

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: P332302-830

Luminaire Tested: **S123RDIP-S775D365U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332302-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
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-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4109.3 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

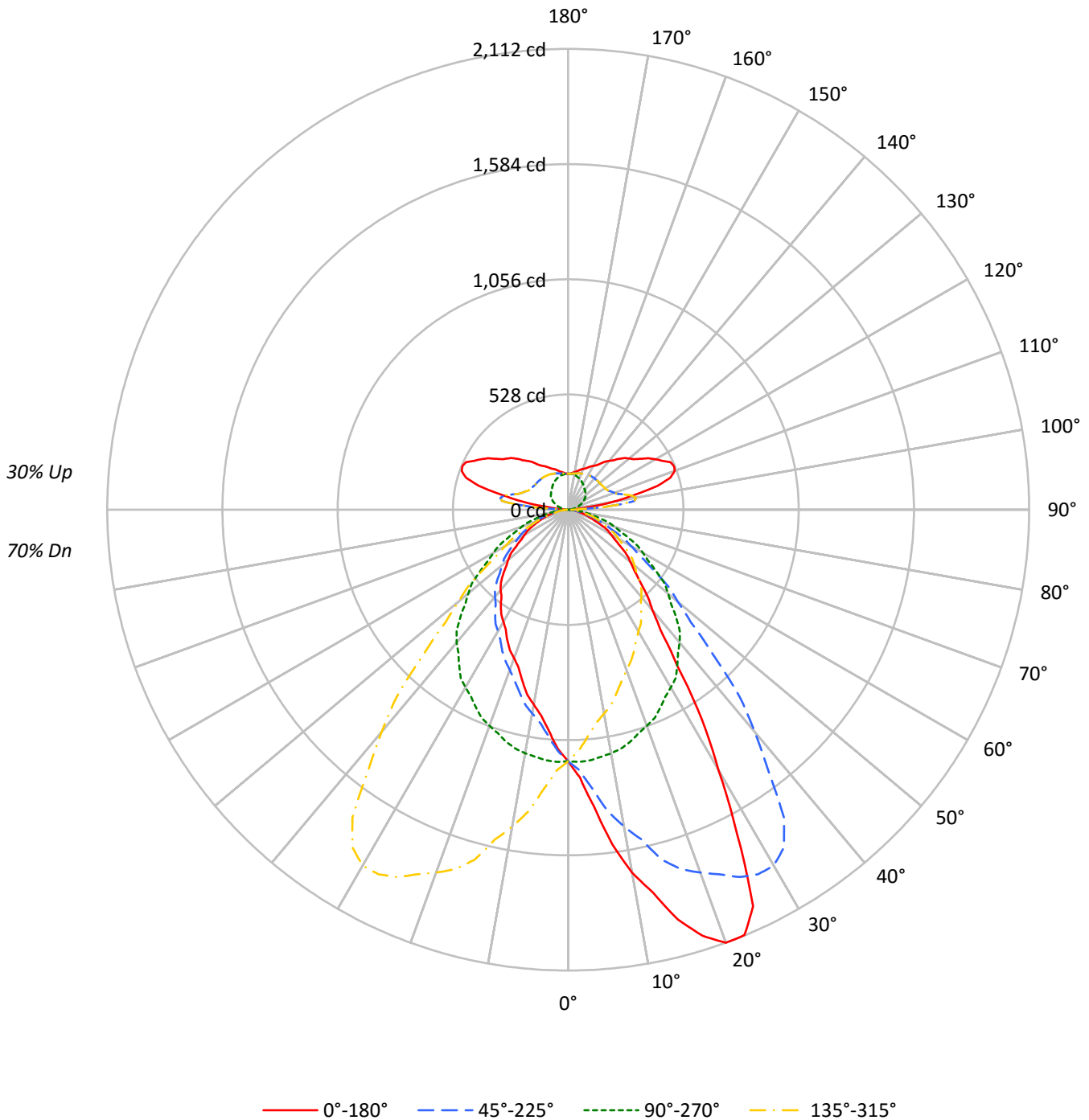
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	94	94	84	84	84	74	74	74	70
1	103	99	95	92	97	94	91	88	84	82	79	75	73	72	67	66	64	61
2	95	87	81	76	89	83	78	73	75	71	67	67	64	61	60	58	56	52
3	87	78	70	65	82	74	67	62	67	62	57	60	56	53	54	51	48	45
4	80	69	62	56	75	66	59	54	60	54	50	54	50	46	49	45	42	39
5	74	62	54	48	70	59	52	47	54	48	43	49	44	40	44	40	37	35
6	68	56	48	42	64	54	46	41	49	43	38	45	40	36	40	36	33	31
7	63	51	43	38	60	49	42	37	45	39	34	41	36	32	37	33	30	28
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	34	30	27	25
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23
10	52	40	32	27	49	38	31	27	35	29	25	32	27	24	30	25	22	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	8.6
20°-30°	556.4	13.5
30°-40°	580.5	14.1
40°-50°	496.8	12.1
50°-60°	378.6	9.2
60°-70°	242.7	5.9
70°-80°	116.7	2.8
80°-90°	32.2	0.8
90°-100°	91.6	2.2
100°-110°	259.3	6.3
110°-120°	255.1	6.2
120°-130°	203.5	5.0
130°-140°	160.4	3.9
140°-150°	119.7	2.9
150°-160°	83.4	2.0
160°-170°	49.0	1.2
170°-180°	16.0	0.4
0°-30°	1023.9	24.9
0°-40°	1604.4	39.0
0°-60°	2479.8	60.3
0°-90°	2871.4	69.9
90°-120°	605.9	14.7
90°-150°	1089.5	26.5
90°-180°	1238.0	30.1
0°-180°	4109.3	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	1	10	1	10	6
95°	39	11	39	11	39	70
105°	424	39	424	39	424	418
115°	515	68	515	68	515	501
125°	406	95	406	95	406	368
135°	329	111	329	111	329	256
145°	258	127	258	127	258	164
155°	214	144	214	144	214	100
165°	186	158	186	158	186	53
175°	168	164	168	164	168	16
180°	165	165	165	165	165	



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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°	5.8	6.7	5.8	6.2	6.3	6.5	6.5	6.4	7.2	6.8	7.0
90°	9.6	10.0	9.6	9.3	9.6	9.0	8.7	8.3	8.0	8.3	7.4
92.5°	16.0	16.7	16.3	17.3	17.9	19.6	22.2	28.1	38.6	51.2	56.4
95°	38.6	40.0	42.3	45.3	51.7	63.6	81.2	119.9	160.2	197.6	175.9
97.5°	105.2	108.0	117.1	132.1	156.7	196.4	239.4	298.9	327.4	306.1	224.1
100°	208.9	208.5	221.5	245.8	279.5	326.8	365.7	392.7	381.1	315.5	213.2
102.5°	306.3	314.1	324.9	344.1	370.3	400.3	423.0	423.9	383.7	298.1	197.2
105°	423.7	425.4	436.0	448.7	464.0	472.6	466.3	433.0	363.4	267.8	177.6
107.5°	491.3	494.3	497.9	502.2	501.9	490.0	460.8	406.7	327.8	241.0	165.0
110°	519.0	519.6	520.3	517.6	508.3	484.9	443.0	381.7	305.5	225.8	160.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	524.5	524.4	521.9	513.6	496.5	466.6	419.5	356.9	286.0	215.7	157.5
115°	515.3	513.6	506.9	492.3	467.3	431.0	382.0	324.0	262.5	204.8	156.6
117.5°	485.8	483.5	474.0	457.2	431.1	394.3	350.3	300.3	248.3	198.4	157.1
120°	461.3	459.3	451.3	432.6	406.3	372.7	332.7	287.8	240.8	195.5	158.3
122.5°	438.4	435.8	427.1	410.3	386.9	355.6	318.6	278.0	234.7	193.7	160.0
125°	406.3	404.1	395.7	381.1	359.8	333.1	301.1	264.8	226.9	191.1	162.9
127.5°	379.9	377.9	370.3	357.8	338.8	314.5	285.7	253.4	219.9	190.0	166.1
130°	365.0	362.4	355.4	343.4	325.7	303.1	276.2	246.1	216.1	189.2	168.2
132.5°	350.4	348.6	342.3	330.4	313.8	292.2	267.0	239.5	212.7	188.9	169.8
135°	329.4	327.1	321.1	311.1	294.7	275.8	254.1	230.5	208.2	188.5	172.2
137.5°	307.3	305.7	300.7	290.5	276.8	260.3	241.7	222.3	204.2	187.8	173.8
140°	291.8	292.1	286.8	277.5	264.8	250.4	234.5	217.5	201.8	187.6	174.8
142.5°	277.4	277.7	273.0	264.7	253.8	241.4	227.5	213.0	199.7	187.0	175.7
145°	257.5	256.8	254.1	247.1	238.8	229.1	218.5	207.5	196.8	186.2	176.2
147.5°	241.1	240.8	238.3	233.6	227.2	220.4	211.8	203.0	194.1	184.9	176.2
150°	231.5	231.5	229.5	225.8	220.8	214.5	207.5	199.8	192.2	183.9	176.2
152.5°	223.5	223.5	222.3	218.9	215.0	209.7	203.5	196.9	190.0	182.6	175.4
155°	213.5	213.2	212.5	209.8	206.8	202.8	197.8	192.6	186.8	180.2	174.6
157.5°	204.3	204.4	203.9	201.9	199.3	196.1	192.3	187.8	183.2	178.1	173.4
160°	198.5	198.9	198.9	196.8	194.5	192.2	188.9	185.2	180.9	176.5	172.9
162.5°	193.2	193.5	193.5	191.8	190.3	188.2	185.1	182.0	178.4	174.9	171.8
165°	186.2	186.2	186.5	185.2	183.9	182.2	179.8	177.9	175.2	172.6	170.2
167.5°	179.6	179.6	179.8	178.9	178.3	177.1	175.8	174.3	172.1	170.1	168.6
170°	175.5	175.5	175.9	175.2	174.8	174.2	172.9	171.8	170.2	168.5	167.6
172.5°	171.8	172.1	172.7	172.0	171.9	171.5	170.5	169.8	168.3	167.2	166.7
175°	167.6	167.9	168.2	167.9	167.9	167.9	167.2	166.8	166.2	165.5	165.5
177.5°	165.0	165.0	165.6	165.3	165.6	165.6	165.3	165.0	164.9	164.6	164.9
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



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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	8.5	8.7	10.9	12.7	13.3	11.9	12.1
90°	6.3	5.4	4.3	3.7	3.0	2.0	1.3	0.7	1.3	2.0	3.0
92.5°	42.3	28.0	19.2	14.3	11.5	9.0	6.1	4.1	6.1	9.0	11.5
95°	121.2	71.6	43.3	30.3	21.7	16.0	12.3	11.3	12.3	16.0	21.7
97.5°	133.0	77.1	50.0	36.0	27.4	22.5	19.6	19.3	19.6	22.5	27.4
100°	125.5	76.3	53.0	40.0	32.0	27.3	25.0	24.7	25.0	27.3	32.0
102.5°	119.1	77.4	56.5	44.5	37.3	32.9	30.8	30.3	30.8	32.9	37.3
105°	114.6	80.3	62.3	51.9	45.6	41.7	39.7	38.6	39.7	41.7	45.6
107.5°	114.2	85.8	69.9	60.3	54.4	50.5	48.5	47.6	48.5	50.5	54.4
110°	115.6	90.3	75.3	66.0	60.3	56.6	55.0	53.9	55.0	56.6	60.3





TEST NUMBER: P332302-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	118.3	94.8	80.9	71.8	66.2	62.5	60.8	59.9	60.8	62.5	66.2
115°	122.5	102.3	89.6	80.6	74.9	71.6	69.7	68.2	69.7	71.6	74.9
117.5°	128.3	110.2	97.6	89.4	83.0	79.9	78.2	76.7	78.2	79.9	83.0
120°	132.5	115.3	103.2	94.9	88.6	85.3	83.6	82.6	83.6	85.3	88.6
122.5°	136.6	120.6	108.9	100.0	94.0	90.3	88.7	87.7	88.7	90.3	94.0
125°	142.9	128.3	116.6	107.5	101.2	97.6	95.6	94.9	95.6	97.6	101.2
127.5°	148.1	134.9	123.7	114.6	107.6	104.0	101.4	100.5	101.4	104.0	107.6
130°	151.6	138.9	127.9	118.9	111.9	107.9	104.9	104.0	104.9	107.9	111.9
132.5°	154.8	142.3	131.7	122.9	115.9	111.1	107.8	106.6	107.8	111.1	115.9
135°	158.9	147.5	137.2	128.3	121.2	116.2	112.5	111.2	112.5	116.2	121.2
137.5°	161.9	151.2	141.2	132.9	125.9	120.6	117.1	115.6	117.1	120.6	125.9
140°	163.5	153.5	143.9	135.5	128.9	123.6	120.3	118.6	120.3	123.6	128.9
142.5°	165.1	155.4	146.0	138.3	131.6	126.8	123.2	121.8	123.2	126.8	131.6
145°	166.8	157.9	149.2	141.6	135.9	130.9	127.9	126.9	127.9	130.9	135.9
147.5°	168.0	159.9	151.9	145.4	140.0	135.6	132.7	132.1	132.7	135.6	140.0
150°	168.2	161.2	153.5	147.5	142.9	138.6	135.9	135.5	135.9	138.6	142.9
152.5°	168.7	162.0	155.4	149.7	145.5	141.8	139.1	139.0	139.1	141.8	145.5
155°	168.9	163.5	157.9	153.3	149.6	146.2	144.2	144.2	144.2	146.2	149.6
157.5°	169.2	164.4	159.9	156.3	153.2	150.2	148.6	148.4	148.6	150.2	153.2
160°	169.2	165.2	161.2	157.9	155.5	152.9	151.6	151.6	151.6	152.9	155.5
162.5°	168.9	165.5	162.0	159.2	157.1	155.0	153.9	153.9	153.9	155.0	157.1
165°	168.2	165.9	163.2	160.9	159.6	157.9	157.2	157.5	157.2	157.9	159.6
167.5°	167.7	165.8	163.9	162.4	161.5	160.2	159.9	160.2	159.9	160.2	161.5
170°	166.8	165.5	163.9	163.2	162.5	161.6	161.2	161.8	161.2	161.6	162.5
172.5°	166.6	165.5	164.1	163.7	163.3	162.6	162.5	163.0	162.5	162.6	163.3
175°	165.9	165.2	164.6	164.2	164.2	163.5	163.9	164.2	163.9	163.5	164.2
177.5°	165.3	164.9	164.6	164.6	164.6	164.3	164.6	164.9	164.6	164.3	164.6
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332302-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A4

**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°	11.8	13.1	13.7	14.3	14.9	14.7	15.0	15.1	15.6	15.6	15.7
90°	3.7	4.3	5.4	6.3	7.4	8.3	8.0	8.3	8.7	9.0	9.6
92.5°	14.3	19.2	28.0	42.3	56.4	51.2	38.6	28.1	22.2	19.6	17.9
95°	30.3	43.3	71.6	121.2	175.9	197.6	160.2	119.9	81.2	63.6	51.7
97.5°	36.0	50.0	77.1	133.0	224.1	306.1	327.4	298.9	239.4	196.4	156.7
100°	40.0	53.0	76.3	125.5	213.2	315.5	381.1	392.7	365.7	326.8	279.5
102.5°	44.5	56.5	77.4	119.1	197.2	298.1	383.7	423.9	423.0	400.3	370.3
105°	51.9	62.3	80.3	114.6	177.6	267.8	363.4	433.0	466.3	472.6	464.0
107.5°	60.3	69.9	85.8	114.2	165.0	241.0	327.8	406.7	460.8	490.0	501.9
110°	66.0	75.3	90.3	115.6	160.2	225.8	305.5	381.7	443.0	484.9	508.3



TEST NUMBER: P332302-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	71.8	80.9	94.8	118.3	157.5	215.7	286.0	356.9	419.5	466.6	496.5
115°	80.6	89.6	102.3	122.5	156.6	204.8	262.5	324.0	382.0	431.0	467.3
117.5°	89.4	97.6	110.2	128.3	157.1	198.4	248.3	300.3	350.3	394.3	431.1
120°	94.9	103.2	115.3	132.5	158.3	195.5	240.8	287.8	332.7	372.7	406.3
122.5°	100.0	108.9	120.6	136.6	160.0	193.7	234.7	278.0	318.6	355.6	386.9
125°	107.5	116.6	128.3	142.9	162.9	191.1	226.9	264.8	301.1	333.1	359.8
127.5°	114.6	123.7	134.9	148.1	166.1	190.0	219.9	253.4	285.7	314.5	338.8
130°	118.9	127.9	138.9	151.6	168.2	189.2	216.1	246.1	276.2	303.1	325.7
132.5°	122.9	131.7	142.3	154.8	169.8	188.9	212.7	239.5	267.0	292.2	313.8
135°	128.3	137.2	147.5	158.9	172.2	188.5	208.2	230.5	254.1	275.8	294.7
137.5°	132.9	141.2	151.2	161.9	173.8	187.8	204.2	222.3	241.7	260.3	276.8
140°	135.5	143.9	153.5	163.5	174.8	187.6	201.8	217.5	234.5	250.4	264.8
142.5°	138.3	146.0	155.4	165.1	175.7	187.0	199.7	213.0	227.5	241.4	253.8
145°	141.6	149.2	157.9	166.8	176.2	186.2	196.8	207.5	218.5	229.1	238.8
147.5°	145.4	151.9	159.9	168.0	176.2	184.9	194.1	203.0	211.8	220.4	227.2
150°	147.5	153.5	161.2	168.2	176.2	183.9	192.2	199.8	207.5	214.5	220.8
152.5°	149.7	155.4	162.0	168.7	175.4	182.6	190.0	196.9	203.5	209.7	215.0
155°	153.3	157.9	163.5	168.9	174.6	180.2	186.8	192.6	197.8	202.8	206.8
157.5°	156.3	159.9	164.4	169.2	173.4	178.1	183.2	187.8	192.3	196.1	199.3
160°	157.9	161.2	165.2	169.2	172.9	176.5	180.9	185.2	188.9	192.2	194.5
162.5°	159.2	162.0	165.5	168.9	171.8	174.9	178.4	182.0	185.1	188.2	190.3
165°	160.9	163.2	165.9	168.2	170.2	172.6	175.2	177.9	179.8	182.2	183.9
167.5°	162.4	163.9	165.8	167.7	168.6	170.1	172.1	174.3	175.8	177.1	178.3
170°	163.2	163.9	165.5	166.8	167.6	168.5	170.2	171.8	172.9	174.2	174.8
172.5°	163.7	164.1	165.5	166.6	166.7	167.2	168.3	169.8	170.5	171.5	171.9
175°	164.2	164.6	165.2	165.9	165.5	165.5	166.2	166.8	167.2	167.9	167.9
177.5°	164.6	164.6	164.9	165.3	164.9	164.6	164.9	165.0	165.3	165.6	165.6
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332302-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A4

**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	15.8	16.1	15.8	15.7	16.5	15.7	15.6	15.6	15.1
90°	9.3	9.6	10.0	9.6	10.0	9.6	9.3	9.6	9.0	8.7	8.3
92.5°	17.3	16.3	16.7	16.0	16.7	16.3	17.3	17.9	19.6	22.2	28.1
95°	45.3	42.3	40.0	38.6	40.0	42.3	45.3	51.7	63.6	81.2	119.9
97.5°	132.1	117.1	108.0	105.2	108.0	117.1	132.1	156.7	196.4	239.4	298.9
100°	245.8	221.5	208.5	208.9	208.5	221.5	245.8	279.5	326.8	365.7	392.7
102.5°	344.1	324.9	314.1	306.3	314.1	324.9	344.1	370.3	400.3	423.0	423.9
105°	448.7	436.0	425.4	423.7	425.4	436.0	448.7	464.0	472.6	466.3	433.0
107.5°	502.2	497.9	494.3	491.3	494.3	497.9	502.2	501.9	490.0	460.8	406.7
110°	517.6	520.3	519.6	519.0	519.6	520.3	517.6	508.3	484.9	443.0	381.7



TEST NUMBER: P332302-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	513.6	521.9	524.4	524.5	524.4	521.9	513.6	496.5	466.6	419.5	356.9
115°	492.3	506.9	513.6	515.3	513.6	506.9	492.3	467.3	431.0	382.0	324.0
117.5°	457.2	474.0	483.5	485.8	483.5	474.0	457.2	431.1	394.3	350.3	300.3
120°	432.6	451.3	459.3	461.3	459.3	451.3	432.6	406.3	372.7	332.7	287.8
122.5°	410.3	427.1	435.8	438.4	435.8	427.1	410.3	386.9	355.6	318.6	278.0
125°	381.1	395.7	404.1	406.3	404.1	395.7	381.1	359.8	333.1	301.1	264.8
127.5°	357.8	370.3	377.9	379.9	377.9	370.3	357.8	338.8	314.5	285.7	253.4
130°	343.4	355.4	362.4	365.0	362.4	355.4	343.4	325.7	303.1	276.2	246.1
132.5°	330.4	342.3	348.6	350.4	348.6	342.3	330.4	313.8	292.2	267.0	239.5
135°	311.1	321.1	327.1	329.4	327.1	321.1	311.1	294.7	275.8	254.1	230.5
137.5°	290.5	300.7	305.7	307.3	305.7	300.7	290.5	276.8	260.3	241.7	222.3
140°	277.5	286.8	292.1	291.8	292.1	286.8	277.5	264.8	250.4	234.5	217.5
142.5°	264.7	273.0	277.7	277.4	277.7	273.0	264.7	253.8	241.4	227.5	213.0
145°	247.1	254.1	256.8	257.5	256.8	254.1	247.1	238.8	229.1	218.5	207.5
147.5°	233.6	238.3	240.8	241.1	240.8	238.3	233.6	227.2	220.4	211.8	203.0
150°	225.8	229.5	231.5	231.5	231.5	229.5	225.8	220.8	214.5	207.5	199.8
152.5°	218.9	222.3	223.5	223.5	223.5	222.3	218.9	215.0	209.7	203.5	196.9
155°	209.8	212.5	213.2	213.5	213.2	212.5	209.8	206.8	202.8	197.8	192.6
157.5°	201.9	203.9	204.4	204.3	204.4	203.9	201.9	199.3	196.1	192.3	187.8
160°	196.8	198.9	198.9	198.5	198.9	198.9	196.8	194.5	192.2	188.9	185.2
162.5°	191.8	193.5	193.5	193.2	193.5	193.5	191.8	190.3	188.2	185.1	182.0
165°	185.2	186.5	186.2	186.2	186.2	186.5	185.2	183.9	182.2	179.8	177.9
167.5°	178.9	179.8	179.6	179.6	179.6	179.8	178.9	178.3	177.1	175.8	174.3
170°	175.2	175.9	175.5	175.5	175.5	175.9	175.2	174.8	174.2	172.9	171.8
172.5°	172.0	172.7	172.1	171.8	172.1	172.7	172.0	171.9	171.5	170.5	169.8
175°	167.9	168.2	167.9	167.6	167.9	168.2	167.9	167.9	167.9	167.2	166.8
177.5°	165.3	165.6	165.0	165.0	165.0	165.6	165.3	165.6	165.6	165.3	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332302-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A4

**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°	15.0	14.7	14.9	14.3	13.7	13.1	11.8	12.1	11.9	13.3	12.7
90°	8.0	8.3	7.4	6.3	5.4	4.3	3.7	3.0	2.0	1.3	0.7
92.5°	38.6	51.2	56.4	42.3	28.0	19.2	14.3	11.5	9.0	6.1	4.1
95°	160.2	197.6	175.9	121.2	71.6	43.3	30.3	21.7	16.0	12.3	11.3
97.5°	327.4	306.1	224.1	133.0	77.1	50.0	36.0	27.4	22.5	19.6	19.3
100°	381.1	315.5	213.2	125.5	76.3	53.0	40.0	32.0	27.3	25.0	24.7
102.5°	383.7	298.1	197.2	119.1	77.4	56.5	44.5	37.3	32.9	30.8	30.3
105°	363.4	267.8	177.6	114.6	80.3	62.3	51.9	45.6	41.7	39.7	38.6
107.5°	327.8	241.0	165.0	114.2	85.8	69.9	60.3	54.4	50.5	48.5	47.6
110°	305.5	225.8	160.2	115.6	90.3	75.3	66.0	60.3	56.6	55.0	53.9



TEST NUMBER: P332302-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	286.0	215.7	157.5	118.3	94.8	80.9	71.8	66.2	62.5	60.8	59.9
115°	262.5	204.8	156.6	122.5	102.3	89.6	80.6	74.9	71.6	69.7	68.2
117.5°	248.3	198.4	157.1	128.3	110.2	97.6	89.4	83.0	79.9	78.2	76.7
120°	240.8	195.5	158.3	132.5	115.3	103.2	94.9	88.6	85.3	83.6	82.6
122.5°	234.7	193.7	160.0	136.6	120.6	108.9	100.0	94.0	90.3	88.7	87.7
125°	226.9	191.1	162.9	142.9	128.3	116.6	107.5	101.2	97.6	95.6	94.9
127.5°	219.9	190.0	166.1	148.1	134.9	123.7	114.6	107.6	104.0	101.4	100.5
130°	216.1	189.2	168.2	151.6	138.9	127.9	118.9	111.9	107.9	104.9	104.0
132.5°	212.7	188.9	169.8	154.8	142.3	131.7	122.9	115.9	111.1	107.8	106.6
135°	208.2	188.5	172.2	158.9	147.5	137.2	128.3	121.2	116.2	112.5	111.2
137.5°	204.2	187.8	173.8	161.9	151.2	141.2	132.9	125.9	120.6	117.1	115.6
140°	201.8	187.6	174.8	163.5	153.5	143.9	135.5	128.9	123.6	120.3	118.6
142.5°	199.7	187.0	175.7	165.1	155.4	146.0	138.3	131.6	126.8	123.2	121.8
145°	196.8	186.2	176.2	166.8	157.9	149.2	141.6	135.9	130.9	127.9	126.9
147.5°	194.1	184.9	176.2	168.0	159.9	151.9	145.4	140.0	135.6	132.7	132.1
150°	192.2	183.9	176.2	168.2	161.2	153.5	147.5	142.9	138.6	135.9	135.5
152.5°	190.0	182.6	175.4	168.7	162.0	155.4	149.7	145.5	141.8	139.1	139.0
155°	186.8	180.2	174.6	168.9	163.5	157.9	153.3	149.6	146.2	144.2	144.2
157.5°	183.2	178.1	173.4	169.2	164.4	159.9	156.3	153.2	150.2	148.6	148.4
160°	180.9	176.5	172.9	169.2	165.2	161.2	157.9	155.5	152.9	151.6	151.6
162.5°	178.4	174.9	171.8	168.9	165.5	162.0	159.2	157.1	155.0	153.9	153.9
165°	175.2	172.6	170.2	168.2	165.9	163.2	160.9	159.6	157.9	157.2	157.5
167.5°	172.1	170.1	168.6	167.7	165.8	163.9	162.4	161.5	160.2	159.9	160.2
170°	170.2	168.5	167.6	166.8	165.5	163.9	163.2	162.5	161.6	161.2	161.8
172.5°	168.3	167.2	166.7	166.6	165.5	164.1	163.7	163.3	162.6	162.5	163.0
175°	166.2	165.5	165.5	165.9	165.2	164.6	164.2	164.2	163.5	163.9	164.2
177.5°	164.9	164.6	164.9	165.3	164.9	164.6	164.6	164.6	164.3	164.6	164.9
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P332302-830

CATALOG NUMBER: S123RDIP-S775D365U830-4F0-1E-UDD-A4

**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°	10.9	8.7	8.5	7.4	7.5	7.0	7.5	7.0	6.8	7.2	6.4
90°	1.3	2.0	3.0	3.7	4.3	5.4	6.3	7.4	8.3	8.0	8.3
92.5°	6.1	9.0	11.5	14.3	19.2	28.0	42.3	56.4	51.2	38.6	28.1
95°	12.3	16.0	21.7	30.3	43.3	71.6	121.2	175.9	197.6	160.2	119.9
97.5°	19.6	22.5	27.4	36.0	50.0	77.1	133.0	224.1	306.1	327.4	298.9
100°	25.0	27.3	32.0	40.0	53.0	76.3	125.5	213.2	315.5	381.1	392.7
102.5°	30.8	32.9	37.3	44.5	56.5	77.4	119.1	197.2	298.1	383.7	423.9
105°	39.7	41.7	45.6	51.9	62.3	80.3	114.6	177.6	267.8	363.4	433.0
107.5°	48.5	50.5	54.4	60.3	69.9	85.8	114.2	165.0	241.0	327.8	406.7
110°	55.0	56.6	60.3	66.0	75.3	90.3	115.6	160.2	225.8	305.5	381.7





TEST NUMBER: P332302-830

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.8	62.5	66.2	71.8	80.9	94.8	118.3	157.5	215.7	286.0	356.9
115°	69.7	71.6	74.9	80.6	89.6	102.3	122.5	156.6	204.8	262.5	324.0
117.5°	78.2	79.9	83.0	89.4	97.6	110.2	128.3	157.1	198.4	248.3	300.3
120°	83.6	85.3	88.6	94.9	103.2	115.3	132.5	158.3	195.5	240.8	287.8
122.5°	88.7	90.3	94.0	100.0	108.9	120.6	136.6	160.0	193.7	234.7	278.0
125°	95.6	97.6	101.2	107.5	116.6	128.3	142.9	162.9	191.1	226.9	264.8
127.5°	101.4	104.0	107.6	114.6	123.7	134.9	148.1	166.1	190.0	219.9	253.4
130°	104.9	107.9	111.9	118.9	127.9	138.9	151.6	168.2	189.2	216.1	246.1
132.5°	107.8	111.1	115.9	122.9	131.7	142.3	154.8	169.8	188.9	212.7	239.5
135°	112.5	116.2	121.2	128.3	137.2	147.5	158.9	172.2	188.5	208.2	230.5
137.5°	117.1	120.6	125.9	132.9	141.2	151.2	161.9	173.8	187.8	204.2	222.3
140°	120.3	123.6	128.9	135.5	143.9	153.5	163.5	174.8	187.6	201.8	217.5
142.5°	123.2	126.8	131.6	138.3	146.0	155.4	165.1	175.7	187.0	199.7	213.0
145°	127.9	130.9	135.9	141.6	149.2	157.9	166.8	176.2	186.2	196.8	207.5
147.5°	132.7	135.6	140.0	145.4	151.9	159.9	168.0	176.2	184.9	194.1	203.0
150°	135.9	138.6	142.9	147.5	153.5	161.2	168.2	176.2	183.9	192.2	199.8
152.5°	139.1	141.8	145.5	149.7	155.4	162.0	168.7	175.4	182.6	190.0	196.9
155°	144.2	146.2	149.6	153.3	157.9	163.5	168.9	174.6	180.2	186.8	192.6
157.5°	148.6	150.2	153.2	156.3	159.9	164.4	169.2	173.4	178.1	183.2	187.8
160°	151.6	152.9	155.5	157.9	161.2	165.2	169.2	172.9	176.5	180.9	185.2
162.5°	153.9	155.0	157.1	159.2	162.0	165.5	168.9	171.8	174.9	178.4	182.0
165°	157.2	157.9	159.6	160.9	163.2	165.9	168.2	170.2	172.6	175.2	177.9
167.5°	159.9	160.2	161.5	162.4	163.9	165.8	167.7	168.6	170.1	172.1	174.3
170°	161.2	161.6	162.5	163.2	163.9	165.5	166.8	167.6	168.5	170.2	171.8
172.5°	162.5	162.6	163.3	163.7	164.1	165.5	166.6	166.7	167.2	168.3	169.8
175°	163.9	163.5	164.2	164.2	164.6	165.2	165.9	165.5	165.5	166.2	166.8
177.5°	164.6	164.3	164.6	164.6	164.6	164.9	165.3	164.9	164.6	164.9	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



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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	6.5	6.3	6.2	5.8	6.7	5.8
90°	8.7	9.0	9.6	9.3	9.6	10.0	9.6
92.5°	22.2	19.6	17.9	17.3	16.3	16.7	16.0
95°	81.2	63.6	51.7	45.3	42.3	40.0	38.6
97.5°	239.4	196.4	156.7	132.1	117.1	108.0	105.2
100°	365.7	326.8	279.5	245.8	221.5	208.5	208.9
102.5°	423.0	400.3	370.3	344.1	324.9	314.1	306.3
105°	466.3	472.6	464.0	448.7	436.0	425.4	423.7
107.5°	460.8	490.0	501.9	502.2	497.9	494.3	491.3
110°	443.0	484.9	508.3	517.6	520.3	519.6	519.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	419.5	466.6	496.5	513.6	521.9	524.4	524.5
115°	382.0	431.0	467.3	492.3	506.9	513.6	515.3
117.5°	350.3	394.3	431.1	457.2	474.0	483.5	485.8
120°	332.7	372.7	406.3	432.6	451.3	459.3	461.3
122.5°	318.6	355.6	386.9	410.3	427.1	435.8	438.4
125°	301.1	333.1	359.8	381.1	395.7	404.1	406.3
127.5°	285.7	314.5	338.8	357.8	370.3	377.9	379.9
130°	276.2	303.1	325.7	343.4	355.4	362.4	365.0
132.5°	267.0	292.2	313.8	330.4	342.3	348.6	350.4
135°	254.1	275.8	294.7	311.1	321.1	327.1	329.4
137.5°	241.7	260.3	276.8	290.5	300.7	305.7	307.3
140°	234.5	250.4	264.8	277.5	286.8	292.1	291.8
142.5°	227.5	241.4	253.8	264.7	273.0	277.7	277.4
145°	218.5	229.1	238.8	247.1	254.1	256.8	257.5
147.5°	211.8	220.4	227.2	233.6	238.3	240.8	241.1
150°	207.5	214.5	220.8	225.8	229.5	231.5	231.5
152.5°	203.5	209.7	215.0	218.9	222.3	223.5	223.5
155°	197.8	202.8	206.8	209.8	212.5	213.2	213.5
157.5°	192.3	196.1	199.3	201.9	203.9	204.4	204.3
160°	188.9	192.2	194.5	196.8	198.9	198.9	198.5
162.5°	185.1	188.2	190.3	191.8	193.5	193.5	193.2
165°	179.8	182.2	183.9	185.2	186.5	186.2	186.2
167.5°	175.8	177.1	178.3	178.9	179.8	179.6	179.6
170°	172.9	174.2	174.8	175.2	175.9	175.5	175.5
172.5°	170.5	171.5	171.9	172.0	172.7	172.1	171.8
175°	167.2	167.9	167.9	167.9	168.2	167.9	167.6
177.5°	165.3	165.6	165.6	165.3	165.6	165.0	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6

(END OF REPORT)