

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: P331707-935

Luminaire Tested: **SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331707-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

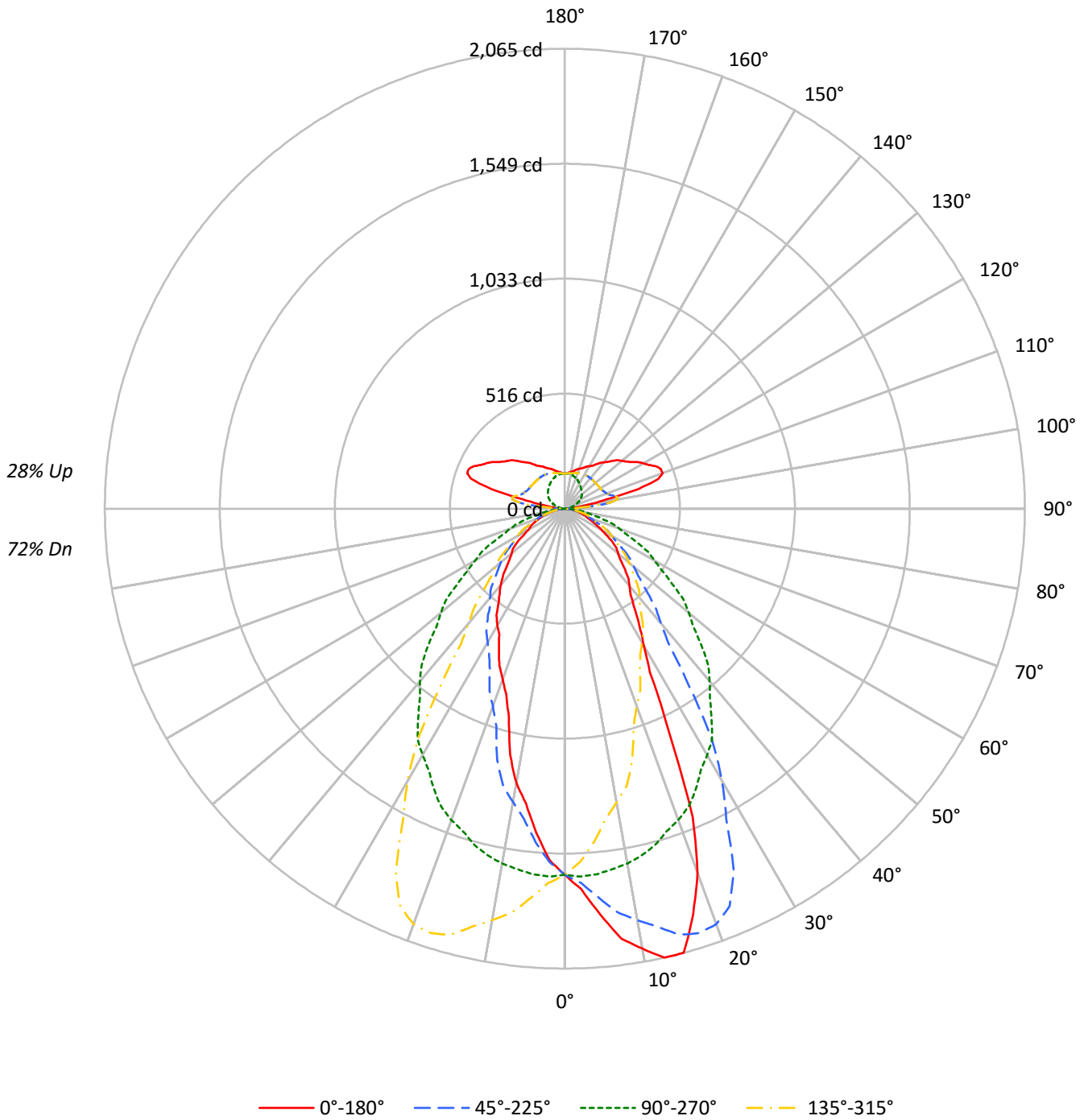
Lumens per Lamp: N/A  
Luminaire Lumens: 3943.7 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 43.5  
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	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	100	96	93	98	95	92	89	86	83	81	77	75	74	69	68	67	63
2	96	89	83	78	90	84	79	75	76	72	69	69	66	63	62	60	58	55
3	88	79	72	66	83	75	69	64	69	64	60	62	58	55	56	53	51	48
4	81	71	63	58	77	68	61	56	62	56	52	56	52	48	51	48	45	42
5	75	64	56	50	71	61	54	49	56	50	46	51	47	43	47	43	40	38
6	70	58	50	45	66	56	49	43	51	45	41	47	42	38	43	39	36	34
7	65	53	45	40	62	51	44	39	47	41	37	43	38	35	40	36	33	30
8	61	49	41	36	58	47	40	35	43	38	33	40	35	32	37	33	30	28
9	57	45	38	33	54	43	37	32	40	34	30	37	32	29	35	30	27	25
10	54	42	35	30	51	40	34	29	37	32	28	35	30	27	32	28	25	23

**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	4.0
10°-20°	434.3	11.0
20°-30°	559.6	14.2
30°-40°	531.8	13.5
40°-50°	455.6	11.6
50°-60°	346.9	8.8
60°-70°	219.3	5.6
70°-80°	109.5	2.8
80°-90°	29.9	0.8
90°-100°	63.3	1.6
100°-110°	214.7	5.4
110°-120°	228.0	5.8
120°-130°	187.7	4.8
130°-140°	150.7	3.8
140°-150°	113.9	2.9
150°-160°	80.1	2.0
160°-170°	47.1	1.2
170°-180°	15.3	0.4
0°-30°	1149.8	29.2
0°-40°	1681.6	42.6
0°-60°	2484.1	63.0
0°-90°	2842.9	72.1
90°-120°	505.9	12.8
90°-150°	958.3	24.3
90°-180°	1101.0	27.9
0°-180°	3943.7	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°	10	0	10	0	10	6
95°	35	11	35	11	35	45
105°	343	37	343	37	343	332
115°	451	65	451	65	451	442
125°	366	91	366	91	366	331
135°	303	107	303	107	303	236
145°	242	122	242	122	242	154
155°	204	139	204	139	204	95
165°	179	152	179	152	179	51
175°	161	158	161	158	161	16
180°	158	158	158	158	158	



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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°	9.3	9.8	9.8	9.8	9.8	9.7	9.6	10.2	9.8	10.3	9.8
90°	10.1	10.1	10.1	10.1	10.1	9.7	9.1	9.7	10.1	10.3	10.1
92.5°	16.9	17.3	17.1	18.1	18.3	20.2	22.7	26.5	33.4	39.5	39.0
95°	34.7	34.4	35.3	37.7	41.7	48.4	61.1	79.7	104.4	119.2	105.6
97.5°	68.3	70.9	75.3	82.7	97.3	119.2	152.1	186.0	213.5	203.5	153.3
100°	108.9	114.4	123.2	136.3	161.5	198.4	240.0	277.8	284.1	240.3	165.5
102.5°	191.7	199.1	210.1	232.4	259.8	298.9	329.3	337.9	310.4	241.5	160.8
105°	342.9	347.1	360.2	379.0	398.0	407.9	404.0	369.6	306.3	225.4	151.8
107.5°	438.0	443.6	446.3	447.3	444.9	430.2	398.6	346.7	279.7	208.1	147.3
110°	466.7	467.0	464.3	458.5	445.4	420.4	381.5	327.0	262.9	199.8	146.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	466.1	464.5	459.3	449.7	431.5	402.9	361.3	309.0	251.2	194.5	146.5
115°	451.2	448.4	440.5	426.5	404.9	373.6	333.7	286.9	236.7	188.6	147.8
117.5°	424.3	422.0	413.7	398.9	376.9	347.5	311.3	270.2	227.6	185.7	150.1
120°	407.1	404.0	395.2	380.9	359.6	331.9	299.6	261.9	222.7	184.1	151.5
122.5°	389.0	386.5	378.7	364.5	345.4	320.5	289.9	255.4	218.5	183.0	153.2
125°	366.0	363.5	355.9	344.4	326.7	303.9	277.2	245.8	212.7	181.3	155.8
127.5°	345.8	343.8	337.3	326.4	311.0	290.0	264.8	236.3	207.2	180.3	158.3
130°	334.3	331.9	325.8	315.5	300.6	280.5	256.5	230.3	203.5	179.8	160.3
132.5°	322.4	320.2	314.6	304.3	289.6	270.8	248.7	224.5	200.6	179.5	162.3
135°	303.3	302.1	296.6	286.5	273.5	256.5	236.3	216.3	196.5	179.2	164.6
137.5°	284.6	282.8	277.9	269.3	257.4	242.5	226.6	209.8	193.6	179.1	166.7
140°	271.6	269.8	265.3	257.4	247.6	234.3	220.2	205.6	191.9	178.9	167.6
142.5°	258.7	258.4	254.3	247.1	237.9	226.7	214.6	202.2	190.3	178.9	168.3
145°	242.1	241.3	238.2	233.0	225.8	216.9	207.5	197.4	188.0	178.2	169.1
147.5°	228.3	227.6	225.6	221.4	215.4	209.0	201.6	193.7	185.7	177.2	169.4
150°	220.0	219.6	217.8	214.1	209.6	204.1	197.8	191.1	183.7	176.4	169.1
152.5°	212.9	212.8	211.5	208.4	204.7	200.0	194.6	188.4	182.0	175.2	168.7
155°	203.5	204.1	202.9	200.8	197.4	194.1	189.5	184.7	178.9	173.1	167.9
157.5°	195.5	195.5	195.0	193.2	190.9	188.2	184.4	180.4	175.9	170.9	166.5
160°	190.5	190.5	190.1	188.6	186.5	184.3	181.0	177.6	173.7	169.4	165.8
162.5°	185.5	185.8	185.5	184.5	182.4	180.7	177.9	175.0	171.8	168.2	165.1
165°	178.6	178.9	178.9	177.6	176.4	175.2	173.1	171.0	168.5	165.8	163.7
167.5°	172.1	172.5	172.5	171.9	171.3	170.2	168.8	167.1	165.4	163.7	162.3
170°	168.2	168.8	169.1	168.2	167.9	167.3	166.1	165.2	163.7	162.5	161.5
172.5°	165.1	165.4	165.7	165.3	165.0	164.6	163.7	163.0	162.0	161.0	160.6
175°	160.9	161.5	161.9	161.5	161.5	161.3	160.9	160.7	159.7	159.4	159.1
177.5°	158.4	158.9	159.2	159.2	159.2	159.2	158.9	158.9	158.4	158.2	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



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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°	9.4	9.5	9.1	8.5	8.9	9.2	11.2	13.3	11.7	10.5	9.7
90°	8.2	6.1	4.6	3.6	3.0	2.4	1.2	0.3	1.2	2.4	3.0
92.5°	30.4	20.7	13.8	10.9	8.9	7.6	5.3	3.7	5.3	7.6	8.9
95°	70.3	43.8	29.8	22.5	17.7	14.9	11.9	10.7	11.9	14.9	17.7
97.5°	94.7	57.8	40.2	31.9	26.3	22.2	18.9	17.3	18.9	22.2	26.3
100°	99.8	62.7	46.6	38.1	31.9	27.0	24.4	23.4	24.4	27.0	31.9
102.5°	100.0	67.1	52.2	43.7	37.3	32.5	29.7	29.0	29.7	32.5	37.3
105°	101.6	74.6	60.3	51.7	45.0	40.5	38.3	37.1	38.3	40.5	45.0
107.5°	105.8	82.2	68.4	59.8	53.1	48.9	46.8	45.9	46.8	48.9	53.1
110°	109.2	87.3	74.0	65.1	58.7	54.8	53.0	51.7	53.0	54.8	58.7





TEST NUMBER: P331707-935

CATALOG NUMBER: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	112.9	92.2	79.3	70.2	64.1	60.4	58.3	57.1	58.3	60.4	64.1
115°	118.3	99.8	86.7	78.5	72.4	68.8	66.9	65.4	66.9	68.8	72.4
117.5°	124.2	106.8	94.7	86.2	80.3	77.1	75.3	74.0	75.3	77.1	80.3
120°	128.1	111.7	99.8	91.3	85.2	82.5	80.6	79.4	80.6	82.5	85.2
122.5°	131.5	116.2	105.1	96.3	90.3	87.3	85.5	84.6	85.5	87.3	90.3
125°	136.9	123.2	112.3	103.8	97.6	94.0	92.2	91.3	92.2	94.0	97.6
127.5°	142.0	129.7	119.0	110.2	104.4	100.4	97.8	96.6	97.8	100.4	104.4
130°	145.1	133.5	122.9	114.4	108.3	104.0	101.0	99.8	101.0	104.0	108.3
132.5°	148.3	137.0	126.8	118.3	111.9	107.5	104.2	102.7	104.2	107.5	111.9
135°	152.4	141.8	132.0	123.6	116.5	111.9	108.3	107.1	108.3	111.9	116.5
137.5°	155.6	145.7	136.0	128.1	121.2	116.3	112.7	111.2	112.7	116.3	121.2
140°	157.3	147.8	138.7	130.8	124.2	119.2	115.6	114.4	115.6	119.2	124.2
142.5°	158.8	149.6	140.7	133.3	126.8	121.9	118.6	117.5	118.6	121.9	126.8
145°	160.7	152.1	143.9	137.2	131.1	126.6	123.6	122.3	123.6	126.6	131.1
147.5°	161.7	154.2	146.5	140.5	135.4	131.2	128.3	127.4	128.3	131.2	135.4
150°	162.1	155.2	148.2	142.7	138.1	134.1	131.7	130.8	131.7	134.1	138.1
152.5°	162.4	156.1	149.8	144.9	140.5	137.1	134.7	134.2	134.7	137.1	140.5
155°	162.7	157.6	152.4	147.8	144.5	141.1	139.3	139.1	139.3	141.1	144.5
157.5°	162.7	158.6	154.2	150.4	147.7	144.8	143.4	143.0	143.4	144.8	147.7
160°	162.7	159.1	155.5	152.1	149.6	147.2	146.0	145.7	146.0	147.2	149.6
162.5°	162.5	159.4	156.2	153.6	151.4	149.5	148.2	148.4	148.2	149.5	151.4
165°	161.9	159.7	157.0	155.2	153.6	151.8	151.2	151.5	151.2	151.8	153.6
167.5°	161.4	159.6	157.6	156.5	155.4	154.2	153.7	154.0	153.7	154.2	155.4
170°	160.9	159.4	157.9	157.0	156.4	155.5	155.2	155.8	155.2	155.5	156.4
172.5°	160.2	159.2	158.2	157.5	157.1	156.2	156.4	156.7	156.4	156.2	157.1
175°	159.4	158.8	158.2	157.9	157.9	157.3	157.6	157.9	157.6	157.3	157.9
177.5°	158.9	158.4	158.2	158.2	158.2	157.7	157.9	158.4	157.9	157.7	158.2
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331707-935  
 CATALOG NUMBER: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4

**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°	9.4	9.1	8.5	9.0	9.3	9.0	8.9	8.4	8.3	8.4	7.9
90°	3.6	4.6	6.1	8.2	10.1	10.3	10.1	9.7	9.1	9.7	10.1
92.5°	10.9	13.8	20.7	30.4	39.0	39.5	33.4	26.5	22.7	20.2	18.3
95°	22.5	29.8	43.8	70.3	105.6	119.2	104.4	79.7	61.1	48.4	41.7
97.5°	31.9	40.2	57.8	94.7	153.3	203.5	213.5	186.0	152.1	119.2	97.3
100°	38.1	46.6	62.7	99.8	165.5	240.3	284.1	277.8	240.0	198.4	161.5
102.5°	43.7	52.2	67.1	100.0	160.8	241.5	310.4	337.9	329.3	298.9	259.8
105°	51.7	60.3	74.6	101.6	151.8	225.4	306.3	369.6	404.0	407.9	398.0
107.5°	59.8	68.4	82.2	105.8	147.3	208.1	279.7	346.7	398.6	430.2	444.9
110°	65.1	74.0	87.3	109.2	146.4	199.8	262.9	327.0	381.5	420.4	445.4



TEST NUMBER: P331707-935

CATALOG NUMBER: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	70.2	79.3	92.2	112.9	146.5	194.5	251.2	309.0	361.3	402.9	431.5
115°	78.5	86.7	99.8	118.3	147.8	188.6	236.7	286.9	333.7	373.6	404.9
117.5°	86.2	94.7	106.8	124.2	150.1	185.7	227.6	270.2	311.3	347.5	376.9
120°	91.3	99.8	111.7	128.1	151.5	184.1	222.7	261.9	299.6	331.9	359.6
122.5°	96.3	105.1	116.2	131.5	153.2	183.0	218.5	255.4	289.9	320.5	345.4
125°	103.8	112.3	123.2	136.9	155.8	181.3	212.7	245.8	277.2	303.9	326.7
127.5°	110.2	119.0	129.7	142.0	158.3	180.3	207.2	236.3	264.8	290.0	311.0
130°	114.4	122.9	133.5	145.1	160.3	179.8	203.5	230.3	256.5	280.5	300.6
132.5°	118.3	126.8	137.0	148.3	162.3	179.5	200.6	224.5	248.7	270.8	289.6
135°	123.6	132.0	141.8	152.4	164.6	179.2	196.5	216.3	236.3	256.5	273.5
137.5°	128.1	136.0	145.7	155.6	166.7	179.1	193.6	209.8	226.6	242.5	257.4
140°	130.8	138.7	147.8	157.3	167.6	178.9	191.9	205.6	220.2	234.3	247.6
142.5°	133.3	140.7	149.6	158.8	168.3	178.9	190.3	202.2	214.6	226.7	237.9
145°	137.2	143.9	152.1	160.7	169.1	178.2	188.0	197.4	207.5	216.9	225.8
147.5°	140.5	146.5	154.2	161.7	169.4	177.2	185.7	193.7	201.6	209.0	215.4
150°	142.7	148.2	155.2	162.1	169.1	176.4	183.7	191.1	197.8	204.1	209.6
152.5°	144.9	149.8	156.1	162.4	168.7	175.2	182.0	188.4	194.6	200.0	204.7
155°	147.8	152.4	157.6	162.7	167.9	173.1	178.9	184.7	189.5	194.1	197.4
157.5°	150.4	154.2	158.6	162.7	166.5	170.9	175.9	180.4	184.4	188.2	190.9
160°	152.1	155.5	159.1	162.7	165.8	169.4	173.7	177.6	181.0	184.3	186.5
162.5°	153.6	156.2	159.4	162.5	165.1	168.2	171.8	175.0	177.9	180.7	182.4
165°	155.2	157.0	159.7	161.9	163.7	165.8	168.5	171.0	173.1	175.2	176.4
167.5°	156.5	157.6	159.6	161.4	162.3	163.7	165.4	167.1	168.8	170.2	171.3
170°	157.0	157.9	159.4	160.9	161.5	162.5	163.7	165.2	166.1	167.3	167.9
172.5°	157.5	158.2	159.2	160.2	160.6	161.0	162.0	163.0	163.7	164.6	165.0
175°	157.9	158.2	158.8	159.4	159.1	159.4	159.7	160.7	160.9	161.3	161.5
177.5°	158.2	158.2	158.4	158.9	158.4	158.2	158.4	158.9	158.9	159.2	159.2
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331707-935

CATALOG NUMBER: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4

**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°	7.9	7.5	7.9	7.5	7.9	7.5	7.9	7.9	8.4	8.3	8.4
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.7	9.1	9.7
92.5°	18.1	17.1	17.3	16.9	17.3	17.1	18.1	18.3	20.2	22.7	26.5
95°	37.7	35.3	34.4	34.7	34.4	35.3	37.7	41.7	48.4	61.1	79.7
97.5°	82.7	75.3	70.9	68.3	70.9	75.3	82.7	97.3	119.2	152.1	186.0
100°	136.3	123.2	114.4	108.9	114.4	123.2	136.3	161.5	198.4	240.0	277.8
102.5°	232.4	210.1	199.1	191.7	199.1	210.1	232.4	259.8	298.9	329.3	337.9
105°	379.0	360.2	347.1	342.9	347.1	360.2	379.0	398.0	407.9	404.0	369.6
107.5°	447.3	446.3	443.6	438.0	443.6	446.3	447.3	444.9	430.2	398.6	346.7
110°	458.5	464.3	467.0	466.7	467.0	464.3	458.5	445.4	420.4	381.5	327.0



TEST NUMBER: P331707-935

CATALOG NUMBER: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	449.7	459.3	464.5	466.1	464.5	459.3	449.7	431.5	402.9	361.3	309.0
115°	426.5	440.5	448.4	451.2	448.4	440.5	426.5	404.9	373.6	333.7	286.9
117.5°	398.9	413.7	422.0	424.3	422.0	413.7	398.9	376.9	347.5	311.3	270.2
120°	380.9	395.2	404.0	407.1	404.0	395.2	380.9	359.6	331.9	299.6	261.9
122.5°	364.5	378.7	386.5	389.0	386.5	378.7	364.5	345.4	320.5	289.9	255.4
125°	344.4	355.9	363.5	366.0	363.5	355.9	344.4	326.7	303.9	277.2	245.8
127.5°	326.4	337.3	343.8	345.8	343.8	337.3	326.4	311.0	290.0	264.8	236.3
130°	315.5	325.8	331.9	334.3	331.9	325.8	315.5	300.6	280.5	256.5	230.3
132.5°	304.3	314.6	320.2	322.4	320.2	314.6	304.3	289.6	270.8	248.7	224.5
135°	286.5	296.6	302.1	303.3	302.1	296.6	286.5	273.5	256.5	236.3	216.3
137.5°	269.3	277.9	282.8	284.6	282.8	277.9	269.3	257.4	242.5	226.6	209.8
140°	257.4	265.3	269.8	271.6	269.8	265.3	257.4	247.6	234.3	220.2	205.6
142.5°	247.1	254.3	258.4	258.7	258.4	254.3	247.1	237.9	226.7	214.6	202.2
145°	233.0	238.2	241.3	242.1	241.3	238.2	233.0	225.8	216.9	207.5	197.4
147.5°	221.4	225.6	227.6	228.3	227.6	225.6	221.4	215.4	209.0	201.6	193.7
150°	214.1	217.8	219.6	220.0	219.6	217.8	214.1	209.6	204.1	197.8	191.1
152.5°	208.4	211.5	212.8	212.9	212.8	211.5	208.4	204.7	200.0	194.6	188.4
155°	200.8	202.9	204.1	203.5	204.1	202.9	200.8	197.4	194.1	189.5	184.7
157.5°	193.2	195.0	195.5	195.5	195.5	195.0	193.2	190.9	188.2	184.4	180.4
160°	188.6	190.1	190.5	190.5	190.5	190.1	188.6	186.5	184.3	181.0	177.6
162.5°	184.5	185.5	185.8	185.5	185.8	185.5	184.5	182.4	180.7	177.9	175.0
165°	177.6	178.9	178.9	178.6	178.9	178.9	177.6	176.4	175.2	173.1	171.0
167.5°	171.9	172.5	172.5	172.1	172.5	172.5	171.9	171.3	170.2	168.8	167.1
170°	168.2	169.1	168.8	168.2	168.8	169.1	168.2	167.9	167.3	166.1	165.2
172.5°	165.3	165.7	165.4	165.1	165.4	165.7	165.3	165.0	164.6	163.7	163.0
175°	161.5	161.9	161.5	160.9	161.5	161.9	161.5	161.5	161.3	160.9	160.7
177.5°	159.2	159.2	158.9	158.4	158.9	159.2	159.2	159.2	159.2	158.9	158.9
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331707-935

CATALOG NUMBER: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4

**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°	8.9	9.0	9.3	9.0	8.5	9.1	9.4	9.7	10.5	11.7	13.3
90°	10.1	10.3	10.1	8.2	6.1	4.6	3.6	3.0	2.4	1.2	0.3
92.5°	33.4	39.5	39.0	30.4	20.7	13.8	10.9	8.9	7.6	5.3	3.7
95°	104.4	119.2	105.6	70.3	43.8	29.8	22.5	17.7	14.9	11.9	10.7
97.5°	213.5	203.5	153.3	94.7	57.8	40.2	31.9	26.3	22.2	18.9	17.3
100°	284.1	240.3	165.5	99.8	62.7	46.6	38.1	31.9	27.0	24.4	23.4
102.5°	310.4	241.5	160.8	100.0	67.1	52.2	43.7	37.3	32.5	29.7	29.0
105°	306.3	225.4	151.8	101.6	74.6	60.3	51.7	45.0	40.5	38.3	37.1
107.5°	279.7	208.1	147.3	105.8	82.2	68.4	59.8	53.1	48.9	46.8	45.9
110°	262.9	199.8	146.4	109.2	87.3	74.0	65.1	58.7	54.8	53.0	51.7



TEST NUMBER: P331707-935

CATALOG NUMBER: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	251.2	194.5	146.5	112.9	92.2	79.3	70.2	64.1	60.4	58.3	57.1
115°	236.7	188.6	147.8	118.3	99.8	86.7	78.5	72.4	68.8	66.9	65.4
117.5°	227.6	185.7	150.1	124.2	106.8	94.7	86.2	80.3	77.1	75.3	74.0
120°	222.7	184.1	151.5	128.1	111.7	99.8	91.3	85.2	82.5	80.6	79.4
122.5°	218.5	183.0	153.2	131.5	116.2	105.1	96.3	90.3	87.3	85.5	84.6
125°	212.7	181.3	155.8	136.9	123.2	112.3	103.8	97.6	94.0	92.2	91.3
127.5°	207.2	180.3	158.3	142.0	129.7	119.0	110.2	104.4	100.4	97.8	96.6
130°	203.5	179.8	160.3	145.1	133.5	122.9	114.4	108.3	104.0	101.0	99.8
132.5°	200.6	179.5	162.3	148.3	137.0	126.8	118.3	111.9	107.5	104.2	102.7
135°	196.5	179.2	164.6	152.4	141.8	132.0	123.6	116.5	111.9	108.3	107.1
137.5°	193.6	179.1	166.7	155.6	145.7	136.0	128.1	121.2	116.3	112.7	111.2
140°	191.9	178.9	167.6	157.3	147.8	138.7	130.8	124.2	119.2	115.6	114.4
142.5°	190.3	178.9	168.3	158.8	149.6	140.7	133.3	126.8	121.9	118.6	117.5
145°	188.0	178.2	169.1	160.7	152.1	143.9	137.2	131.1	126.6	123.6	122.3
147.5°	185.7	177.2	169.4	161.7	154.2	146.5	140.5	135.4	131.2	128.3	127.4
150°	183.7	176.4	169.1	162.1	155.2	148.2	142.7	138.1	134.1	131.7	130.8
152.5°	182.0	175.2	168.7	162.4	156.1	149.8	144.9	140.5	137.1	134.7	134.2
155°	178.9	173.1	167.9	162.7	157.6	152.4	147.8	144.5	141.1	139.3	139.1
157.5°	175.9	170.9	166.5	162.7	158.6	154.2	150.4	147.7	144.8	143.4	143.0
160°	173.7	169.4	165.8	162.7	159.1	155.5	152.1	149.6	147.2	146.0	145.7
162.5°	171.8	168.2	165.1	162.5	159.4	156.2	153.6	151.4	149.5	148.2	148.4
165°	168.5	165.8	163.7	161.9	159.7	157.0	155.2	153.6	151.8	151.2	151.5
167.5°	165.4	163.7	162.3	161.4	159.6	157.6	156.5	155.4	154.2	153.7	154.0
170°	163.7	162.5	161.5	160.9	159.4	157.9	157.0	156.4	155.5	155.2	155.8
172.5°	162.0	161.0	160.6	160.2	159.2	158.2	157.5	157.1	156.2	156.4	156.7
175°	159.7	159.4	159.1	159.4	158.8	158.2	157.9	157.9	157.3	157.6	157.9
177.5°	158.4	158.2	158.4	158.9	158.4	158.2	158.2	158.2	157.7	157.9	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2





TEST NUMBER: P331707-935  
 CATALOG NUMBER: SA2XXRDIP-C865D330U935-4F0-1E-UDD-A4

**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°	11.2	9.2	8.9	8.5	9.1	9.5	9.4	9.8	10.3	9.8	10.2
90°	1.2	2.4	3.0	3.6	4.6	6.1	8.2	10.1	10.3	10.1	9.7
92.5°	5.3	7.6	8.9	10.9	13.8	20.7	30.4	39.0	39.5	33.4	26.5
95°	11.9	14.9	17.7	22.5	29.8	43.8	70.3	105.6	119.2	104.4	79.7
97.5°	18.9	22.2	26.3	31.9	40.2	57.8	94.7	153.3	203.5	213.5	186.0
100°	24.4	27.0	31.9	38.1	46.6	62.7	99.8	165.5	240.3	284.1	277.8
102.5°	29.7	32.5	37.3	43.7	52.2	67.1	100.0	160.8	241.5	310.4	337.9
105°	38.3	40.5	45.0	51.7	60.3	74.6	101.6	151.8	225.4	306.3	369.6
107.5°	46.8	48.9	53.1	59.8	68.4	82.2	105.8	147.3	208.1	279.7	346.7
110°	53.0	54.8	58.7	65.1	74.0	87.3	109.2	146.4	199.8	262.9	327.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	58.3	60.4	64.1	70.2	79.3	92.2	112.9	146.5	194.5	251.2	309.0
115°	66.9	68.8	72.4	78.5	86.7	99.8	118.3	147.8	188.6	236.7	286.9
117.5°	75.3	77.1	80.3	86.2	94.7	106.8	124.2	150.1	185.7	227.6	270.2
120°	80.6	82.5	85.2	91.3	99.8	111.7	128.1	151.5	184.1	222.7	261.9
122.5°	85.5	87.3	90.3	96.3	105.1	116.2	131.5	153.2	183.0	218.5	255.4
125°	92.2	94.0	97.6	103.8	112.3	123.2	136.9	155.8	181.3	212.7	245.8
127.5°	97.8	100.4	104.4	110.2	119.0	129.7	142.0	158.3	180.3	207.2	236.3
130°	101.0	104.0	108.3	114.4	122.9	133.5	145.1	160.3	179.8	203.5	230.3
132.5°	104.2	107.5	111.9	118.3	126.8	137.0	148.3	162.3	179.5	200.6	224.5
135°	108.3	111.9	116.5	123.6	132.0	141.8	152.4	164.6	179.2	196.5	216.3
137.5°	112.7	116.3	121.2	128.1	136.0	145.7	155.6	166.7	179.1	193.6	209.8
140°	115.6	119.2	124.2	130.8	138.7	147.8	157.3	167.6	178.9	191.9	205.6
142.5°	118.6	121.9	126.8	133.3	140.7	149.6	158.8	168.3	178.9	190.3	202.2
145°	123.6	126.6	131.1	137.2	143.9	152.1	160.7	169.1	178.2	188.0	197.4
147.5°	128.3	131.2	135.4	140.5	146.5	154.2	161.7	169.4	177.2	185.7	193.7
150°	131.7	134.1	138.1	142.7	148.2	155.2	162.1	169.1	176.4	183.7	191.1
152.5°	134.7	137.1	140.5	144.9	149.8	156.1	162.4	168.7	175.2	182.0	188.4
155°	139.3	141.1	144.5	147.8	152.4	157.6	162.7	167.9	173.1	178.9	184.7
157.5°	143.4	144.8	147.7	150.4	154.2	158.6	162.7	166.5	170.9	175.9	180.4
160°	146.0	147.2	149.6	152.1	155.5	159.1	162.7	165.8	169.4	173.7	177.6
162.5°	148.2	149.5	151.4	153.6	156.2	159.4	162.5	165.1	168.2	171.8	175.0
165°	151.2	151.8	153.6	155.2	157.0	159.7	161.9	163.7	165.8	168.5	171.0
167.5°	153.7	154.2	155.4	156.5	157.6	159.6	161.4	162.3	163.7	165.4	167.1
170°	155.2	155.5	156.4	157.0	157.9	159.4	160.9	161.5	162.5	163.7	165.2
172.5°	156.4	156.2	157.1	157.5	158.2	159.2	160.2	160.6	161.0	162.0	163.0
175°	157.6	157.3	157.9	157.9	158.2	158.8	159.4	159.1	159.4	159.7	160.7
177.5°	157.9	157.7	158.2	158.2	158.2	158.4	158.9	158.4	158.2	158.4	158.9
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



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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°	9.6	9.7	9.8	9.8	9.8	9.8	9.3
90°	9.1	9.7	10.1	10.1	10.1	10.1	10.1
92.5°	22.7	20.2	18.3	18.1	17.1	17.3	16.9
95°	61.1	48.4	41.7	37.7	35.3	34.4	34.7
97.5°	152.1	119.2	97.3	82.7	75.3	70.9	68.3
100°	240.0	198.4	161.5	136.3	123.2	114.4	108.9
102.5°	329.3	298.9	259.8	232.4	210.1	199.1	191.7
105°	404.0	407.9	398.0	379.0	360.2	347.1	342.9
107.5°	398.6	430.2	444.9	447.3	446.3	443.6	438.0
110°	381.5	420.4	445.4	458.5	464.3	467.0	466.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.3	402.9	431.5	449.7	459.3	464.5	466.1
115°	333.7	373.6	404.9	426.5	440.5	448.4	451.2
117.5°	311.3	347.5	376.9	398.9	413.7	422.0	424.3
120°	299.6	331.9	359.6	380.9	395.2	404.0	407.1
122.5°	289.9	320.5	345.4	364.5	378.7	386.5	389.0
125°	277.2	303.9	326.7	344.4	355.9	363.5	366.0
127.5°	264.8	290.0	311.0	326.4	337.3	343.8	345.8
130°	256.5	280.5	300.6	315.5	325.8	331.9	334.3
132.5°	248.7	270.8	289.6	304.3	314.6	320.2	322.4
135°	236.3	256.5	273.5	286.5	296.6	302.1	303.3
137.5°	226.6	242.5	257.4	269.3	277.9	282.8	284.6
140°	220.2	234.3	247.6	257.4	265.3	269.8	271.6
142.5°	214.6	226.7	237.9	247.1	254.3	258.4	258.7
145°	207.5	216.9	225.8	233.0	238.2	241.3	242.1
147.5°	201.6	209.0	215.4	221.4	225.6	227.6	228.3
150°	197.8	204.1	209.6	214.1	217.8	219.6	220.0
152.5°	194.6	200.0	204.7	208.4	211.5	212.8	212.9
155°	189.5	194.1	197.4	200.8	202.9	204.1	203.5
157.5°	184.4	188.2	190.9	193.2	195.0	195.5	195.5
160°	181.0	184.3	186.5	188.6	190.1	190.5	190.5
162.5°	177.9	180.7	182.4	184.5	185.5	185.8	185.5
165°	173.1	175.2	176.4	177.6	178.9	178.9	178.6
167.5°	168.8	170.2	171.3	171.9	172.5	172.5	172.1
170°	166.1	167.3	167.9	168.2	169.1	168.8	168.2
172.5°	163.7	164.6	165.0	165.3	165.7	165.4	165.1
175°	160.9	161.3	161.5	161.5	161.9	161.5	160.9
177.5°	158.9	159.2	159.2	159.2	159.2	158.9	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2

(END OF REPORT)