

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: P331677-840

Luminaire Tested: **SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331677-840  
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-C675D330U840-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

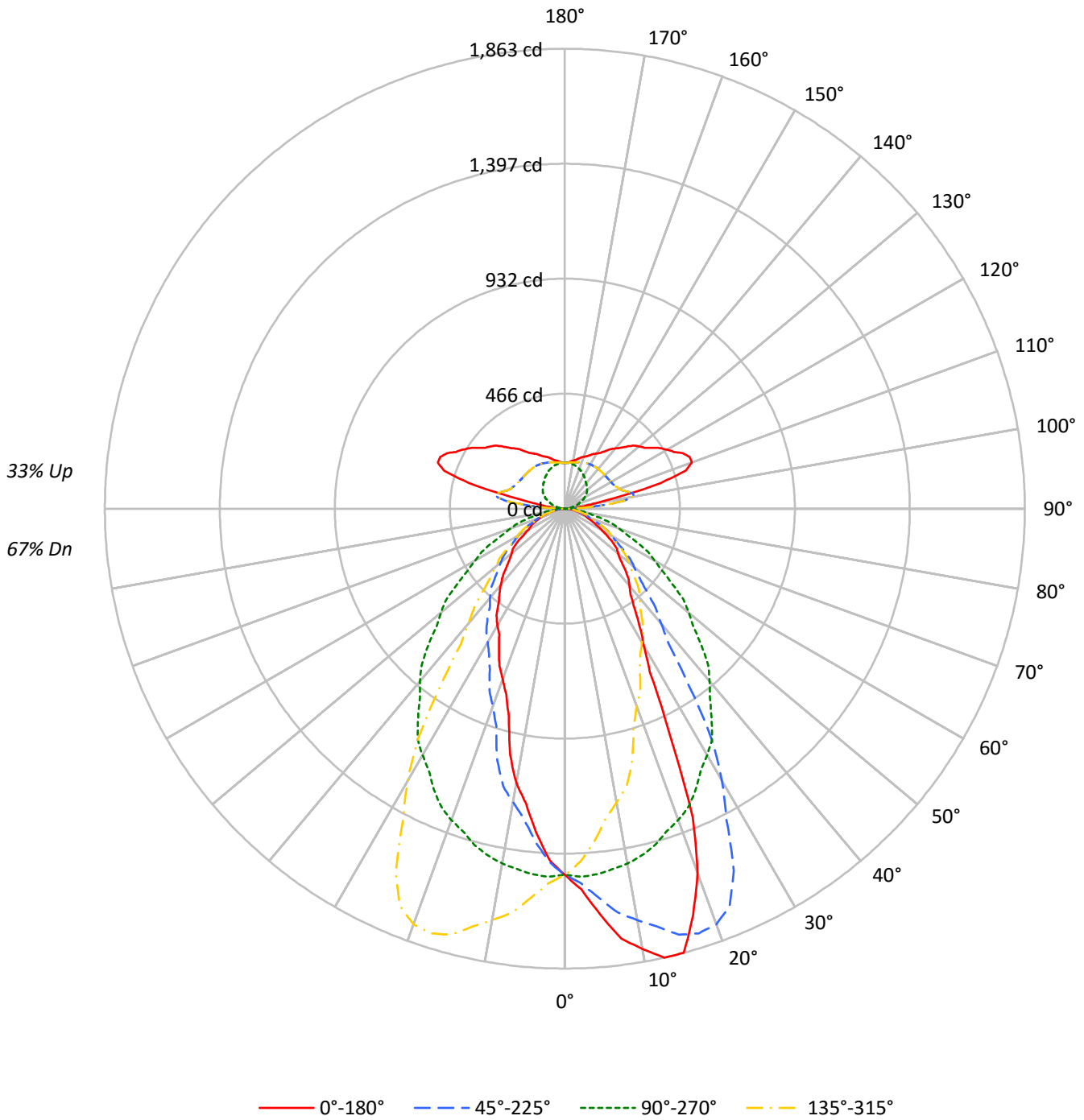
Lumens per Lamp: N/A  
Luminaire Lumens: 3856.8 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	81	81	81	71	71	71	67				
1	102	98	95	92	96	93	90	87	83	80	78	73	72	70	65	63	62	58				
2	94	87	82	77	89	83	78	73	74	70	67	66	63	60	58	56	54	50				
3	87	78	71	65	82	74	68	63	66	61	57	59	55	52	53	50	47	44				
4	80	70	62	56	75	66	59	54	60	54	50	54	49	46	48	45	42	39				
5	74	63	55	49	70	60	53	48	54	48	44	49	44	41	44	40	37	35				
6	69	57	49	44	65	54	47	42	49	44	39	45	40	36	40	36	34	31				
7	64	52	44	39	60	50	43	38	45	39	35	41	36	33	37	33	30	28				
8	60	48	40	35	56	46	39	34	42	36	32	38	33	30	34	31	28	26				
9	56	44	37	32	53	42	35	31	39	33	29	35	31	27	32	28	25	23				
10	53	41	34	29	50	39	33	28	36	30	27	33	28	25	30	26	23	22				

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

	0°	90°	180°	270°
0°	23954	23954	23954	23954
5°	26752	24104	21371	24104
10°	29681	23935	18525	23935
15°	31141	23584	14596	23584
20°	26996	23063	12631	23063
25°	17706	22352	11277	22352
30°	11917	21490	10206	21490
35°	9652	20402	9207	20402
40°	8585	19220	8517	19220
45°	7768	17831	7606	17831
50°	7068	16458	7043	16458
55°	6646	14933	6559	14933
60°	5561	13533	5493	13533
65°	4688	12287	5318	12287
70°	4334	10976	5013	10976
75°	4049	9551	4629	9551
80°	3738	7857	4119	7857
85°	3446	6206	3631	6206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	3.6
10°-20°	391.9	10.2
20°-30°	505.0	13.1
30°-40°	479.9	12.4
40°-50°	411.1	10.7
50°-60°	313.0	8.1
60°-70°	197.9	5.1
70°-80°	98.8	2.6
80°-90°	27.4	0.7
90°-100°	74.2	1.9
100°-110°	251.8	6.5
110°-120°	267.5	6.9
120°-130°	220.2	5.7
130°-140°	176.8	4.6
140°-150°	133.6	3.5
150°-160°	93.9	2.4
160°-170°	55.3	1.4
170°-180°	18.0	0.5
0°-30°	1037.5	26.9
0°-40°	1517.4	39.3
0°-60°	2241.5	58.1
0°-90°	2565.6	66.5
90°-120°	593.4	15.4
90°-150°	1124.0	29.1
90°-180°	1291.0	33.5
0°-180°	3856.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1484	1484	1484	1484	1484	
5°	1651	1487	1319	1487	1651	163
15°	1863	1411	873	1411	1863	503
25°	994	1255	633	1255	994	472
35°	490	1035	467	1035	490	313
45°	340	781	333	781	340	263
55°	236	530	233	530	236	207
65°	123	322	139	322	123	125
75°	65	153	74	153	65	69
85°	19	34	20	34	19	20
90°	12	0	12	0	12	7
95°	41	12	41	12	41	53
105°	402	44	402	44	402	389
115°	529	77	529	77	529	518
125°	429	107	429	107	429	388
135°	356	126	356	126	356	276
145°	284	143	284	143	284	180
155°	239	163	239	163	239	111
165°	209	178	209	178	209	60
175°	189	185	189	185	189	18
180°	186	186	186	186	186	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1543.8	1545.0	1546.3	1543.4	1543.4	1540.9	1535.5	1531.5	1519.8	1518.2	1518.2
5°	1650.6	1649.5	1651.6	1645.0	1635.7	1633.6	1623.8	1610.9	1597.5	1582.6	1579.4
7.5°	1756.8	1755.2	1751.1	1750.0	1742.8	1727.3	1711.5	1694.8	1672.4	1650.7	1639.8
10°	1810.4	1827.5	1817.1	1799.1	1802.7	1778.5	1765.5	1743.4	1724.8	1692.3	1685.2
12.5°	1863.2	1869.9	1866.6	1856.3	1851.7	1834.9	1817.6	1798.3	1764.0	1734.8	1709.5
15°	1863.0	1872.8	1875.3	1872.3	1874.8	1873.8	1864.5	1848.6	1818.7	1786.7	1758.9
17.5°	1725.5	1732.2	1749.2	1760.6	1775.0	1805.5	1820.6	1826.4	1822.0	1803.8	1784.2
20°	1571.2	1559.8	1607.3	1631.5	1652.1	1703.6	1748.0	1765.0	1792.3	1791.8	1786.7
22.5°	1352.6	1355.3	1400.3	1429.1	1489.2	1540.8	1591.3	1655.4	1708.2	1743.1	1763.6
25°	993.9	1013.5	1058.3	1097.5	1164.5	1260.4	1347.5	1448.6	1543.9	1619.1	1690.8
27.5°	746.4	747.9	783.5	819.6	859.4	938.0	1047.6	1168.3	1304.2	1416.4	1545.5
30°	639.2	636.1	651.1	673.3	707.2	768.1	850.5	969.2	1104.7	1273.7	1424.3
32.5°	563.3	563.5	574.8	591.2	619.5	660.5	716.9	813.2	941.4	1107.6	1284.0
35°	489.7	489.2	497.5	509.3	521.2	547.4	586.1	636.6	724.8	879.9	1060.4
37.5°	437.0	439.2	443.2	450.6	463.7	478.4	501.6	535.5	598.2	690.0	841.7
40°	407.3	408.3	413.9	420.1	427.9	439.2	458.3	485.5	531.5	604.7	715.5
42.5°	380.0	381.0	385.1	390.8	396.9	408.3	424.0	447.7	484.8	542.0	633.4
45°	340.2	340.2	343.9	346.4	353.1	363.5	376.3	395.9	421.7	463.9	524.7
47.5°	302.9	303.0	305.4	309.8	314.1	322.0	334.8	350.7	369.5	402.2	454.1
50°	281.4	282.0	283.5	287.1	289.7	296.9	306.7	320.6	340.2	365.5	408.8
52.5°	264.2	263.8	265.8	267.3	269.1	274.3	281.6	293.9	311.3	333.4	369.2
55°	236.1	234.0	237.1	239.7	241.3	243.3	247.4	255.2	270.1	288.7	315.5
57.5°	201.1	200.3	202.4	204.8	209.6	215.2	218.6	223.6	231.4	244.7	271.2
60°	172.2	172.2	176.8	178.3	184.0	191.3	198.4	202.6	210.4	219.0	238.6
62.5°	146.6	147.0	149.2	150.8	153.9	162.8	172.9	182.0	189.2	197.6	210.7
65°	122.7	123.7	123.7	124.7	126.8	128.9	133.0	140.2	153.1	164.9	174.7
67.5°	104.1	104.4	104.7	105.7	106.3	108.6	110.2	113.4	116.4	127.6	139.8
70°	91.8	93.3	92.8	93.8	94.3	95.3	97.5	99.0	103.6	106.2	113.4
72.5°	80.2	81.3	81.2	81.9	83.2	83.4	85.0	86.6	89.6	91.8	95.6
75°	64.9	64.4	64.9	65.9	66.4	67.1	67.1	69.1	70.6	72.7	75.2
77.5°	50.1	50.6	50.5	50.6	50.7	51.6	51.5	52.5	54.0	55.0	56.2
80°	40.2	40.7	40.2	40.7	41.2	41.7	41.2	41.7	43.3	44.3	44.3
82.5°	31.1	31.2	31.5	31.6	31.7	31.8	32.6	32.7	33.8	33.6	34.0
85°	18.6	18.1	18.1	18.1	18.6	19.1	18.6	18.6	19.1	19.1	19.1
87.5°	9.0	9.4	9.4	9.4	9.4	9.3	9.2	9.7	9.4	9.9	9.4
90°	11.8	11.8	11.8	11.8	11.8	11.4	10.7	11.4	11.8	12.1	11.8
92.5°	19.8	20.3	20.1	21.2	21.5	23.7	26.7	31.1	39.2	46.4	45.7
95°	40.7	40.3	41.4	44.2	48.9	56.8	71.7	93.5	122.4	139.9	123.8
97.5°	80.1	83.1	88.3	97.0	114.1	139.9	178.4	218.1	250.4	238.7	179.9
100°	127.7	134.2	144.5	159.9	189.5	232.7	281.6	325.8	333.3	281.9	194.1
102.5°	224.8	233.5	246.4	272.6	304.8	350.5	386.3	396.3	364.1	283.3	188.6
105°	402.1	407.1	422.4	444.5	466.8	478.5	473.8	433.5	359.3	264.4	178.0
107.5°	513.7	520.3	523.4	524.6	521.8	504.5	467.5	406.7	328.0	244.1	172.8
110°	547.3	547.8	544.5	537.8	522.4	493.1	447.5	383.5	308.3	234.4	171.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	546.7	544.8	538.8	527.5	506.1	472.5	423.7	362.4	294.6	228.1	171.9
115°	529.2	525.9	516.6	500.3	474.9	438.2	391.4	336.5	277.6	221.3	173.4
117.5°	497.7	494.9	485.2	467.9	442.0	407.6	365.2	316.9	266.9	217.8	176.0
120°	477.5	473.8	463.5	446.8	421.7	389.3	351.4	307.2	261.2	215.9	177.7
122.5°	456.3	453.3	444.1	427.6	405.2	375.9	340.0	299.5	256.3	214.7	179.7
125°	429.3	426.4	417.5	403.9	383.2	356.5	325.1	288.3	249.4	212.7	182.7
127.5°	405.6	403.2	395.6	382.8	364.8	340.1	310.5	277.2	243.0	211.5	185.7
130°	392.1	389.3	382.1	370.0	352.5	329.0	300.8	270.1	238.7	210.9	188.0
132.5°	378.2	375.6	369.0	356.9	339.7	317.6	291.6	263.3	235.3	210.6	190.4
135°	355.8	354.4	347.9	336.1	320.7	300.8	277.2	253.7	230.5	210.2	193.1
137.5°	333.8	331.6	326.0	315.9	301.8	284.5	265.8	246.1	227.1	210.1	195.5
140°	318.6	316.5	311.1	301.8	290.4	274.8	258.3	241.2	225.1	209.8	196.6
142.5°	303.5	303.1	298.3	289.8	279.0	265.9	251.8	237.2	223.2	209.8	197.4
145°	284.0	283.0	279.4	273.3	264.8	254.4	243.4	231.6	220.6	209.0	198.3
147.5°	267.7	267.0	264.6	259.7	252.7	245.1	236.5	227.2	217.8	207.8	198.6
150°	258.0	257.6	255.5	251.2	245.8	239.4	232.0	224.1	215.5	206.9	198.3
152.5°	249.7	249.6	248.0	244.4	240.1	234.6	228.2	221.0	213.5	205.5	197.8
155°	238.7	239.4	238.0	235.5	231.6	227.6	222.3	216.6	209.8	203.0	196.9
157.5°	229.3	229.3	228.7	226.6	223.9	220.8	216.3	211.6	206.3	200.5	195.3
160°	223.4	223.4	223.0	221.3	218.7	216.2	212.3	208.3	203.7	198.7	194.5
162.5°	217.6	217.9	217.6	216.4	213.9	212.0	208.6	205.2	201.5	197.3	193.6
165°	209.4	209.8	209.8	208.3	206.9	205.5	203.0	200.6	197.6	194.5	192.0
167.5°	201.9	202.3	202.4	201.6	201.0	199.7	197.9	196.0	194.0	192.0	190.4
170°	197.3	198.0	198.3	197.3	196.9	196.2	194.8	193.8	192.0	190.6	189.5
172.5°	193.6	194.0	194.4	193.9	193.5	193.1	192.0	191.2	190.0	188.8	188.3
175°	188.7	189.5	189.9	189.5	189.5	189.1	188.7	188.4	187.3	186.9	186.6
177.5°	185.8	186.4	186.7	186.7	186.7	186.7	186.4	186.4	185.8	185.5	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1519.0	1515.7	1512.9	1505.4	1501.8	1493.5	1492.3	1491.9	1481.1	1470.8	1467.9
5°	1571.2	1563.0	1550.5	1536.1	1521.2	1505.7	1495.4	1487.2	1466.5	1446.9	1435.6
7.5°	1623.8	1606.1	1584.7	1557.4	1534.6	1509.0	1490.1	1473.1	1443.8	1415.7	1396.8
10°	1662.9	1634.1	1605.8	1568.1	1538.7	1509.8	1483.1	1459.9	1426.8	1389.8	1363.4
12.5°	1687.3	1655.6	1616.5	1579.6	1541.7	1504.9	1469.1	1439.3	1400.5	1362.1	1330.9
15°	1720.2	1686.2	1638.7	1586.2	1537.2	1489.2	1448.0	1410.9	1360.4	1314.5	1276.4
17.5°	1747.1	1700.3	1649.3	1588.5	1531.9	1470.9	1417.7	1370.4	1314.1	1258.8	1213.9
20°	1755.8	1709.4	1650.6	1589.7	1522.8	1451.1	1393.9	1342.3	1282.0	1221.7	1170.1
22.5°	1750.4	1714.3	1648.9	1576.2	1507.5	1432.5	1367.9	1308.1	1241.2	1179.6	1119.8
25°	1714.0	1701.6	1639.8	1560.3	1482.1	1394.9	1320.2	1254.7	1178.4	1112.5	1047.4
27.5°	1629.1	1655.9	1617.5	1533.0	1445.8	1352.4	1268.4	1193.9	1114.7	1040.5	975.7
30°	1547.5	1608.8	1592.4	1514.0	1416.5	1324.8	1230.5	1152.7	1068.1	991.8	927.9
32.5°	1435.7	1537.1	1553.2	1487.6	1386.8	1286.1	1187.2	1109.7	1021.5	941.1	878.8
35°	1257.8	1409.4	1478.9	1437.1	1336.2	1227.4	1125.3	1035.1	946.4	867.1	805.2
37.5°	1045.5	1251.9	1367.9	1370.9	1278.1	1165.0	1053.9	964.3	873.5	795.6	728.7
40°	907.8	1131.5	1282.5	1316.1	1237.7	1115.5	1003.1	911.9	823.2	746.9	670.1
42.5°	784.1	1006.9	1192.7	1250.9	1188.6	1067.2	954.5	859.1	773.0	700.7	622.3
45°	634.1	828.9	1033.6	1137.7	1103.2	990.8	871.7	780.9	700.0	637.6	562.4
47.5°	534.8	672.2	870.2	1011.1	1010.5	907.9	790.7	703.9	628.8	570.4	509.4
50°	478.4	597.9	765.5	925.3	938.7	852.6	741.2	655.2	585.1	523.7	474.7
52.5°	427.7	526.2	676.8	830.0	868.2	793.7	685.6	606.1	538.1	481.7	439.7
55°	361.3	437.7	552.1	695.4	753.2	700.5	604.7	530.5	475.2	427.9	391.7
57.5°	305.7	362.9	454.7	570.2	637.3	604.3	525.1	464.8	417.7	374.8	346.3
60°	270.6	317.5	395.4	491.8	566.0	542.8	475.2	419.1	378.9	341.7	315.0
62.5°	237.6	277.9	344.7	422.9	491.0	481.4	426.2	379.1	343.9	310.0	287.3
65°	191.3	220.7	272.7	334.1	388.7	393.3	353.7	321.6	290.2	263.4	243.3
67.5°	152.3	171.5	208.1	259.8	300.7	315.4	291.1	266.7	241.8	221.1	203.6
70°	128.4	143.8	170.7	212.4	250.0	265.5	251.6	232.5	210.9	193.8	178.8
72.5°	104.0	119.1	138.9	169.5	201.8	218.4	213.6	200.0	182.4	168.2	154.1
75°	78.4	83.0	96.4	117.0	142.3	156.7	160.4	153.1	139.2	128.4	120.1
77.5°	58.0	60.7	67.2	78.0	94.4	107.3	112.6	111.8	102.2	95.8	88.2
80°	46.4	48.0	51.0	55.6	68.1	80.9	84.5	84.5	77.9	75.2	67.6
82.5°	35.2	36.4	38.3	40.8	46.6	57.9	61.9	62.7	58.5	55.0	49.0
85°	20.1	19.6	20.6	22.1	23.2	26.3	32.5	33.5	32.5	28.4	26.8
87.5°	9.0	8.9	8.5	7.9	8.2	8.4	10.2	12.0	10.6	9.6	9.0
90°	9.6	7.2	5.4	4.2	3.5	2.8	1.4	0.4	1.4	2.8	3.5
92.5°	35.6	24.2	16.2	12.8	10.4	8.9	6.3	4.3	6.3	8.9	10.4
95°	82.4	51.4	34.9	26.4	20.7	17.5	13.9	12.5	13.9	17.5	20.7
97.5°	111.1	67.8	47.2	37.5	30.9	26.1	22.2	20.3	22.2	26.1	30.9
100°	117.0	73.5	54.6	44.6	37.5	31.7	28.6	27.5	28.6	31.7	37.5
102.5°	117.3	78.7	61.2	51.2	43.7	38.1	34.8	34.0	34.8	38.1	43.7
105°	119.2	87.5	70.7	60.7	52.8	47.5	44.9	43.5	44.9	47.5	52.8
107.5°	124.1	96.4	80.2	70.1	62.3	57.4	54.9	53.8	54.9	57.4	62.3
110°	128.1	102.4	86.7	76.3	68.9	64.2	62.1	60.7	62.1	64.2	68.9





TEST NUMBER: P331677-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	132.4	108.2	93.0	82.3	75.1	70.8	68.4	67.0	68.4	70.8	75.1
115°	138.8	117.0	101.7	92.1	84.9	80.7	78.5	76.7	78.5	80.7	84.9
117.5°	145.6	125.2	111.1	101.1	94.2	90.4	88.3	86.8	88.3	90.4	94.2
120°	150.3	131.0	117.0	107.0	99.9	96.7	94.5	93.1	94.5	96.7	99.9
122.5°	154.2	136.3	123.3	113.0	105.9	102.4	100.3	99.2	100.3	102.4	105.9
125°	160.6	144.5	131.7	121.7	114.5	110.3	108.2	107.0	108.2	110.3	114.5
127.5°	166.5	152.1	139.6	129.3	122.5	117.8	114.7	113.3	114.7	117.8	122.5
130°	170.2	156.6	144.1	134.2	127.0	122.0	118.5	117.0	118.5	122.0	127.0
132.5°	173.9	160.7	148.8	138.8	131.3	126.0	122.2	120.5	122.2	126.0	131.3
135°	178.7	166.3	154.8	144.9	136.6	131.3	127.0	125.6	127.0	131.3	136.6
137.5°	182.5	170.9	159.6	150.3	142.2	136.4	132.2	130.5	132.2	136.4	142.2
140°	184.5	173.4	162.7	153.4	145.6	139.9	135.6	134.2	135.6	139.9	145.6
142.5°	186.2	175.4	165.0	156.3	148.8	143.0	139.1	137.8	139.1	143.0	148.8
145°	188.4	178.4	168.7	161.0	153.8	148.5	144.9	143.4	144.9	148.5	153.8
147.5°	189.7	180.9	171.8	164.8	158.9	153.9	150.5	149.5	150.5	153.9	158.9
150°	190.2	182.0	173.8	167.3	162.0	157.3	154.5	153.4	154.5	157.3	162.0
152.5°	190.5	183.1	175.7	170.0	164.8	160.8	157.9	157.4	157.9	160.8	164.8
155°	190.9	184.8	178.7	173.4	169.5	165.5	163.4	163.1	163.4	165.5	169.5
157.5°	190.9	186.0	180.9	176.4	173.3	169.9	168.1	167.7	168.1	169.9	173.3
160°	190.9	186.6	182.4	178.4	175.5	172.7	171.3	170.9	171.3	172.7	175.5
162.5°	190.6	186.9	183.2	180.2	177.5	175.3	173.8	174.1	173.8	175.3	177.5
165°	189.9	187.3	184.1	182.0	180.2	178.0	177.3	177.7	177.3	178.0	180.2
167.5°	189.3	187.2	184.9	183.6	182.3	180.9	180.3	180.7	180.3	180.9	182.3
170°	188.7	186.9	185.2	184.1	183.4	182.4	182.0	182.7	182.0	182.4	183.4
172.5°	187.9	186.7	185.5	184.7	184.3	183.2	183.4	183.8	183.4	183.2	184.3
175°	186.9	186.2	185.5	185.2	185.2	184.5	184.8	185.2	184.8	184.5	185.2
177.5°	186.4	185.8	185.5	185.5	185.5	185.0	185.2	185.8	185.2	185.0	185.5
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331677-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1462.6	1459.7	1454.3	1446.0	1441.1	1432.4	1426.6	1430.0	1430.8	1430.0	1429.2
5°	1423.3	1412.4	1397.5	1383.0	1369.7	1355.2	1347.0	1343.3	1336.2	1332.0	1330.0
7.5°	1375.7	1357.1	1336.0	1310.8	1289.4	1267.1	1255.7	1249.9	1235.2	1227.2	1220.1
10°	1340.3	1310.9	1289.8	1256.8	1236.7	1207.3	1187.2	1187.7	1167.6	1156.2	1148.0
12.5°	1301.1	1268.8	1233.7	1204.0	1176.0	1152.5	1128.2	1118.4	1097.0	1086.1	1063.9
15°	1236.2	1198.5	1161.4	1121.2	1092.9	1056.2	1021.2	978.4	943.8	913.9	905.7
17.5°	1165.2	1118.6	1081.4	1034.2	985.6	924.0	883.4	858.6	837.8	822.0	810.2
20°	1116.5	1069.1	1029.5	958.3	892.8	851.1	821.2	802.1	780.4	763.5	754.2
22.5°	1065.4	1015.9	961.8	882.4	831.4	797.9	771.2	749.3	734.7	721.3	713.0
25°	992.8	938.7	849.5	794.9	753.7	718.6	700.0	686.6	671.2	653.1	644.9
27.5°	916.1	830.0	766.0	725.4	686.0	663.2	646.5	626.5	612.7	604.6	596.0
30°	858.8	772.7	722.8	678.4	650.6	625.3	605.7	594.4	581.0	567.0	561.4
32.5°	794.9	726.1	678.2	641.3	613.0	591.5	576.0	557.6	548.0	539.4	527.6
35°	715.5	663.5	619.7	589.8	562.9	545.4	527.4	516.5	499.0	491.8	487.2
37.5°	648.2	603.1	570.5	538.9	517.7	498.3	487.3	470.0	462.4	452.4	442.6
40°	610.4	566.0	534.5	508.8	485.0	470.6	456.8	442.8	431.4	426.9	415.0
42.5°	571.6	535.5	504.0	475.7	459.9	444.6	427.1	416.9	405.1	397.6	390.2
45°	518.1	486.1	459.3	436.1	418.6	402.6	391.2	374.3	367.6	352.5	346.4
47.5°	471.1	441.3	415.8	393.7	376.6	366.2	349.6	336.3	325.6	316.4	308.5
50°	437.7	412.9	388.2	368.6	353.1	338.2	321.1	314.5	297.9	293.3	288.7
52.5°	407.2	383.6	360.9	341.7	326.3	311.7	296.8	288.0	276.9	272.3	268.9
55°	364.5	341.7	320.1	303.1	287.6	272.7	263.4	252.6	247.4	243.8	239.7
57.5°	321.5	301.1	284.6	267.3	251.8	239.9	229.1	222.7	217.3	212.6	207.6
60°	294.4	274.8	259.8	243.8	227.8	218.0	209.8	202.1	195.9	188.6	186.6
62.5°	265.5	248.3	234.7	219.0	205.2	196.2	188.3	181.1	173.6	163.1	160.2
65°	225.8	212.4	197.9	185.1	172.7	163.9	152.6	144.3	141.3	140.2	139.7
67.5°	190.0	177.2	164.8	151.7	140.4	132.3	126.5	125.2	123.1	122.5	121.1
70°	166.0	154.1	141.8	129.4	118.6	117.0	114.9	112.9	110.3	109.3	108.3
72.5°	144.5	132.3	119.9	110.0	105.3	103.4	101.4	99.3	97.6	96.5	95.8
75°	110.8	99.5	91.3	87.7	85.0	83.5	80.4	78.9	77.9	76.2	75.7
77.5°	79.8	73.4	69.6	67.4	64.6	63.0	61.2	59.7	58.6	58.3	57.5
80°	60.8	57.8	55.1	52.1	51.0	49.0	48.5	47.0	47.5	45.8	45.8
82.5°	47.3	43.3	41.1	39.7	38.7	37.1	36.5	35.7	35.9	34.7	34.7
85°	24.2	23.2	22.1	21.1	21.1	19.6	20.1	19.6	19.6	18.6	18.1
87.5°	8.7	8.5	8.0	8.5	9.0	8.6	8.6	8.1	7.9	8.1	7.7
90°	4.2	5.4	7.2	9.6	11.8	12.1	11.8	11.4	10.7	11.4	11.8
92.5°	12.8	16.2	24.2	35.6	45.7	46.4	39.2	31.1	26.7	23.7	21.5
95°	26.4	34.9	51.4	82.4	123.8	139.9	122.4	93.5	71.7	56.8	48.9
97.5°	37.5	47.2	67.8	111.1	179.9	238.7	250.4	218.1	178.4	139.9	114.1
100°	44.6	54.6	73.5	117.0	194.1	281.9	333.3	325.8	281.6	232.7	189.5
102.5°	51.2	61.2	78.7	117.3	188.6	283.3	364.1	396.3	386.3	350.5	304.8
105°	60.7	70.7	87.5	119.2	178.0	264.4	359.3	433.5	473.8	478.5	466.8
107.5°	70.1	80.2	96.4	124.1	172.8	244.1	328.0	406.7	467.5	504.5	521.8
110°	76.3	86.7	102.4	128.1	171.7	234.4	308.3	383.5	447.5	493.1	522.4



TEST NUMBER: P331677-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	82.3	93.0	108.2	132.4	171.9	228.1	294.6	362.4	423.7	472.5	506.1
115°	92.1	101.7	117.0	138.8	173.4	221.3	277.6	336.5	391.4	438.2	474.9
117.5°	101.1	111.1	125.2	145.6	176.0	217.8	266.9	316.9	365.2	407.6	442.0
120°	107.0	117.0	131.0	150.3	177.7	215.9	261.2	307.2	351.4	389.3	421.7
122.5°	113.0	123.3	136.3	154.2	179.7	214.7	256.3	299.5	340.0	375.9	405.2
125°	121.7	131.7	144.5	160.6	182.7	212.7	249.4	288.3	325.1	356.5	383.2
127.5°	129.3	139.6	152.1	166.5	185.7	211.5	243.0	277.2	310.5	340.1	364.8
130°	134.2	144.1	156.6	170.2	188.0	210.9	238.7	270.1	300.8	329.0	352.5
132.5°	138.8	148.8	160.7	173.9	190.4	210.6	235.3	263.3	291.6	317.6	339.7
135°	144.9	154.8	166.3	178.7	193.1	210.2	230.5	253.7	277.2	300.8	320.7
137.5°	150.3	159.6	170.9	182.5	195.5	210.1	227.1	246.1	265.8	284.5	301.8
140°	153.4	162.7	173.4	184.5	196.6	209.8	225.1	241.2	258.3	274.8	290.4
142.5°	156.3	165.0	175.4	186.2	197.4	209.8	223.2	237.2	251.8	265.9	279.0
145°	161.0	168.7	178.4	188.4	198.3	209.0	220.6	231.6	243.4	254.4	264.8
147.5°	164.8	171.8	180.9	189.7	198.6	207.8	217.8	227.2	236.5	245.1	252.7
150°	167.3	173.8	182.0	190.2	198.3	206.9	215.5	224.1	232.0	239.4	245.8
152.5°	170.0	175.7	183.1	190.5	197.8	205.5	213.5	221.0	228.2	234.6	240.1
155°	173.4	178.7	184.8	190.9	196.9	203.0	209.8	216.6	222.3	227.6	231.6
157.5°	176.4	180.9	186.0	190.9	195.3	200.5	206.3	211.6	216.3	220.8	223.9
160°	178.4	182.4	186.6	190.9	194.5	198.7	203.7	208.3	212.3	216.2	218.7
162.5°	180.2	183.2	186.9	190.6	193.6	197.3	201.5	205.2	208.6	212.0	213.9
165°	182.0	184.1	187.3	189.9	192.0	194.5	197.6	200.6	203.0	205.5	206.9
167.5°	183.6	184.9	187.2	189.3	190.4	192.0	194.0	196.0	197.9	199.7	201.0
170°	184.1	185.2	186.9	188.7	189.5	190.6	192.0	193.8	194.8	196.2	196.9
172.5°	184.7	185.5	186.7	187.9	188.3	188.8	190.0	191.2	192.0	193.1	193.5
175°	185.2	185.5	186.2	186.9	186.6	186.9	187.3	188.4	188.7	189.1	189.5
177.5°	185.5	185.5	185.8	186.4	185.8	185.5	185.8	186.4	186.4	186.7	186.7
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331677-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1424.6	1425.4	1424.2	1425.0	1424.2	1425.4	1424.6	1429.2	1430.0	1430.8	1430.0
5°	1327.4	1321.2	1320.2	1318.6	1320.2	1321.2	1327.4	1330.0	1332.0	1336.2	1343.3
7.5°	1211.3	1210.3	1207.8	1204.2	1207.8	1210.3	1211.3	1220.1	1227.2	1235.2	1249.9
10°	1136.6	1134.1	1133.6	1129.9	1133.6	1134.1	1136.6	1148.0	1156.2	1167.6	1187.7
12.5°	1049.2	1032.6	1030.9	1021.9	1030.9	1032.6	1049.2	1063.9	1086.1	1097.0	1118.4
15°	893.3	890.3	879.9	873.2	879.9	890.3	893.3	905.7	913.9	943.8	978.4
17.5°	804.3	794.2	790.9	789.5	790.9	794.2	804.3	810.2	822.0	837.8	858.6
20°	746.9	737.7	736.1	735.1	736.1	737.7	746.9	754.2	763.5	780.4	802.1
22.5°	707.3	697.6	693.7	690.5	693.7	697.6	707.3	713.0	721.3	734.7	749.3
25°	639.7	636.1	634.1	633.0	634.1	636.1	639.7	644.9	653.1	671.2	686.6
27.5°	586.8	578.9	577.3	574.7	577.3	578.9	586.8	596.0	604.6	612.7	626.5
30°	556.7	554.1	550.6	547.4	550.6	554.1	556.7	561.4	567.0	581.0	594.4
32.5°	521.3	519.1	515.9	514.4	515.9	519.1	521.3	527.6	539.4	548.0	557.6
35°	482.0	474.7	471.7	467.1	471.7	474.7	482.0	487.2	491.8	499.0	516.5
37.5°	440.4	436.7	432.3	433.8	432.3	436.7	440.4	442.6	452.4	462.4	470.0
40°	408.3	405.7	404.7	404.1	404.7	405.7	408.3	415.0	426.9	431.4	442.8
42.5°	382.7	375.6	372.9	372.8	372.9	375.6	382.7	390.2	397.6	405.1	416.9
45°	343.9	337.1	332.4	333.1	332.4	337.1	343.9	346.4	352.5	367.6	374.3
47.5°	304.1	303.9	300.9	301.8	300.9	303.9	304.1	308.5	316.4	325.6	336.3
50°	285.1	282.0	279.9	280.4	279.9	282.0	285.1	288.7	293.3	297.9	314.5
52.5°	266.9	264.3	262.6	264.8	262.6	264.3	266.9	268.9	272.3	276.9	288.0
55°	237.1	234.0	233.5	233.0	233.5	234.0	237.1	239.7	243.8	247.4	252.6
57.5°	203.8	201.8	198.6	197.3	198.6	201.8	203.8	207.6	212.6	217.3	222.7
60°	179.9	175.8	170.7	170.1	170.7	175.8	179.9	186.6	188.6	195.9	202.1
62.5°	158.0	157.2	156.2	156.1	156.2	157.2	158.0	160.2	163.1	173.6	181.1
65°	138.7	138.1	138.7	139.2	138.7	138.1	138.7	139.7	140.2	141.3	144.3
67.5°	120.9	119.9	119.0	119.4	119.0	119.9	120.9	121.1	122.5	123.1	125.2
70°	107.2	106.7	106.2	106.2	106.2	106.7	107.2	108.3	109.3	110.3	112.9
72.5°	94.0	93.9	93.4	93.0	93.4	93.9	94.0	95.8	96.5	97.6	99.3
75°	75.2	74.2	74.2	74.2	74.2	74.2	75.2	75.7	76.2	77.9	78.9
77.5°	57.4	56.9	56.2	55.8	56.2	56.9	57.4	57.5	58.3	58.6	59.7
80°	45.3	44.8	44.3	44.3	44.3	44.8	45.3	45.8	45.8	47.5	47.0
82.5°	34.6	34.1	34.0	33.6	34.0	34.1	34.6	34.7	34.7	35.9	35.7
85°	18.6	19.1	18.6	19.6	18.6	19.1	18.6	18.1	18.6	19.6	19.6
87.5°	7.7	7.3	7.7	7.3	7.7	7.3	7.7	7.7	8.1	7.9	8.1
90°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.4	10.7	11.4
92.5°	21.2	20.1	20.3	19.8	20.3	20.1	21.2	21.5	23.7	26.7	31.1
95°	44.2	41.4	40.3	40.7	40.3	41.4	44.2	48.9	56.8	71.7	93.5
97.5°	97.0	88.3	83.1	80.1	83.1	88.3	97.0	114.1	139.9	178.4	218.1
100°	159.9	144.5	134.2	127.7	134.2	144.5	159.9	189.5	232.7	281.6	325.8
102.5°	272.6	246.4	233.5	224.8	233.5	246.4	272.6	304.8	350.5	386.3	396.3
105°	444.5	422.4	407.1	402.1	407.1	422.4	444.5	466.8	478.5	473.8	433.5
107.5°	524.6	523.4	520.3	513.7	520.3	523.4	524.6	521.8	504.5	467.5	406.7
110°	537.8	544.5	547.8	547.3	547.8	544.5	537.8	522.4	493.1	447.5	383.5



TEST NUMBER: P331677-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	527.5	538.8	544.8	546.7	544.8	538.8	527.5	506.1	472.5	423.7	362.4
115°	500.3	516.6	525.9	529.2	525.9	516.6	500.3	474.9	438.2	391.4	336.5
117.5°	467.9	485.2	494.9	497.7	494.9	485.2	467.9	442.0	407.6	365.2	316.9
120°	446.8	463.5	473.8	477.5	473.8	463.5	446.8	421.7	389.3	351.4	307.2
122.5°	427.6	444.1	453.3	456.3	453.3	444.1	427.6	405.2	375.9	340.0	299.5
125°	403.9	417.5	426.4	429.3	426.4	417.5	403.9	383.2	356.5	325.1	288.3
127.5°	382.8	395.6	403.2	405.6	403.2	395.6	382.8	364.8	340.1	310.5	277.2
130°	370.0	382.1	389.3	392.1	389.3	382.1	370.0	352.5	329.0	300.8	270.1
132.5°	356.9	369.0	375.6	378.2	375.6	369.0	356.9	339.7	317.6	291.6	263.3
135°	336.1	347.9	354.4	355.8	354.4	347.9	336.1	320.7	300.8	277.2	253.7
137.5°	315.9	326.0	331.6	333.8	331.6	326.0	315.9	301.8	284.5	265.8	246.1
140°	301.8	311.1	316.5	318.6	316.5	311.1	301.8	290.4	274.8	258.3	241.2
142.5°	289.8	298.3	303.1	303.5	303.1	298.3	289.8	279.0	265.9	251.8	237.2
145°	273.3	279.4	283.0	284.0	283.0	279.4	273.3	264.8	254.4	243.4	231.6
147.5°	259.7	264.6	267.0	267.7	267.0	264.6	259.7	252.7	245.1	236.5	227.2
150°	251.2	255.5	257.6	258.0	257.6	255.5	251.2	245.8	239.4	232.0	224.1
152.5°	244.4	248.0	249.6	249.7	249.6	248.0	244.4	240.1	234.6	228.2	221.0
155°	235.5	238.0	239.4	238.7	239.4	238.0	235.5	231.6	227.6	222.3	216.6
157.5°	226.6	228.7	229.3	229.3	229.3	228.7	226.6	223.9	220.8	216.3	211.6
160°	221.3	223.0	223.4	223.4	223.4	223.0	221.3	218.7	216.2	212.3	208.3
162.5°	216.4	217.6	217.9	217.6	217.9	217.6	216.4	213.9	212.0	208.6	205.2
165°	208.3	209.8	209.8	209.4	209.8	209.8	208.3	206.9	205.5	203.0	200.6
167.5°	201.6	202.4	202.3	201.9	202.3	202.4	201.6	201.0	199.7	197.9	196.0
170°	197.3	198.3	198.0	197.3	198.0	198.3	197.3	196.9	196.2	194.8	193.8
172.5°	193.9	194.4	194.0	193.6	194.0	194.4	193.9	193.5	193.1	192.0	191.2
175°	189.5	189.9	189.5	188.7	189.5	189.9	189.5	189.5	189.1	188.7	188.4
177.5°	186.7	186.7	186.4	185.8	186.4	186.7	186.7	186.7	186.7	186.4	186.4
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331677-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1426.6	1432.4	1441.1	1446.0	1454.3	1459.7	1462.6	1467.9	1470.8	1481.1	1491.9
5°	1347.0	1355.2	1369.7	1383.0	1397.5	1412.4	1423.3	1435.6	1446.9	1466.5	1487.2
7.5°	1255.7	1267.1	1289.4	1310.8	1336.0	1357.1	1375.7	1396.8	1415.7	1443.8	1473.1
10°	1187.2	1207.3	1236.7	1256.8	1289.8	1310.9	1340.3	1363.4	1389.8	1426.8	1459.9
12.5°	1128.2	1152.5	1176.0	1204.0	1233.7	1268.8	1301.1	1330.9	1362.1	1400.5	1439.3
15°	1021.2	1056.2	1092.9	1121.2	1161.4	1198.5	1236.2	1276.4	1314.5	1360.4	1410.9
17.5°	883.4	924.0	985.6	1034.2	1081.4	1118.6	1165.2	1213.9	1258.8	1314.1	1370.4
20°	821.2	851.1	892.8	958.3	1029.5	1069.1	1116.5	1170.1	1221.7	1282.0	1342.3
22.5°	771.2	797.9	831.4	882.4	961.8	1015.9	1065.4	1119.8	1179.6	1241.2	1308.1
25°	700.0	718.6	753.7	794.9	849.5	938.7	992.8	1047.4	1112.5	1178.4	1254.7
27.5°	646.5	663.2	686.0	725.4	766.0	830.0	916.1	975.7	1040.5	1114.7	1193.9
30°	605.7	625.3	650.6	678.4	722.8	772.7	858.8	927.9	991.8	1068.1	1152.7
32.5°	576.0	591.5	613.0	641.3	678.2	726.1	794.9	878.8	941.1	1021.5	1109.7
35°	527.4	545.4	562.9	589.8	619.7	663.5	715.5	805.2	867.1	946.4	1035.1
37.5°	487.3	498.3	517.7	538.9	570.5	603.1	648.2	728.7	795.6	873.5	964.3
40°	456.8	470.6	485.0	508.8	534.5	566.0	610.4	670.1	746.9	823.2	911.9
42.5°	427.1	444.6	459.9	475.7	504.0	535.5	571.6	622.3	700.7	773.0	859.1
45°	391.2	402.6	418.6	436.1	459.3	486.1	518.1	562.4	637.6	700.0	780.9
47.5°	349.6	366.2	376.6	393.7	415.8	441.3	471.1	509.4	570.4	628.8	703.9
50°	321.1	338.2	353.1	368.6	388.2	412.9	437.7	474.7	523.7	585.1	655.2
52.5°	296.8	311.7	326.3	341.7	360.9	383.6	407.2	439.7	481.7	538.1	606.1
55°	263.4	272.7	287.6	303.1	320.1	341.7	364.5	391.7	427.9	475.2	530.5
57.5°	229.1	239.9	251.8	267.3	284.6	301.1	321.5	346.3	374.8	417.7	464.8
60°	209.8	218.0	227.8	243.8	259.8	274.8	294.4	315.0	341.7	378.9	419.1
62.5°	188.3	196.2	205.2	219.0	234.7	248.3	265.5	287.3	310.0	343.9	379.1
65°	152.6	163.9	172.7	185.1	197.9	212.4	225.8	243.3	263.4	290.2	321.6
67.5°	126.5	132.3	140.4	151.7	164.8	177.2	190.0	203.6	221.1	241.8	266.7
70°	114.9	117.0	118.6	129.4	141.8	154.1	166.0	178.8	193.8	210.9	232.5
72.5°	101.4	103.4	105.3	110.0	119.9	132.3	144.5	154.1	168.2	182.4	200.0
75°	80.4	83.5	85.0	87.7	91.3	99.5	110.8	120.1	128.4	139.2	153.1
77.5°	61.2	63.0	64.6	67.4	69.6	73.4	79.8	88.2	95.8	102.2	111.8
80°	48.5	49.0	51.0	52.1	55.1	57.8	60.8	67.6	75.2	77.9	84.5
82.5°	36.5	37.1	38.7	39.7	41.1	43.3	47.3	49.0	55.0	58.5	62.7
85°	20.1	19.6	21.1	21.1	22.1	23.2	24.2	26.8	28.4	32.5	33.5
87.5°	8.6	8.6	9.0	8.5	8.0	8.5	8.7	9.0	9.6	10.6	12.0
90°	11.8	12.1	11.8	9.6	7.2	5.4	4.2	3.5	2.8	1.4	0.4
92.5°	39.2	46.4	45.7	35.6	24.2	16.2	12.8	10.4	8.9	6.3	4.3
95°	122.4	139.9	123.8	82.4	51.4	34.9	26.4	20.7	17.5	13.9	12.5
97.5°	250.4	238.7	179.9	111.1	67.8	47.2	37.5	30.9	26.1	22.2	20.3
100°	333.3	281.9	194.1	117.0	73.5	54.6	44.6	37.5	31.7	28.6	27.5
102.5°	364.1	283.3	188.6	117.3	78.7	61.2	51.2	43.7	38.1	34.8	34.0
105°	359.3	264.4	178.0	119.2	87.5	70.7	60.7	52.8	47.5	44.9	43.5
107.5°	328.0	244.1	172.8	124.1	96.4	80.2	70.1	62.3	57.4	54.9	53.8
110°	308.3	234.4	171.7	128.1	102.4	86.7	76.3	68.9	64.2	62.1	60.7



TEST NUMBER: P331677-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	294.6	228.1	171.9	132.4	108.2	93.0	82.3	75.1	70.8	68.4	67.0
115°	277.6	221.3	173.4	138.8	117.0	101.7	92.1	84.9	80.7	78.5	76.7
117.5°	266.9	217.8	176.0	145.6	125.2	111.1	101.1	94.2	90.4	88.3	86.8
120°	261.2	215.9	177.7	150.3	131.0	117.0	107.0	99.9	96.7	94.5	93.1
122.5°	256.3	214.7	179.7	154.2	136.3	123.3	113.0	105.9	102.4	100.3	99.2
125°	249.4	212.7	182.7	160.6	144.5	131.7	121.7	114.5	110.3	108.2	107.0
127.5°	243.0	211.5	185.7	166.5	152.1	139.6	129.3	122.5	117.8	114.7	113.3
130°	238.7	210.9	188.0	170.2	156.6	144.1	134.2	127.0	122.0	118.5	117.0
132.5°	235.3	210.6	190.4	173.9	160.7	148.8	138.8	131.3	126.0	122.2	120.5
135°	230.5	210.2	193.1	178.7	166.3	154.8	144.9	136.6	131.3	127.0	125.6
137.5°	227.1	210.1	195.5	182.5	170.9	159.6	150.3	142.2	136.4	132.2	130.5
140°	225.1	209.8	196.6	184.5	173.4	162.7	153.4	145.6	139.9	135.6	134.2
142.5°	223.2	209.8	197.4	186.2	175.4	165.0	156.3	148.8	143.0	139.1	137.8
145°	220.6	209.0	198.3	188.4	178.4	168.7	161.0	153.8	148.5	144.9	143.4
147.5°	217.8	207.8	198.6	189.7	180.9	171.8	164.8	158.9	153.9	150.5	149.5
150°	215.5	206.9	198.3	190.2	182.0	173.8	167.3	162.0	157.3	154.5	153.4
152.5°	213.5	205.5	197.8	190.5	183.1	175.7	170.0	164.8	160.8	157.9	157.4
155°	209.8	203.0	196.9	190.9	184.8	178.7	173.4	169.5	165.5	163.4	163.1
157.5°	206.3	200.5	195.3	190.9	186.0	180.9	176.4	173.3	169.9	168.1	167.7
160°	203.7	198.7	194.5	190.9	186.6	182.4	178.4	175.5	172.7	171.3	170.9
162.5°	201.5	197.3	193.6	190.6	186.9	183.2	180.2	177.5	175.3	173.8	174.1
165°	197.6	194.5	192.0	189.9	187.3	184.1	182.0	180.2	178.0	177.3	177.7
167.5°	194.0	192.0	190.4	189.3	187.2	184.9	183.6	182.3	180.9	180.3	180.7
170°	192.0	190.6	189.5	188.7	186.9	185.2	184.1	183.4	182.4	182.0	182.7
172.5°	190.0	188.8	188.3	187.9	186.7	185.5	184.7	184.3	183.2	183.4	183.8
175°	187.3	186.9	186.6	186.9	186.2	185.5	185.2	185.2	184.5	184.8	185.2
177.5°	185.8	185.5	185.8	186.4	185.8	185.5	185.5	185.5	185.0	185.2	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331677-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1492.3	1493.5	1501.8	1505.4	1512.9	1515.7	1519.0	1518.2	1518.2	1519.8	1531.5
5°	1495.4	1505.7	1521.2	1536.1	1550.5	1563.0	1571.2	1579.4	1582.6	1597.5	1610.9
7.5°	1490.1	1509.0	1534.6	1557.4	1584.7	1606.1	1623.8	1639.8	1650.7	1672.4	1694.8
10°	1483.1	1509.8	1538.7	1568.1	1605.8	1634.1	1662.9	1685.2	1692.3	1724.8	1743.4
12.5°	1469.1	1504.9	1541.7	1579.6	1616.5	1655.6	1687.3	1709.5	1734.8	1764.0	1798.3
15°	1448.0	1489.2	1537.2	1586.2	1638.7	1686.2	1720.2	1758.9	1786.7	1818.7	1848.6
17.5°	1417.7	1470.9	1531.9	1588.5	1649.3	1700.3	1747.1	1784.2	1803.8	1822.0	1826.4
20°	1393.9	1451.1	1522.8	1589.7	1650.6	1709.4	1755.8	1786.7	1791.8	1792.3	1765.0
22.5°	1367.9	1432.5	1507.5	1576.2	1648.9	1714.3	1750.4	1763.6	1743.1	1708.2	1655.4
25°	1320.2	1394.9	1482.1	1560.3	1639.8	1701.6	1714.0	1690.8	1619.1	1543.9	1448.6
27.5°	1268.4	1352.4	1445.8	1533.0	1617.5	1655.9	1629.1	1545.5	1416.4	1304.2	1168.3
30°	1230.5	1324.8	1416.5	1514.0	1592.4	1608.8	1547.5	1424.3	1273.7	1104.7	969.2
32.5°	1187.2	1286.1	1386.8	1487.6	1553.2	1537.1	1435.7	1284.0	1107.6	941.4	813.2
35°	1125.3	1227.4	1336.2	1437.1	1478.9	1409.4	1257.8	1060.4	879.9	724.8	636.6
37.5°	1053.9	1165.0	1278.1	1370.9	1367.9	1251.9	1045.5	841.7	690.0	598.2	535.5
40°	1003.1	1115.5	1237.7	1316.1	1282.5	1131.5	907.8	715.5	604.7	531.5	485.5
42.5°	954.5	1067.2	1188.6	1250.9	1192.7	1006.9	784.1	633.4	542.0	484.8	447.7
45°	871.7	990.8	1103.2	1137.7	1033.6	828.9	634.1	524.7	463.9	421.7	395.9
47.5°	790.7	907.9	1010.5	1011.1	870.2	672.2	534.8	454.1	402.2	369.5	350.7
50°	741.2	852.6	938.7	925.3	765.5	597.9	478.4	408.8	365.5	340.2	320.6
52.5°	685.6	793.7	868.2	830.0	676.8	526.2	427.7	369.2	333.4	311.3	293.9
55°	604.7	700.5	753.2	695.4	552.1	437.7	361.3	315.5	288.7	270.1	255.2
57.5°	525.1	604.3	637.3	570.2	454.7	362.9	305.7	271.2	244.7	231.4	223.6
60°	475.2	542.8	566.0	491.8	395.4	317.5	270.6	238.6	219.0	210.4	202.6
62.5°	426.2	481.4	491.0	422.9	344.7	277.9	237.6	210.7	197.6	189.2	182.0
65°	353.7	393.3	388.7	334.1	272.7	220.7	191.3	174.7	164.9	153.1	140.2
67.5°	291.1	315.4	300.7	259.8	208.1	171.5	152.3	139.8	127.6	116.4	113.4
70°	251.6	265.5	250.0	212.4	170.7	143.8	128.4	113.4	106.2	103.6	99.0
72.5°	213.6	218.4	201.8	169.5	138.9	119.1	104.0	95.6	91.8	89.6	86.6
75°	160.4	156.7	142.3	117.0	96.4	83.0	78.4	75.2	72.7	70.6	69.1
77.5°	112.6	107.3	94.4	78.0	67.2	60.7	58.0	56.2	55.0	54.0	52.5
80°	84.5	80.9	68.1	55.6	51.0	48.0	46.4	44.3	44.3	43.3	41.7
82.5°	61.9	57.9	46.6	40.8	38.3	36.4	35.2	34.0	33.6	33.8	32.7
85°	32.5	26.3	23.2	22.1	20.6	19.6	20.1	19.1	19.1	19.1	18.6
87.5°	10.2	8.4	8.2	7.9	8.5	8.9	9.0	9.4	9.9	9.4	9.7
90°	1.4	2.8	3.5	4.2	5.4	7.2	9.6	11.8	12.1	11.8	11.4
92.5°	6.3	8.9	10.4	12.8	16.2	24.2	35.6	45.7	46.4	39.2	31.1
95°	13.9	17.5	20.7	26.4	34.9	51.4	82.4	123.8	139.9	122.4	93.5
97.5°	22.2	26.1	30.9	37.5	47.2	67.8	111.1	179.9	238.7	250.4	218.1
100°	28.6	31.7	37.5	44.6	54.6	73.5	117.0	194.1	281.9	333.3	325.8
102.5°	34.8	38.1	43.7	51.2	61.2	78.7	117.3	188.6	283.3	364.1	396.3
105°	44.9	47.5	52.8	60.7	70.7	87.5	119.2	178.0	264.4	359.3	433.5
107.5°	54.9	57.4	62.3	70.1	80.2	96.4	124.1	172.8	244.1	328.0	406.7
110°	62.1	64.2	68.9	76.3	86.7	102.4	128.1	171.7	234.4	308.3	383.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	68.4	70.8	75.1	82.3	93.0	108.2	132.4	171.9	228.1	294.6	362.4
115°	78.5	80.7	84.9	92.1	101.7	117.0	138.8	173.4	221.3	277.6	336.5
117.5°	88.3	90.4	94.2	101.1	111.1	125.2	145.6	176.0	217.8	266.9	316.9
120°	94.5	96.7	99.9	107.0	117.0	131.0	150.3	177.7	215.9	261.2	307.2
122.5°	100.3	102.4	105.9	113.0	123.3	136.3	154.2	179.7	214.7	256.3	299.5
125°	108.2	110.3	114.5	121.7	131.7	144.5	160.6	182.7	212.7	249.4	288.3
127.5°	114.7	117.8	122.5	129.3	139.6	152.1	166.5	185.7	211.5	243.0	277.2
130°	118.5	122.0	127.0	134.2	144.1	156.6	170.2	188.0	210.9	238.7	270.1
132.5°	122.2	126.0	131.3	138.8	148.8	160.7	173.9	190.4	210.6	235.3	263.3
135°	127.0	131.3	136.6	144.9	154.8	166.3	178.7	193.1	210.2	230.5	253.7
137.5°	132.2	136.4	142.2	150.3	159.6	170.9	182.5	195.5	210.1	227.1	246.1
140°	135.6	139.9	145.6	153.4	162.7	173.4	184.5	196.6	209.8	225.1	241.2
142.5°	139.1	143.0	148.8	156.3	165.0	175.4	186.2	197.4	209.8	223.2	237.2
145°	144.9	148.5	153.8	161.0	168.7	178.4	188.4	198.3	209.0	220.6	231.6
147.5°	150.5	153.9	158.9	164.8	171.8	180.9	189.7	198.6	207.8	217.8	227.2
150°	154.5	157.3	162.0	167.3	173.8	182.0	190.2	198.3	206.9	215.5	224.1
152.5°	157.9	160.8	164.8	170.0	175.7	183.1	190.5	197.8	205.5	213.5	221.0
155°	163.4	165.5	169.5	173.4	178.7	184.8	190.9	196.9	203.0	209.8	216.6
157.5°	168.1	169.9	173.3	176.4	180.9	186.0	190.9	195.3	200.5	206.3	211.6
160°	171.3	172.7	175.5	178.4	182.4	186.6	190.9	194.5	198.7	203.7	208.3
162.5°	173.8	175.3	177.5	180.2	183.2	186.9	190.6	193.6	197.3	201.5	205.2
165°	177.3	178.0	180.2	182.0	184.1	187.3	189.9	192.0	194.5	197.6	200.6
167.5°	180.3	180.9	182.3	183.6	184.9	187.2	189.3	190.4	192.0	194.0	196.0
170°	182.0	182.4	183.4	184.1	185.2	186.9	188.7	189.5	190.6	192.0	193.8
172.5°	183.4	183.2	184.3	184.7	185.5	186.7	187.9	188.3	188.8	190.0	191.2
175°	184.8	184.5	185.2	185.2	185.5	186.2	186.9	186.6	186.9	187.3	188.4
177.5°	185.2	185.0	185.5	185.5	185.5	185.8	186.4	185.8	185.5	185.8	186.4
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1535.5	1540.9	1543.4	1543.4	1546.3	1545.0	1543.8
5°	1623.8	1633.6	1635.7	1645.0	1651.6	1649.5	1650.6
7.5°	1711.5	1727.3	1742.8	1750.0	1751.1	1755.2	1756.8
10°	1765.5	1778.5	1802.7	1799.1	1817.1	1827.5	1810.4
12.5°	1817.6	1834.9	1851.7	1856.3	1866.6	1869.9	1863.2
15°	1864.5	1873.8	1874.8	1872.3	1875.3	1872.8	1863.0
17.5°	1820.6	1805.5	1775.0	1760.6	1749.2	1732.2	1725.5
20°	1748.0	1703.6	1652.1	1631.5	1607.3	1559.8	1571.2
22.5°	1591.3	1540.8	1489.2	1429.1	1400.3	1355.3	1352.6
25°	1347.5	1260.4	1164.5	1097.5	1058.3	1013.5	993.9
27.5°	1047.6	938.0	859.4	819.6	783.5	747.9	746.4
30°	850.5	768.1	707.2	673.3	651.1	636.1	639.2
32.5°	716.9	660.5	619.5	591.2	574.8	563.5	563.3
35°	586.1	547.4	521.2	509.3	497.5	489.2	489.7
37.5°	501.6	478.4	463.7	450.6	443.2	439.2	437.0
40°	458.3	439.2	427.9	420.1	413.9	408.3	407.3
42.5°	424.0	408.3	396.9	390.8	385.1	381.0	380.0
45°	376.3	363.5	353.1	346.4	343.9	340.2	340.2
47.5°	334.8	322.0	314.1	309.8	305.4	303.0	302.9
50°	306.7	296.9	289.7	287.1	283.5	282.0	281.4
52.5°	281.6	274.3	269.1	267.3	265.8	263.8	264.2
55°	247.4	243.3	241.3	239.7	237.1	234.0	236.1
57.5°	218.6	215.2	209.6	204.8	202.4	200.3	201.1
60°	198.4	191.3	184.0	178.3	176.8	172.2	172.2
62.5°	172.9	162.8	153.9	150.8	149.2	147.0	146.6
65°	133.0	128.9	126.8	124.7	123.7	123.7	122.7
67.5°	110.2	108.6	106.3	105.7	104.7	104.4	104.1
70°	97.5	95.3	94.3	93.8	92.8	93.3	91.8
72.5°	85.0	83.4	83.2	81.9	81.2	81.3	80.2
75°	67.1	67.1	66.4	65.9	64.9	64.4	64.9
77.5°	51.5	51.6	50.7	50.6	50.5	50.6	50.1
80°	41.2	41.7	41.2	40.7	40.2	40.7	40.2
82.5°	32.6	31.8	31.7	31.6	31.5	31.2	31.1
85°	18.6	19.1	18.6	18.1	18.1	18.1	18.6
87.5°	9.2	9.3	9.4	9.4	9.4	9.4	9.0
90°	10.7	11.4	11.8	11.8	11.8	11.8	11.8
92.5°	26.7	23.7	21.5	21.2	20.1	20.3	19.8
95°	71.7	56.8	48.9	44.2	41.4	40.3	40.7
97.5°	178.4	139.9	114.1	97.0	88.3	83.1	80.1
100°	281.6	232.7	189.5	159.9	144.5	134.2	127.7
102.5°	386.3	350.5	304.8	272.6	246.4	233.5	224.8
105°	473.8	478.5	466.8	444.5	422.4	407.1	402.1
107.5°	467.5	504.5	521.8	524.6	523.4	520.3	513.7
110°	447.5	493.1	522.4	537.8	544.5	547.8	547.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	423.7	472.5	506.1	527.5	538.8	544.8	546.7
115°	391.4	438.2	474.9	500.3	516.6	525.9	529.2
117.5°	365.2	407.6	442.0	467.9	485.2	494.9	497.7
120°	351.4	389.3	421.7	446.8	463.5	473.8	477.5
122.5°	340.0	375.9	405.2	427.6	444.1	453.3	456.3
125°	325.1	356.5	383.2	403.9	417.5	426.4	429.3
127.5°	310.5	340.1	364.8	382.8	395.6	403.2	405.6
130°	300.8	329.0	352.5	370.0	382.1	389.3	392.1
132.5°	291.6	317.6	339.7	356.9	369.0	375.6	378.2
135°	277.2	300.8	320.7	336.1	347.9	354.4	355.8
137.5°	265.8	284.5	301.8	315.9	326.0	331.6	333.8
140°	258.3	274.8	290.4	301.8	311.1	316.5	318.6
142.5°	251.8	265.9	279.0	289.8	298.3	303.1	303.5
145°	243.4	254.4	264.8	273.3	279.4	283.0	284.0
147.5°	236.5	245.1	252.7	259.7	264.6	267.0	267.7
150°	232.0	239.4	245.8	251.2	255.5	257.6	258.0
152.5°	228.2	234.6	240.1	244.4	248.0	249.6	249.7
155°	222.3	227.6	231.6	235.5	238.0	239.4	238.7
157.5°	216.3	220.8	223.9	226.6	228.7	229.3	229.3
160°	212.3	216.2	218.7	221.3	223.0	223.4	223.4
162.5°	208.6	212.0	213.9	216.4	217.6	217.9	217.6
165°	203.0	205.5	206.9	208.3	209.8	209.8	209.4
167.5°	197.9	199.7	201.0	201.6	202.4	202.3	201.9
170°	194.8	196.2	196.9	197.3	198.3	198.0	197.3
172.5°	192.0	193.1	193.5	193.9	194.4	194.0	193.6
175°	188.7	189.1	189.5	189.5	189.9	189.5	188.7
177.5°	186.4	186.7	186.7	186.7	186.7	186.4	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5

(END OF REPORT)