	224.2	223.9	223.6
130°	238.6	238.3	237.9	237.4	236.9	236.4	235.8
132.5°	250.9	250.6	250.2	249.8	249.4	249.0	248.6
135°	269.6	269.3	269.1	268.9	268.7	268.6	268.4
137.5°	287.8	287.4	287.1	286.8	286.5	286.3	286.0
140°	299.9	299.8	299.5	299.0	298.5	297.9	297.5
142.5°	311.0	311.0	310.8	310.4	310.0	309.5	309.2
145°	327.5	327.4	327.3	327.0	326.7	326.4	326.1
147.5°	343.2	343.2	342.9	342.5	342.0	341.6	341.1
150°	352.7	352.7	352.5	352.0	351.7	351.2	350.7
152.5°	361.7	361.7	361.6	361.2	360.8	360.4	360.1
155°	374.6	374.9	374.8	374.3	373.7	373.2	372.7
157.5°	385.7	386.0	385.9	385.5	385.1	384.7	384.3
160°	392.5	392.9	392.9	392.6	392.3	392.0	391.7
162.5°	398.9	399.3	399.2	398.7	398.2	397.8	397.3
165°	407.0	407.5	407.5	406.9	406.4	405.9	405.4
167.5°	413.6	414.1	414.1	413.6	413.1	412.6	412.3
170°	417.3	417.7	417.7	417.3	416.7	416.2	415.7
172.5°	420.0	420.5	420.5	419.9	419.4	418.9	418.4
175°	423.0	423.5	423.4	422.9	422.4	421.9	421.3
177.5°	424.2	424.6	424.6	424.2	423.8	423.4	422.9
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0

(END OF REPORT)