

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: P331826-935

Luminaire Tested: **S122RDIW-S865D435U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331826-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S865D435U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

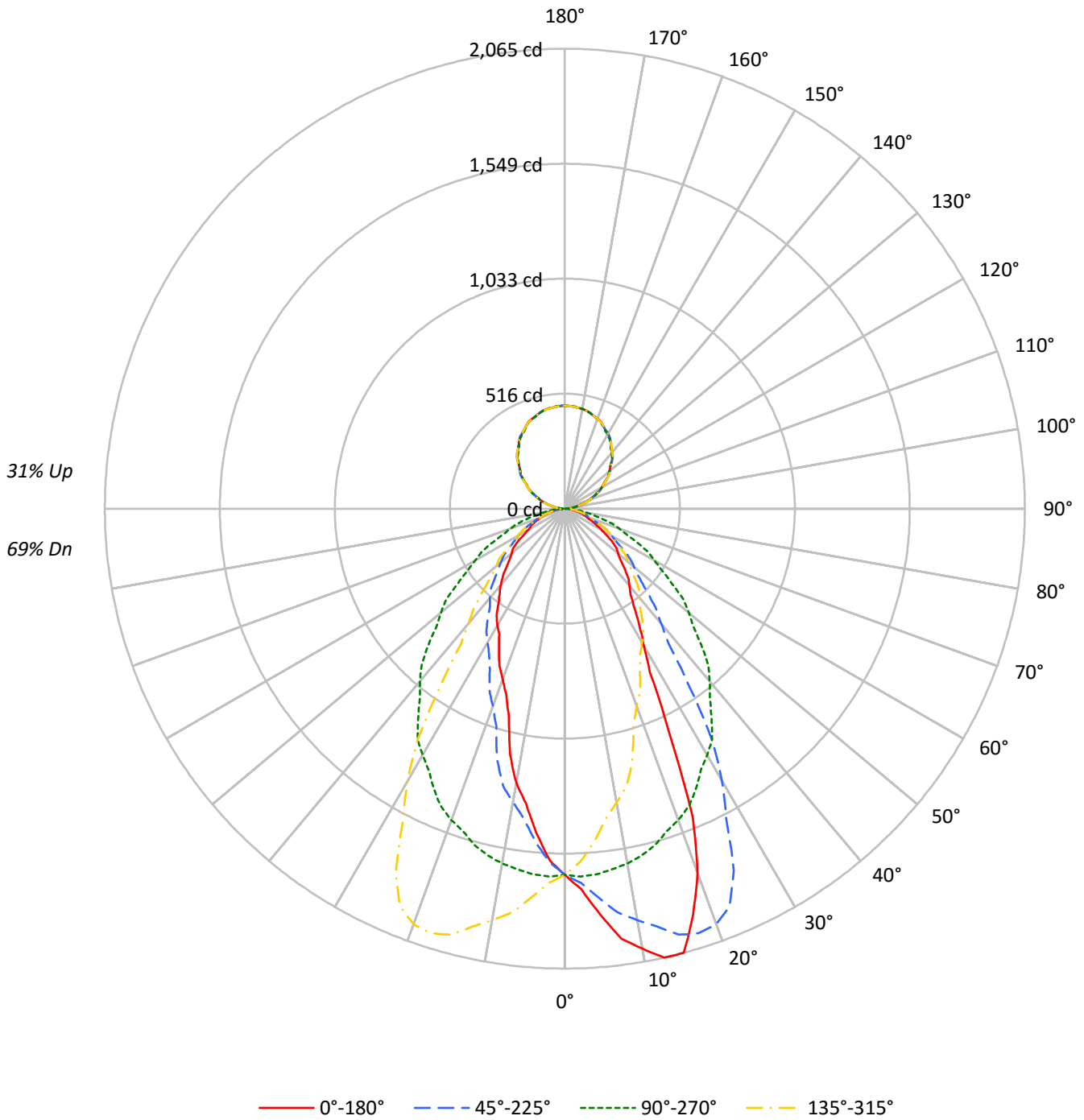
Lumens per Lamp: N/A  
Luminaire Lumens: 4135.8 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 46.2  
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	50	30	10	0	
RCR																						
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69				
1	103	99	95	92	97	94	91	88	84	81	79	75	73	71	66	65	64	60				
2	95	88	82	77	89	83	78	74	75	71	68	67	64	61	60	58	56	52				
3	87	78	71	66	82	74	68	63	67	62	58	60	57	53	54	51	49	46				
4	81	70	63	57	76	67	60	55	61	55	51	55	50	47	49	46	43	40				
5	75	63	56	50	70	60	53	48	55	49	45	50	45	42	45	41	38	36				
6	69	58	50	44	65	55	48	43	50	44	40	46	41	37	41	38	35	32				
7	64	53	45	39	61	50	43	38	46	40	36	42	37	34	38	34	31	29				
8	60	48	41	35	57	46	39	34	42	37	32	39	34	30	35	32	29	26				
9	56	44	37	32	53	43	36	31	39	34	30	36	31	28	33	29	26	24				
10	53	41	34	29	50	40	33	29	37	31	27	34	29	26	31	27	24	22				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	26547	26547	26547	26547
5°	29648	26712	23686	26712
10°	32893	26525	20530	26525
15°	34511	26136	16177	26136
20°	29919	25560	13998	25560
25°	19621	24772	12497	24772
30°	13207	23815	11311	23815
35°	10697	22610	10200	22610
40°	9512	21300	9440	21300
45°	8608	19763	8426	19763
50°	7834	18239	7804	18239
55°	7367	16549	7268	16549
60°	6161	14996	6090	14996
65°	5196	13620	5891	13620
70°	4801	12161	5556	12161
75°	4492	10586	5128	10586
80°	4147	8712	4575	8712
85°	3816	6873	4020	6873



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	3.8
10°-20°	434.3	10.5
20°-30°	559.6	13.5
30°-40°	531.8	12.9
40°-50°	455.6	11.0
50°-60°	346.9	8.4
60°-70°	219.3	5.3
70°-80°	109.5	2.6
80°-90°	30.4	0.7
90°-100°	29.3	0.7
100°-110°	91.0	2.2
110°-120°	155.5	3.8
120°-130°	204.5	4.9
130°-140°	229.5	5.5
140°-150°	225.0	5.4
150°-160°	188.8	4.6
160°-170°	125.2	3.0
170°-180°	43.8	1.1
0°-30°	1149.8	27.8
0°-40°	1681.6	40.7
0°-60°	2484.1	60.1
0°-90°	2843.3	68.7
90°-120°	275.7	6.7
90°-150°	934.8	22.6
90°-180°	1293.0	31.3
0°-180°	4135.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1644	1644	1644	1644	1644	
5°	1829	1648	1461	1648	1829	181
15°	2065	1564	968	1564	2065	557
25°	1101	1390	702	1390	1101	523
35°	543	1147	518	1147	543	347
45°	377	866	369	866	377	292
55°	262	588	258	588	262	230
65°	136	356	154	356	136	138
75°	72	170	82	170	72	76
85°	21	37	22	37	21	22
90°	13	0	13	0	13	7
95°	24	20	24	20	24	27
105°	87	84	87	84	87	91
115°	156	156	156	156	156	154
125°	228	227	228	227	228	203
135°	297	294	297	294	297	229
145°	360	356	360	356	360	225
155°	411	408	411	408	411	189
165°	444	444	444	444	444	125
175°	460	462	460	462	460	44
180°	462	462	462	462	462	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1710.9	1712.3	1713.6	1710.4	1710.4	1707.7	1701.8	1697.2	1684.4	1682.6	1682.6
5°	1829.3	1828.1	1830.4	1823.0	1812.7	1810.4	1799.6	1785.3	1770.4	1753.9	1750.4
7.5°	1946.9	1945.2	1940.6	1939.4	1931.5	1914.3	1896.8	1878.2	1853.5	1829.4	1817.2
10°	2006.3	2025.2	2013.8	1993.7	1997.8	1970.9	1956.6	1932.1	1911.5	1875.5	1867.5
12.5°	2064.9	2072.3	2068.6	2057.3	2052.2	2033.5	2014.2	1992.9	1954.9	1922.6	1894.5
15°	2064.6	2075.4	2078.3	2074.9	2077.8	2076.6	2066.3	2048.6	2015.5	1980.0	1949.2
17.5°	1912.2	1919.8	1938.5	1951.1	1967.1	2001.0	2017.7	2024.1	2019.2	1999.0	1977.3
20°	1741.3	1728.7	1781.2	1808.1	1830.9	1888.1	1937.2	1956.1	1986.3	1985.8	1980.0
22.5°	1499.0	1502.0	1551.9	1583.7	1650.5	1707.5	1763.6	1834.5	1893.1	1931.8	1954.5
25°	1101.4	1123.2	1172.9	1216.2	1290.6	1396.8	1493.3	1605.3	1711.0	1794.4	1873.8
27.5°	827.2	828.8	868.2	908.4	952.4	1039.5	1161.1	1294.8	1445.4	1569.8	1712.8
30°	708.4	705.0	721.5	746.1	783.8	851.2	942.6	1074.0	1224.3	1411.6	1578.5
32.5°	624.3	624.5	637.0	655.1	686.5	731.9	794.5	901.3	1043.3	1227.4	1423.1
35°	542.7	542.2	551.3	564.4	577.6	606.7	649.5	705.5	803.2	975.2	1175.1
37.5°	484.2	486.7	491.2	499.4	513.9	530.1	555.9	593.5	663.1	764.7	932.8
40°	451.3	452.5	458.7	465.6	474.2	486.7	507.9	538.1	589.0	670.1	792.9
42.5°	421.1	422.3	426.7	433.2	439.9	452.5	469.9	496.1	537.4	600.6	702.0
45°	377.0	377.0	381.1	383.9	391.3	402.8	417.1	438.8	467.3	514.2	581.6
47.5°	335.7	335.8	338.5	343.4	348.0	357.0	371.0	388.7	409.5	445.7	503.3
50°	311.9	312.5	314.2	318.2	321.1	329.1	339.9	355.3	377.0	405.0	453.1
52.5°	292.7	292.4	294.5	296.3	298.3	303.9	312.0	325.6	345.1	369.4	409.1
55°	261.7	259.3	262.8	265.6	267.3	269.7	274.2	282.8	299.4	319.9	349.7
57.5°	222.8	221.9	224.3	226.9	232.3	238.4	242.4	247.8	256.4	271.1	300.6
60°	190.8	190.8	196.0	197.7	204.0	212.0	220.0	224.5	233.1	242.8	264.5
62.5°	162.5	162.9	165.3	167.0	170.6	180.4	191.6	201.6	209.7	219.0	233.4
65°	136.0	137.1	137.1	138.3	140.5	142.8	147.4	155.4	169.7	182.8	193.6
67.5°	115.4	115.7	116.1	117.3	117.8	120.3	122.2	125.7	129.0	141.5	154.9
70°	101.7	103.4	102.8	104.0	104.5	105.6	108.0	109.7	114.9	117.7	125.7
72.5°	88.9	90.1	90.1	90.7	92.2	92.5	94.3	96.0	99.3	101.7	106.0
75°	72.0	71.4	72.0	73.1	73.7	74.3	74.3	76.5	78.3	80.6	83.4
77.5°	55.5	56.1	56.0	56.1	56.2	57.3	57.2	58.1	59.8	61.0	62.4
80°	44.6	45.1	44.6	45.1	45.7	46.2	45.7	46.2	48.0	49.2	49.2
82.5°	34.5	34.6	35.0	35.0	35.2	35.3	36.1	36.2	37.5	37.3	37.7
85°	20.6	20.0	20.0	20.0	20.6	21.1	20.6	20.6	21.1	21.1	21.1
87.5°	10.0	10.4	10.4	10.3	10.3	10.3	10.4	10.8	10.5	10.9	10.2
90°	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3	13.5	13.7	11.7
92.5°	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.4	12.4	12.0
95°	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0	25.0	25.0	24.8
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7
100°	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.6
102.5°	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7	66.7	66.6	66.3
105°	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2	86.0	85.8	85.7
107.5°	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1	107.0	106.9	106.9
110°	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3	121.3	121.3	121.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6	135.8	136.0	136.0
115°	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4	157.5	157.6	157.7
117.5°	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6	178.7	179.0	179.4
120°	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7	192.7	192.7	193.4
122.5°	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2	207.5	207.7	208.2
125°	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9	229.1	229.4	229.6
127.5°	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8	250.1	250.5	250.7
130°	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2	264.3	264.5	264.7
132.5°	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1	278.4	278.8	278.8
135°	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6	298.7	298.8	298.6
137.5°	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3	318.4	318.5	318.2
140°	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6	331.6	331.6	331.1
142.5°	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5	343.5	343.5	343.1
145°	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8	361.7	361.6	361.1
147.5°	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7	377.5	377.4	377.0
150°	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9	387.6	387.4	387.0
152.5°	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0	397.7	397.4	396.9
155°	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9	410.4	410.0	409.7
157.5°	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7	422.1	421.5	421.4
160°	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7	429.2	428.7	428.6
162.5°	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1	435.5	435.0	434.9
165°	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4	443.8	443.2	443.2
167.5°	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2	450.6	450.0	450.0
170°	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9	454.3	453.7	453.7
172.5°	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7	457.1	456.5	456.6
175°	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7	460.1	459.5	459.7
177.5°	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2	461.8	461.3	461.4
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1683.4	1679.8	1676.6	1668.4	1664.2	1655.1	1653.7	1653.3	1641.4	1630.0	1626.8
5°	1741.3	1732.2	1718.4	1702.5	1685.8	1668.7	1657.3	1648.1	1625.3	1603.6	1591.0
7.5°	1799.6	1779.9	1756.3	1726.0	1700.7	1672.4	1651.3	1632.5	1600.1	1569.0	1548.1
10°	1843.0	1810.9	1779.5	1737.8	1705.3	1673.3	1643.6	1617.9	1581.3	1540.2	1511.1
12.5°	1869.9	1834.7	1791.4	1750.7	1708.5	1667.8	1628.1	1595.0	1552.0	1509.6	1474.9
15°	1906.3	1868.6	1816.1	1757.8	1703.6	1650.5	1604.7	1563.6	1507.6	1456.7	1414.5
17.5°	1936.2	1884.3	1827.9	1760.5	1697.6	1630.1	1571.2	1518.7	1456.4	1395.1	1345.2
20°	1945.8	1894.4	1829.3	1761.9	1687.6	1608.2	1544.7	1487.6	1420.7	1353.9	1296.8
22.5°	1939.8	1899.9	1827.4	1746.7	1670.7	1587.6	1516.0	1449.7	1375.5	1307.3	1241.0
25°	1899.5	1885.8	1817.2	1729.2	1642.4	1545.9	1463.0	1390.5	1306.0	1232.9	1160.8
27.5°	1805.5	1835.0	1792.6	1698.8	1602.3	1498.8	1405.7	1323.1	1235.4	1153.1	1081.3
30°	1715.0	1783.0	1764.7	1677.8	1569.9	1468.2	1363.7	1277.4	1183.7	1099.2	1028.3
32.5°	1591.1	1703.4	1721.3	1648.6	1537.0	1425.2	1315.7	1229.9	1132.0	1042.9	973.9
35°	1394.0	1561.9	1639.0	1592.8	1480.7	1360.2	1247.1	1147.1	1048.9	960.9	892.3
37.5°	1158.6	1387.4	1516.0	1519.2	1416.4	1291.1	1167.9	1068.7	968.1	881.8	807.5
40°	1006.0	1254.0	1421.3	1458.4	1371.7	1236.2	1111.7	1010.6	912.3	827.8	742.7
42.5°	868.9	1115.9	1321.7	1386.3	1317.2	1182.8	1057.8	952.1	856.6	776.6	689.7
45°	702.7	918.6	1145.4	1260.8	1222.5	1098.0	966.0	865.5	775.8	706.7	623.3
47.5°	592.8	744.9	964.4	1120.5	1119.8	1006.2	876.3	780.1	696.8	632.1	564.6
50°	530.1	662.7	848.3	1025.5	1040.3	944.9	821.5	726.1	648.4	580.4	526.2
52.5°	473.9	583.2	750.1	919.9	962.2	879.5	759.8	671.8	596.3	533.8	487.3
55°	400.5	485.0	611.8	770.7	834.7	776.4	670.1	587.9	526.8	474.2	434.2
57.5°	338.8	402.2	503.9	631.8	706.4	669.7	582.0	515.2	462.9	415.3	383.7
60°	299.9	351.9	438.2	545.0	627.2	601.6	526.8	464.4	419.9	378.8	349.0
62.5°	263.4	308.1	381.9	468.6	544.1	533.5	472.3	420.1	381.1	343.5	318.4
65°	212.0	244.5	302.2	370.2	430.8	435.9	391.9	356.5	321.7	292.0	269.7
67.5°	168.8	190.0	230.7	287.9	333.3	349.5	322.6	295.6	267.9	245.0	225.7
70°	142.2	159.4	189.1	235.4	277.1	294.2	278.8	257.6	233.7	214.8	198.2
72.5°	115.3	132.0	153.9	187.9	223.6	242.1	236.8	221.5	202.1	186.5	170.8
75°	86.9	92.0	106.9	129.7	157.6	173.7	177.7	169.7	154.2	142.2	133.1
77.5°	64.2	67.3	74.4	86.4	104.7	118.9	124.8	123.8	113.2	106.2	97.7
80°	51.4	53.1	56.6	61.7	75.4	89.7	93.7	93.7	86.3	83.4	74.8
82.5°	39.1	40.3	42.4	45.2	51.7	64.1	68.5	69.5	64.7	61.0	54.2
85°	22.3	21.7	22.8	24.5	25.7	29.1	36.0	37.1	36.0	31.4	29.7
87.5°	9.7	9.8	9.5	8.7	9.0	9.2	11.3	13.3	11.7	10.6	9.8
90°	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4	1.5	2.5	3.5
92.5°	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0	7.7	8.4	9.2
95°	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3	21.2	22.0	22.9
97.5°	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0	37.8	38.6	39.3
100°	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5	50.2	50.9	51.7
102.5°	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7	63.2	63.7	64.3
105°	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9	84.1	84.4	84.6
107.5°	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2	105.6	106.0	106.4
110°	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0	119.5	120.0	120.5





TEST NUMBER: P331826-935

CATALOG NUMBER: S122RDIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0	134.5	135.0	135.5
115°	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0	156.5	157.0	157.6
117.5°	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1	178.7	179.4	180.1
120°	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	193.4	194.1	194.8
122.5°	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1	207.0	207.8	208.6
125°	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0	227.8	228.6	229.4
127.5°	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4	248.4	249.3	250.4
130°	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2	261.3	262.4	263.6
132.5°	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6	275.4	276.4	277.3
135°	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8	294.7	295.7	296.6
137.5°	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9	314.7	315.5	316.2
140°	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1	326.9	327.7	328.5
142.5°	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6	339.4	340.2	341.0
145°	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5	357.1	357.7	358.3
147.5°	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6	373.2	374.0	374.7
150°	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5	384.0	384.5	385.0
152.5°	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1	393.6	394.2	394.7
155°	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6	407.9	408.1	408.5
157.5°	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1	420.3	420.4	420.6
160°	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6	427.7	427.9	428.1
162.5°	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4	434.5	434.5	434.5
165°	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5	443.4	443.3	443.2
167.5°	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2	450.9	450.6	450.4
170°	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2	455.0	454.7	454.4
172.5°	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1	457.8	457.5	457.3
175°	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5	461.2	461.0	460.7
177.5°	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9	462.7	462.4	462.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331826-935

CATALOG NUMBER: S122RDIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1620.8	1617.6	1611.7	1602.6	1597.1	1587.5	1581.1	1584.8	1585.6	1584.8	1583.8
5°	1577.3	1565.3	1548.8	1532.8	1517.9	1501.9	1492.7	1488.8	1480.7	1476.2	1473.9
7.5°	1524.7	1504.0	1480.5	1452.7	1429.0	1404.2	1391.5	1385.3	1368.9	1359.9	1352.2
10°	1485.3	1452.8	1429.3	1392.8	1370.5	1337.9	1315.7	1316.2	1293.9	1281.3	1272.2
12.5°	1441.9	1406.2	1367.2	1334.3	1303.3	1277.1	1250.3	1239.4	1215.8	1203.7	1179.0
15°	1369.9	1328.3	1287.1	1242.5	1211.1	1170.5	1131.7	1084.3	1046.0	1012.9	1003.8
17.5°	1291.3	1239.7	1198.4	1146.1	1092.3	1024.1	979.0	951.5	928.4	910.9	897.9
20°	1237.4	1184.8	1140.8	1062.0	989.5	943.2	910.1	888.9	865.0	846.1	835.8
22.5°	1180.7	1125.8	1065.9	977.9	921.4	884.2	854.7	830.4	814.2	799.4	790.1
25°	1100.3	1040.3	941.5	880.9	835.2	796.3	775.8	761.0	743.8	723.8	714.6
27.5°	1015.3	919.9	848.9	803.9	760.3	735.0	716.5	694.3	679.0	670.0	660.5
30°	951.7	856.4	800.9	751.8	720.9	692.9	671.2	658.7	643.9	628.4	622.2
32.5°	880.9	804.7	751.6	710.7	679.3	655.5	638.3	618.0	607.3	597.8	584.6
35°	792.9	735.2	686.6	653.6	623.9	604.4	584.4	572.4	553.0	545.0	539.8
37.5°	718.4	668.4	632.1	597.2	573.7	552.2	539.9	520.9	512.5	501.4	490.5
40°	676.4	627.2	592.5	563.9	537.6	521.6	506.2	490.8	478.2	473.0	459.9
42.5°	633.4	593.5	558.6	527.3	509.7	492.8	473.3	461.9	448.9	440.6	432.5
45°	574.1	538.7	509.0	483.3	463.9	446.2	433.6	414.7	407.3	390.7	383.9
47.5°	522.0	489.1	460.8	436.4	417.4	405.9	387.4	372.7	360.8	350.7	341.8
50°	485.0	457.6	430.2	408.5	391.3	374.8	355.9	348.4	330.2	325.0	319.9
52.5°	451.2	425.2	400.0	378.8	361.6	345.5	328.9	319.3	306.9	301.8	298.0
55°	403.9	378.8	354.7	335.9	318.7	302.2	292.0	279.9	274.2	270.2	265.6
57.5°	356.4	333.7	315.4	296.3	279.1	265.9	254.0	246.8	240.8	235.6	230.1
60°	326.2	304.4	287.9	270.2	252.5	241.7	232.5	223.9	217.1	209.1	206.8
62.5°	294.2	275.3	260.0	242.8	227.4	217.4	208.7	200.6	192.4	180.7	177.5
65°	250.2	235.4	219.4	205.1	191.4	181.7	169.1	160.0	156.5	155.4	154.8
67.5°	210.4	196.4	182.7	168.1	155.6	146.6	140.2	138.8	136.4	135.7	134.1
70°	183.9	170.8	157.1	143.4	131.4	129.7	127.4	125.1	122.3	121.1	119.9
72.5°	160.1	146.6	132.9	121.9	116.8	114.6	112.3	110.0	108.1	106.9	106.2
75°	122.9	110.3	101.1	97.1	94.3	92.6	89.1	87.4	86.3	84.6	83.9
77.5°	88.4	81.4	77.1	74.6	71.6	69.8	67.8	66.1	64.9	64.6	63.6
80°	67.4	64.0	61.1	57.7	56.6	54.2	53.7	52.0	52.5	50.9	50.9
82.5°	52.3	48.0	45.5	44.0	42.9	41.0	40.5	39.6	39.8	38.5	38.5
85°	26.9	25.7	24.5	23.4	23.4	21.7	22.3	21.7	21.7	20.6	20.0
87.5°	9.6	9.5	8.9	9.3	9.6	9.6	9.6	9.0	9.0	9.0	8.5
90°	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3	13.2	13.0	12.9
92.5°	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5	12.5	12.6	12.6
95°	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0	25.0	25.0	24.9
97.5°	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9	41.9	41.9	41.9
100°	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8	53.8	53.8	53.8
102.5°	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7	66.8	66.9	66.9
105°	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2	86.4	86.5	86.6
107.5°	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1	107.2	107.3	107.1
110°	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.1



TEST NUMBER: P331826-935

CATALOG NUMBER: S122RDIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6	135.3	135.2	134.9
115°	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4	157.3	157.2	157.0
117.5°	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6	178.3	178.1	177.9
120°	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7	192.7	192.7	192.6
122.5°	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2	207.1	206.8	206.6
125°	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9	228.6	228.3	228.2
127.5°	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8	249.5	249.2	248.9
130°	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2	264.0	263.8	263.6
132.5°	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1	277.7	277.3	277.0
135°	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6	298.5	298.4	298.3
137.5°	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3	318.2	318.2	318.0
140°	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6	331.6	331.6	331.4
142.5°	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5	343.6	343.7	343.5
145°	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8	361.9	362.0	361.8
147.5°	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7	378.0	378.2	378.1
150°	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9	388.1	388.4	388.4
152.5°	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0	398.3	398.6	398.6
155°	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9	411.3	411.7	411.8
157.5°	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7	423.3	423.9	424.0
160°	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7	430.2	430.8	430.8
162.5°	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1	436.7	437.3	437.4
165°	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4	445.0	445.6	445.7
167.5°	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2	451.8	452.4	452.5
170°	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9	455.5	456.1	456.2
172.5°	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7	458.3	458.9	458.9
175°	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7	461.3	461.9	462.0
177.5°	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2	462.5	463.0	463.0
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331826-935

CATALOG NUMBER: S122RDIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1578.8	1579.7	1578.3	1579.2	1578.3	1579.7	1578.8	1583.8	1584.8	1585.6	1584.8
5°	1471.0	1464.2	1463.0	1461.4	1463.0	1464.2	1471.0	1473.9	1476.2	1480.7	1488.8
7.5°	1342.4	1341.4	1338.5	1334.6	1338.5	1341.4	1342.4	1352.2	1359.9	1368.9	1385.3
10°	1259.6	1256.8	1256.3	1252.2	1256.3	1256.8	1259.6	1272.2	1281.3	1293.9	1316.2
12.5°	1162.8	1144.4	1142.5	1132.5	1142.5	1144.4	1162.8	1179.0	1203.7	1215.8	1239.4
15°	990.1	986.6	975.2	967.8	975.2	986.6	990.1	1003.8	1012.9	1046.0	1084.3
17.5°	891.3	880.1	876.6	874.9	876.6	880.1	891.3	897.9	910.9	928.4	951.5
20°	827.8	817.5	815.8	814.7	815.8	817.5	827.8	835.8	846.1	865.0	888.9
22.5°	783.9	773.2	768.7	765.3	768.7	773.2	783.9	790.1	799.4	814.2	830.4
25°	708.9	705.0	702.7	701.5	702.7	705.0	708.9	714.6	723.8	743.8	761.0
27.5°	650.3	641.5	639.8	636.9	639.8	641.5	650.3	660.5	670.0	679.0	694.3
30°	617.0	614.2	610.1	606.7	610.1	614.2	617.0	622.2	628.4	643.9	658.7
32.5°	577.6	575.3	571.7	570.2	571.7	575.3	577.6	584.6	597.8	607.3	618.0
35°	534.2	526.2	522.7	517.5	522.7	526.2	534.2	539.8	545.0	553.0	572.4
37.5°	488.1	483.9	479.1	480.8	479.1	483.9	488.1	490.5	501.4	512.5	520.9
40°	452.5	449.6	448.5	447.9	448.5	449.6	452.5	459.9	473.0	478.2	490.8
42.5°	424.1	416.2	413.3	413.1	413.3	416.2	424.1	432.5	440.6	448.9	461.9
45°	381.1	373.6	368.5	369.0	368.5	373.6	381.1	383.9	390.7	407.3	414.7
47.5°	336.9	336.7	333.6	334.6	333.6	336.7	336.9	341.8	350.7	360.8	372.7
50°	315.9	312.5	310.2	310.7	310.2	312.5	315.9	319.9	325.0	330.2	348.4
52.5°	295.8	292.8	291.0	293.4	291.0	292.8	295.8	298.0	301.8	306.9	319.3
55°	262.8	259.3	258.8	258.2	258.8	259.3	262.8	265.6	270.2	274.2	279.9
57.5°	225.9	223.6	220.2	218.7	220.2	223.6	225.9	230.1	235.6	240.8	246.8
60°	199.4	194.8	189.1	188.6	189.1	194.8	199.4	206.8	209.1	217.1	223.9
62.5°	175.1	174.3	173.1	173.0	173.1	174.3	175.1	177.5	180.7	192.4	200.6
65°	153.7	153.1	153.7	154.2	153.7	153.1	153.7	154.8	155.4	156.5	160.0
67.5°	133.9	132.9	131.8	132.3	131.8	132.9	133.9	134.1	135.7	136.4	138.8
70°	118.8	118.2	117.7	117.7	117.7	118.2	118.8	119.9	121.1	122.3	125.1
72.5°	104.2	104.1	103.5	103.1	103.5	104.1	104.2	106.2	106.9	108.1	110.0
75°	83.4	82.2	82.2	82.2	82.2	82.2	83.4	83.9	84.6	86.3	87.4
77.5°	63.5	62.9	62.4	61.9	62.4	62.9	63.5	63.6	64.6	64.9	66.1
80°	50.3	49.7	49.2	49.2	49.2	49.7	50.3	50.9	50.9	52.5	52.0
82.5°	38.4	37.8	37.7	37.3	37.7	37.8	38.4	38.5	38.5	39.8	39.6
85°	20.6	21.1	20.6	21.7	20.6	21.1	20.6	20.0	20.6	21.7	21.7
87.5°	8.5	8.1	8.6	8.2	8.6	8.1	8.5	8.5	9.0	9.0	9.0
90°	13.0	13.1	13.2	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3
92.5°	12.6	12.6	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5
95°	24.7	24.5	24.4	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.7	53.6	53.6	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8
102.5°	66.8	66.7	66.6	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7
105°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2
107.5°	106.7	106.2	105.9	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1
110°	120.9	120.6	120.4	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3



TEST NUMBER: P331826-935

CATALOG NUMBER: S122RDIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	134.7	134.6	134.4	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6
115°	156.8	156.5	156.3	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4
117.5°	177.6	177.4	177.1	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6
120°	192.3	192.1	191.8	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7
122.5°	206.5	206.3	206.0	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2
125°	228.1	228.0	227.9	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9
127.5°	248.6	248.3	248.1	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8
130°	263.2	262.9	262.5	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2
132.5°	276.7	276.4	276.1	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1
135°	298.0	297.7	297.5	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6
137.5°	317.6	317.3	316.9	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3
140°	331.1	330.7	330.4	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6
142.5°	343.2	342.9	342.5	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5
145°	361.4	361.1	360.8	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8
147.5°	377.7	377.4	377.0	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7
150°	388.1	387.9	387.6	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9
152.5°	398.3	398.0	397.7	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0
155°	411.6	411.3	411.0	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9
157.5°	423.5	423.1	422.8	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7
160°	430.5	430.2	429.8	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7
162.5°	437.0	436.5	436.1	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1
165°	445.2	444.8	444.4	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4
167.5°	451.9	451.5	451.1	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2
170°	455.6	455.1	454.6	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9
172.5°	458.4	457.9	457.4	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7
175°	461.5	461.0	460.5	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7
177.5°	462.5	462.2	461.8	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331826-935

CATALOG NUMBER: S122RDIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1581.1	1587.5	1597.1	1602.6	1611.7	1617.6	1620.8	1626.8	1630.0	1641.4	1653.3
5°	1492.7	1501.9	1517.9	1532.8	1548.8	1565.3	1577.3	1591.0	1603.6	1625.3	1648.1
7.5°	1391.5	1404.2	1429.0	1452.7	1480.5	1504.0	1524.7	1548.1	1569.0	1600.1	1632.5
10°	1315.7	1337.9	1370.5	1392.8	1429.3	1452.8	1485.3	1511.1	1540.2	1581.3	1617.9
12.5°	1250.3	1277.1	1303.3	1334.3	1367.2	1406.2	1441.9	1474.9	1509.6	1552.0	1595.0
15°	1131.7	1170.5	1211.1	1242.5	1287.1	1328.3	1369.9	1414.5	1456.7	1507.6	1563.6
17.5°	979.0	1024.1	1092.3	1146.1	1198.4	1239.7	1291.3	1345.2	1395.1	1456.4	1518.7
20°	910.1	943.2	989.5	1062.0	1140.8	1184.8	1237.4	1296.8	1353.9	1420.7	1487.6
22.5°	854.7	884.2	921.4	977.9	1065.9	1125.8	1180.7	1241.0	1307.3	1375.5	1449.7
25°	775.8	796.3	835.2	880.9	941.5	1040.3	1100.3	1160.8	1232.9	1306.0	1390.5
27.5°	716.5	735.0	760.3	803.9	848.9	919.9	1015.3	1081.3	1153.1	1235.4	1323.1
30°	671.2	692.9	720.9	751.8	800.9	856.4	951.7	1028.3	1099.2	1183.7	1277.4
32.5°	638.3	655.5	679.3	710.7	751.6	804.7	880.9	973.9	1042.9	1132.0	1229.9
35°	584.4	604.4	623.9	653.6	686.6	735.2	792.9	892.3	960.9	1048.9	1147.1
37.5°	539.9	552.2	573.7	597.2	632.1	668.4	718.4	807.5	881.8	968.1	1068.7
40°	506.2	521.6	537.6	563.9	592.5	627.2	676.4	742.7	827.8	912.3	1010.6
42.5°	473.3	492.8	509.7	527.3	558.6	593.5	633.4	689.7	776.6	856.6	952.1
45°	433.6	446.2	463.9	483.3	509.0	538.7	574.1	623.3	706.7	775.8	865.5
47.5°	387.4	405.9	417.4	436.4	460.8	489.1	522.0	564.6	632.1	696.8	780.1
50°	355.9	374.8	391.3	408.5	430.2	457.6	485.0	526.2	580.4	648.4	726.1
52.5°	328.9	345.5	361.6	378.8	400.0	425.2	451.2	487.3	533.8	596.3	671.8
55°	292.0	302.2	318.7	335.9	354.7	378.8	403.9	434.2	474.2	526.8	587.9
57.5°	254.0	265.9	279.1	296.3	315.4	333.7	356.4	383.7	415.3	462.9	515.2
60°	232.5	241.7	252.5	270.2	287.9	304.4	326.2	349.0	378.8	419.9	464.4
62.5°	208.7	217.4	227.4	242.8	260.0	275.3	294.2	318.4	343.5	381.1	420.1
65°	169.1	181.7	191.4	205.1	219.4	235.4	250.2	269.7	292.0	321.7	356.5
67.5°	140.2	146.6	155.6	168.1	182.7	196.4	210.4	225.7	245.0	267.9	295.6
70°	127.4	129.7	131.4	143.4	157.1	170.8	183.9	198.2	214.8	233.7	257.6
72.5°	112.3	114.6	116.8	121.9	132.9	146.6	160.1	170.8	186.5	202.1	221.5
75°	89.1	92.6	94.3	97.1	101.1	110.3	122.9	133.1	142.2	154.2	169.7
77.5°	67.8	69.8	71.6	74.6	77.1	81.4	88.4	97.7	106.2	113.2	123.8
80°	53.7	54.2	56.6	57.7	61.1	64.0	67.4	74.8	83.4	86.3	93.7
82.5°	40.5	41.0	42.9	44.0	45.5	48.0	52.3	54.2	61.0	64.7	69.5
85°	22.3	21.7	23.4	23.4	24.5	25.7	26.9	29.7	31.4	36.0	37.1
87.5°	9.6	9.6	9.6	9.3	8.9	9.5	9.6	9.8	10.6	11.7	13.3
90°	13.5	13.7	11.7	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4
92.5°	12.4	12.4	12.0	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0
95°	25.0	25.0	24.8	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3
97.5°	41.9	41.9	41.7	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0
100°	53.8	53.8	53.6	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5
102.5°	66.7	66.6	66.3	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7
105°	86.0	85.8	85.7	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9
107.5°	107.0	106.9	106.9	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2
110°	121.3	121.3	121.3	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0



TEST NUMBER: P331826-935

CATALOG NUMBER: S122RDIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	135.8	136.0	136.0	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0
115°	157.5	157.6	157.7	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0
117.5°	178.7	179.0	179.4	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1
120°	192.7	192.7	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7
122.5°	207.5	207.7	208.2	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1
125°	229.1	229.4	229.6	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0
127.5°	250.1	250.5	250.7	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4
130°	264.3	264.5	264.7	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2
132.5°	278.4	278.8	278.8	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6
135°	298.7	298.8	298.6	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8
137.5°	318.4	318.5	318.2	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9
140°	331.6	331.6	331.1	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1
142.5°	343.5	343.5	343.1	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6
145°	361.7	361.6	361.1	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5
147.5°	377.5	377.4	377.0	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6
150°	387.6	387.4	387.0	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5
152.5°	397.7	397.4	396.9	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1
155°	410.4	410.0	409.7	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6
157.5°	422.1	421.5	421.4	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1
160°	429.2	428.7	428.6	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6
162.5°	435.5	435.0	434.9	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4
165°	443.8	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5
167.5°	450.6	450.0	450.0	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2
170°	454.3	453.7	453.7	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2
172.5°	457.1	456.5	456.6	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1
175°	460.1	459.5	459.7	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5
177.5°	461.8	461.3	461.4	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331826-935

CATALOG NUMBER: S122RDIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1653.7	1655.1	1664.2	1668.4	1676.6	1679.8	1683.4	1682.6	1682.6	1684.4	1697.2
5°	1657.3	1668.7	1685.8	1702.5	1718.4	1732.2	1741.3	1750.4	1753.9	1770.4	1785.3
7.5°	1651.3	1672.4	1700.7	1726.0	1756.3	1779.9	1799.6	1817.2	1829.4	1853.5	1878.2
10°	1643.6	1673.3	1705.3	1737.8	1779.5	1810.9	1843.0	1867.5	1875.5	1911.5	1932.1
12.5°	1628.1	1667.8	1708.5	1750.7	1791.4	1834.7	1869.9	1894.5	1922.6	1954.9	1992.9
15°	1604.7	1650.5	1703.6	1757.8	1816.1	1868.6	1906.3	1949.2	1980.0	2015.5	2048.6
17.5°	1571.2	1630.1	1697.6	1760.5	1827.9	1884.3	1936.2	1977.3	1999.0	2019.2	2024.1
20°	1544.7	1608.2	1687.6	1761.9	1829.3	1894.4	1945.8	1980.0	1985.8	1986.3	1956.1
22.5°	1516.0	1587.6	1670.7	1746.7	1827.4	1899.9	1939.8	1954.5	1931.8	1893.1	1834.5
25°	1463.0	1545.9	1642.4	1729.2	1817.2	1885.8	1899.5	1873.8	1794.4	1711.0	1605.3
27.5°	1405.7	1498.8	1602.3	1698.8	1792.6	1835.0	1805.5	1712.8	1569.8	1445.4	1294.8
30°	1363.7	1468.2	1569.9	1677.8	1764.7	1783.0	1715.0	1578.5	1411.6	1224.3	1074.0
32.5°	1315.7	1425.2	1537.0	1648.6	1721.3	1703.4	1591.1	1423.1	1227.4	1043.3	901.3
35°	1247.1	1360.2	1480.7	1592.8	1639.0	1561.9	1394.0	1175.1	975.2	803.2	705.5
37.5°	1167.9	1291.1	1416.4	1519.2	1516.0	1387.4	1158.6	932.8	764.7	663.1	593.5
40°	1111.7	1236.2	1371.7	1458.4	1421.3	1254.0	1006.0	792.9	670.1	589.0	538.1
42.5°	1057.8	1182.8	1317.2	1386.3	1321.7	1115.9	868.9	702.0	600.6	537.4	496.1
45°	966.0	1098.0	1222.5	1260.8	1145.4	918.6	702.7	581.6	514.2	467.3	438.8
47.5°	876.3	1006.2	1119.8	1120.5	964.4	744.9	592.8	503.3	445.7	409.5	388.7
50°	821.5	944.9	1040.3	1025.5	848.3	662.7	530.1	453.1	405.0	377.0	355.3
52.5°	759.8	879.5	962.2	919.9	750.1	583.2	473.9	409.1	369.4	345.1	325.6
55°	670.1	776.4	834.7	770.7	611.8	485.0	400.5	349.7	319.9	299.4	282.8
57.5°	582.0	669.7	706.4	631.8	503.9	402.2	338.8	300.6	271.1	256.4	247.8
60°	526.8	601.6	627.2	545.0	438.2	351.9	299.9	264.5	242.8	233.1	224.5
62.5°	472.3	533.5	544.1	468.6	381.9	308.1	263.4	233.4	219.0	209.7	201.6
65°	391.9	435.9	430.8	370.2	302.2	244.5	212.0	193.6	182.8	169.7	155.4
67.5°	322.6	349.5	333.3	287.9	230.7	190.0	168.8	154.9	141.5	129.0	125.7
70°	278.8	294.2	277.1	235.4	189.1	159.4	142.2	125.7	117.7	114.9	109.7
72.5°	236.8	242.1	223.6	187.9	153.9	132.0	115.3	106.0	101.7	99.3	96.0
75°	177.7	173.7	157.6	129.7	106.9	92.0	86.9	83.4	80.6	78.3	76.5
77.5°	124.8	118.9	104.7	86.4	74.4	67.3	64.2	62.4	61.0	59.8	58.1
80°	93.7	89.7	75.4	61.7	56.6	53.1	51.4	49.2	49.2	48.0	46.2
82.5°	68.5	64.1	51.7	45.2	42.4	40.3	39.1	37.7	37.3	37.5	36.2
85°	36.0	29.1	25.7	24.5	22.8	21.7	22.3	21.1	21.1	21.1	20.6
87.5°	11.3	9.2	9.0	8.7	9.5	9.8	9.7	10.2	10.9	10.5	10.8
90°	1.5	2.5	3.5	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3
92.5°	7.7	8.4	9.2	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5
95°	21.2	22.0	22.9	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0
97.5°	37.8	38.6	39.3	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9
100°	50.2	50.9	51.7	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8
102.5°	63.2	63.7	64.3	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7
105°	84.1	84.4	84.6	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2
107.5°	105.6	106.0	106.4	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1
110°	119.5	120.0	120.5	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.5	135.0	135.5	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6
115°	156.5	157.0	157.6	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4
117.5°	178.7	179.4	180.1	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6
120°	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7
122.5°	207.0	207.8	208.6	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2
125°	227.8	228.6	229.4	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9
127.5°	248.4	249.3	250.4	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8
130°	261.3	262.4	263.6	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2
132.5°	275.4	276.4	277.3	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1
135°	294.7	295.7	296.6	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6
137.5°	314.7	315.5	316.2	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3
140°	326.9	327.7	328.5	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6
142.5°	339.4	340.2	341.0	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5
145°	357.1	357.7	358.3	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8
147.5°	373.2	374.0	374.7	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7
150°	384.0	384.5	385.0	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9
152.5°	393.6	394.2	394.7	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0
155°	407.9	408.1	408.5	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9
157.5°	420.3	420.4	420.6	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7
160°	427.7	427.9	428.1	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7
162.5°	434.5	434.5	434.5	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1
165°	443.4	443.3	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4
167.5°	450.9	450.6	450.4	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2
170°	455.0	454.7	454.4	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9
172.5°	457.8	457.5	457.3	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7
175°	461.2	461.0	460.7	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7
177.5°	462.7	462.4	462.3	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1701.8	1707.7	1710.4	1710.4	1713.6	1712.3	1710.9
5°	1799.6	1810.4	1812.7	1823.0	1830.4	1828.1	1829.3
7.5°	1896.8	1914.3	1931.5	1939.4	1940.6	1945.2	1946.9
10°	1956.6	1970.9	1997.8	1993.7	2013.8	2025.2	2006.3
12.5°	2014.2	2033.5	2052.2	2057.3	2068.6	2072.3	2064.9
15°	2066.3	2076.6	2077.8	2074.9	2078.3	2075.4	2064.6
17.5°	2017.7	2001.0	1967.1	1951.1	1938.5	1919.8	1912.2
20°	1937.2	1888.1	1830.9	1808.1	1781.2	1728.7	1741.3
22.5°	1763.6	1707.5	1650.5	1583.7	1551.9	1502.0	1499.0
25°	1493.3	1396.8	1290.6	1216.2	1172.9	1123.2	1101.4
27.5°	1161.1	1039.5	952.4	908.4	868.2	828.8	827.2
30°	942.6	851.2	783.8	746.1	721.5	705.0	708.4
32.5°	794.5	731.9	686.5	655.1	637.0	624.5	624.3
35°	649.5	606.7	577.6	564.4	551.3	542.2	542.7
37.5°	555.9	530.1	513.9	499.4	491.2	486.7	484.2
40°	507.9	486.7	474.2	465.6	458.7	452.5	451.3
42.5°	469.9	452.5	439.9	433.2	426.7	422.3	421.1
45°	417.1	402.8	391.3	383.9	381.1	377.0	377.0
47.5°	371.0	357.0	348.0	343.4	338.5	335.8	335.7
50°	339.9	329.1	321.1	318.2	314.2	312.5	311.9
52.5°	312.0	303.9	298.3	296.3	294.5	292.4	292.7
55°	274.2	269.7	267.3	265.6	262.8	259.3	261.7
57.5°	242.4	238.4	232.3	226.9	224.3	221.9	222.8
60°	220.0	212.0	204.0	197.7	196.0	190.8	190.8
62.5°	191.6	180.4	170.6	167.0	165.3	162.9	162.5
65°	147.4	142.8	140.5	138.3	137.1	137.1	136.0
67.5°	122.2	120.3	117.8	117.3	116.1	115.7	115.4
70°	108.0	105.6	104.5	104.0	102.8	103.4	101.7
72.5°	94.3	92.5	92.2	90.7	90.1	90.1	88.9
75°	74.3	74.3	73.7	73.1	72.0	71.4	72.0
77.5°	57.2	57.3	56.2	56.1	56.0	56.1	55.5
80°	45.7	46.2	45.7	45.1	44.6	45.1	44.6
82.5°	36.1	35.3	35.2	35.0	35.0	34.6	34.5
85°	20.6	21.1	20.6	20.0	20.0	20.0	20.6
87.5°	10.4	10.3	10.3	10.3	10.4	10.4	10.0
90°	13.2	13.0	12.9	13.0	13.1	13.2	13.3
92.5°	12.5	12.6	12.6	12.6	12.6	12.7	12.7
95°	25.0	25.0	24.9	24.7	24.5	24.4	24.2
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.8	53.8	53.8	53.7	53.6	53.6	53.5
102.5°	66.8	66.9	66.9	66.8	66.7	66.6	66.6
105°	86.4	86.5	86.6	86.6	86.6	86.6	86.6
107.5°	107.2	107.3	107.1	106.7	106.2	105.9	105.5
110°	121.3	121.3	121.1	120.9	120.6	120.4	120.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	135.3	135.2	134.9	134.7	134.6	134.4	134.2
115°	157.3	157.2	157.0	156.8	156.5	156.3	156.0
117.5°	178.3	178.1	177.9	177.6	177.4	177.1	176.8
120°	192.7	192.7	192.6	192.3	192.1	191.8	191.6
122.5°	207.1	206.8	206.6	206.5	206.3	206.0	205.9
125°	228.6	228.3	228.2	228.1	228.0	227.9	227.8
127.5°	249.5	249.2	248.9	248.6	248.3	248.1	247.8
130°	264.0	263.8	263.6	263.2	262.9	262.5	262.2
132.5°	277.7	277.3	277.0	276.7	276.4	276.1	275.9
135°	298.5	298.4	298.3	298.0	297.7	297.5	297.2
137.5°	318.2	318.2	318.0	317.6	317.3	316.9	316.6
140°	331.6	331.6	331.4	331.1	330.7	330.4	330.0
142.5°	343.6	343.7	343.5	343.2	342.9	342.5	342.2
145°	361.9	362.0	361.8	361.4	361.1	360.8	360.4
147.5°	378.0	378.2	378.1	377.7	377.4	377.0	376.8
150°	388.1	388.4	388.4	388.1	387.9	387.6	387.4
152.5°	398.3	398.6	398.6	398.3	398.0	397.7	397.4
155°	411.3	411.7	411.8	411.6	411.3	411.0	410.8
157.5°	423.3	423.9	424.0	423.5	423.1	422.8	422.3
160°	430.2	430.8	430.8	430.5	430.2	429.8	429.5
162.5°	436.7	437.3	437.4	437.0	436.5	436.1	435.8
165°	445.0	445.6	445.7	445.2	444.8	444.4	443.9
167.5°	451.8	452.4	452.5	451.9	451.5	451.1	450.6
170°	455.5	456.1	456.2	455.6	455.1	454.6	454.1
172.5°	458.3	458.9	458.9	458.4	457.9	457.4	456.8
175°	461.3	461.9	462.0	461.5	461.0	460.5	459.9
177.5°	462.5	463.0	463.0	462.5	462.2	461.8	461.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3

(END OF REPORT)