

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: P331675-830

Luminaire Tested: **SA2XXRDIP-C675D330U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331675-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

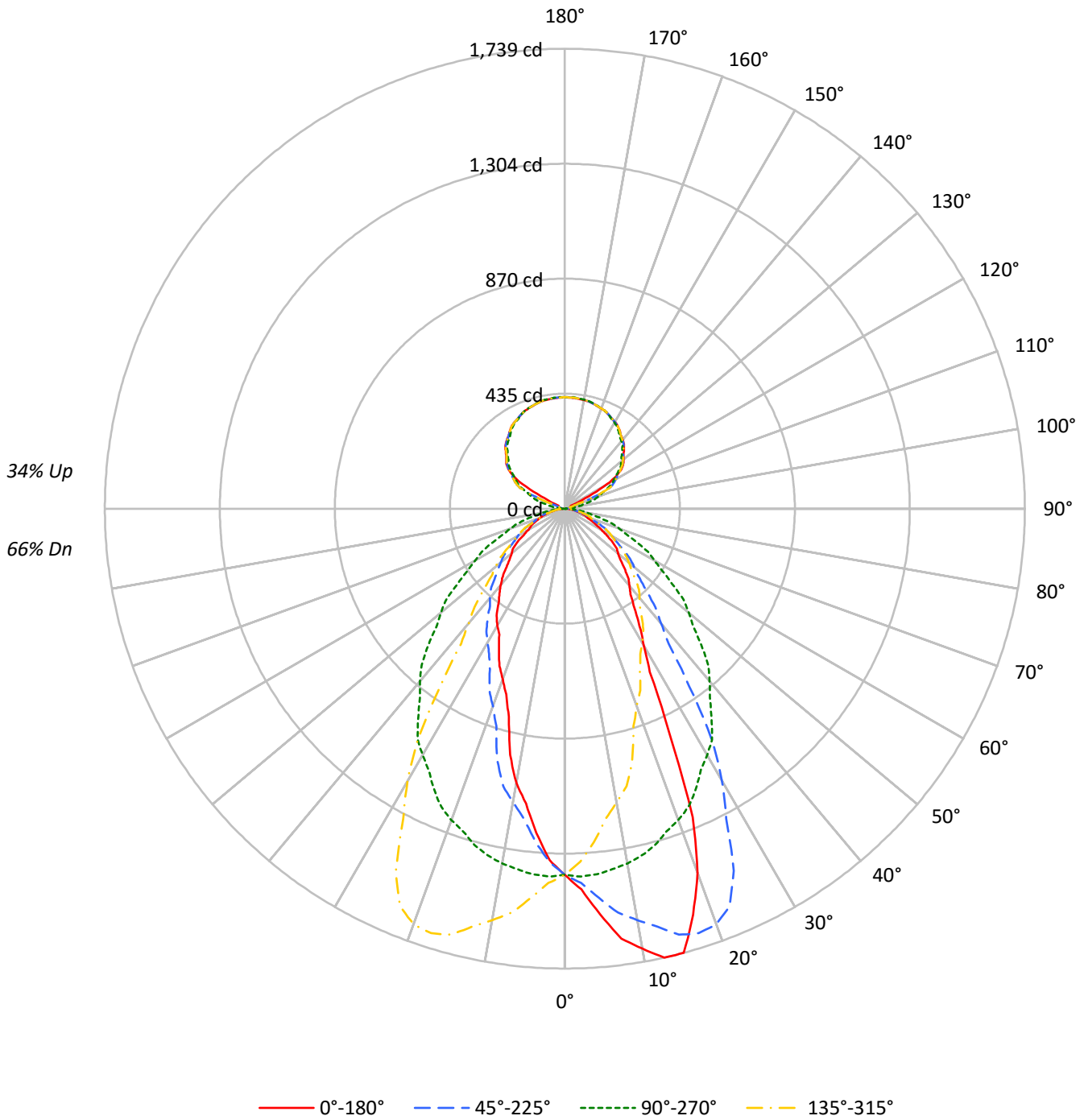
Lumens per Lamp: N/A
Luminaire Lumens: 3628.3 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66		
1	102	98	95	91	96	93	90	87	82	80	78	73	71	70	64	63	62	58		
2	94	87	81	77	88	82	77	73	74	70	66	65	62	60	58	56	54	50		
3	87	78	71	65	81	74	67	62	66	61	57	59	55	52	52	49	47	44		
4	80	70	62	56	75	66	59	54	59	54	50	53	49	46	48	44	42	39		
5	74	63	55	49	70	60	53	47	54	48	44	49	44	40	43	40	37	34		
6	69	57	49	44	65	54	47	42	49	43	39	44	40	36	40	36	33	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	30	28	25		
9	56	44	37	32	53	42	35	31	38	33	29	35	30	27	32	28	25	23		
10	52	41	34	29	50	39	32	28	36	30	26	33	28	25	30	26	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22357	22357	22357	22357
5°	24969	22498	19947	22498
10°	27702	22338	17290	22338
15°	29065	22011	13623	22011
20°	25197	21526	11789	21526
25°	16527	20861	10525	20861
30°	11123	20057	9527	20057
35°	9008	19042	8592	19042
40°	8011	17939	7950	17939
45°	7250	16643	7099	16643
50°	6599	15360	6574	15360
55°	6204	13937	6120	13937
60°	5189	12633	5125	12633
65°	4374	11469	4963	11469
70°	4046	10244	4683	10244
75°	3780	8914	4323	8914
80°	3487	7336	3849	7336
85°	3205	5798	3390	5798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.6
10°-20°	365.7	10.1
20°-30°	471.3	13.0
30°-40°	447.9	12.3
40°-50°	383.7	10.6
50°-60°	292.2	8.1
60°-70°	184.7	5.1
70°-80°	92.2	2.5
80°-90°	25.0	0.7
90°-100°	14.0	0.4
100°-110°	51.5	1.4
110°-120°	137.7	3.8
120°-130°	227.3	6.3
130°-140°	241.8	6.7
140°-150°	224.7	6.2
150°-160°	180.7	5.0
160°-170°	116.4	3.2
170°-180°	40.1	1.1
0°-30°	968.3	26.7
0°-40°	1416.2	39.0
0°-60°	2092.1	57.7
0°-90°	2394.1	66.0
90°-120°	203.3	5.6
90°-150°	897.1	24.7
90°-180°	1234.0	34.0
0°-180°	3628.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1385	1385	1385	1385	1385	
5°	1541	1388	1231	1388	1541	152
15°	1739	1317	815	1317	1739	469
25°	928	1171	591	1171	928	440
35°	457	966	436	966	457	292
45°	318	729	311	729	318	246
55°	220	495	217	495	220	193
65°	114	300	130	300	114	117
75°	61	143	69	143	61	64
85°	17	31	18	31	17	19
90°	8	0	8	0	8	4
95°	13	20	13	20	13	12
105°	23	93	23	93	23	24
115°	25	175	25	175	25	63
125°	260	248	260	248	260	225
135°	317	307	317	307	317	244
145°	361	356	361	356	361	226
155°	392	392	392	392	392	181
165°	412	413	412	413	412	116
175°	420	422	420	422	420	40
180°	421	421	421	421	421	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1440.9	1442.0	1443.2	1440.5	1440.5	1438.1	1433.1	1429.4	1418.5	1417.0	1417.0
5°	1540.6	1539.5	1541.5	1535.3	1526.6	1524.7	1515.5	1503.5	1491.0	1477.1	1474.1
7.5°	1639.6	1638.2	1634.4	1633.3	1626.6	1612.1	1597.4	1581.8	1560.9	1540.7	1530.5
10°	1689.7	1705.6	1695.9	1679.1	1682.5	1659.9	1647.8	1627.2	1609.9	1579.5	1572.8
12.5°	1739.0	1745.2	1742.2	1732.6	1728.2	1712.6	1696.4	1678.4	1646.4	1619.2	1595.5
15°	1738.8	1747.9	1750.3	1747.5	1749.8	1748.9	1740.2	1725.3	1697.4	1667.5	1641.6
17.5°	1610.4	1616.7	1632.6	1643.2	1656.7	1685.2	1699.2	1704.7	1700.5	1683.6	1665.3
20°	1466.5	1455.9	1500.2	1522.8	1542.0	1590.1	1631.4	1647.4	1672.8	1672.4	1667.5
22.5°	1262.4	1265.0	1306.9	1333.8	1390.0	1438.0	1485.3	1545.0	1594.3	1626.9	1646.1
25°	927.7	945.9	987.8	1024.4	1086.8	1176.4	1257.6	1352.0	1441.0	1511.2	1578.1
27.5°	696.6	698.0	731.2	765.0	802.1	875.4	977.8	1090.4	1217.3	1322.0	1442.5
30°	596.6	593.7	607.7	628.4	660.1	716.9	793.8	904.6	1031.0	1188.8	1329.4
32.5°	525.8	525.9	536.5	551.8	578.2	616.4	669.1	759.0	878.6	1033.8	1198.4
35°	457.0	456.6	464.3	475.3	486.4	511.0	547.1	594.2	676.5	821.2	989.7
37.5°	407.8	409.9	413.7	420.6	432.8	446.5	468.2	499.8	558.4	644.0	785.6
40°	380.1	381.1	386.3	392.1	399.4	409.9	427.7	453.2	496.1	564.4	667.8
42.5°	354.7	355.6	359.4	364.8	370.4	381.1	395.8	417.8	452.5	505.9	591.2
45°	317.5	317.5	320.9	323.3	329.6	339.2	351.2	369.5	393.6	433.0	489.7
47.5°	282.7	282.8	285.0	289.2	293.1	300.6	312.5	327.3	344.9	375.4	423.9
50°	262.7	263.2	264.6	268.0	270.4	277.1	286.3	299.3	317.5	341.1	381.5
52.5°	246.6	246.2	248.1	249.5	251.2	256.0	262.8	274.3	290.6	311.1	344.6
55°	220.4	218.4	221.3	223.8	225.2	227.1	230.9	238.2	252.1	269.5	294.5
57.5°	187.7	186.9	188.9	191.1	195.7	200.9	204.1	208.7	215.9	228.4	253.2
60°	160.7	160.7	165.0	166.5	171.7	178.5	185.2	189.1	196.3	204.4	222.7
62.5°	136.9	137.2	139.2	140.7	143.6	151.9	161.4	169.8	176.6	184.5	196.6
65°	114.5	115.5	115.5	116.4	118.4	120.3	124.1	130.8	142.9	153.9	163.1
67.5°	97.2	97.5	97.7	98.7	99.2	101.3	102.8	105.8	108.7	119.1	130.4
70°	85.7	87.1	86.6	87.6	88.0	89.0	91.0	92.4	96.7	99.2	105.8
72.5°	74.8	75.9	75.8	76.4	77.7	77.9	79.4	80.9	83.6	85.7	89.3
75°	60.6	60.1	60.6	61.5	62.0	62.6	62.6	64.5	65.9	67.9	70.2
77.5°	46.8	47.2	47.1	47.2	47.3	48.2	48.1	49.0	50.4	51.4	52.5
80°	37.5	38.0	37.5	38.0	38.5	38.9	38.5	38.9	40.4	41.4	41.4
82.5°	29.0	29.1	29.4	29.5	29.6	29.7	30.4	30.5	31.6	31.4	31.8
85°	17.3	16.9	16.9	16.9	17.3	17.8	17.3	17.3	17.8	17.8	17.8
87.5°	7.8	8.2	8.1	8.1	8.1	8.0	8.0	8.3	7.8	8.1	7.6
90°	8.2	8.1	7.9	7.8	7.7	7.4	7.1	6.8	6.4	6.1	5.6
92.5°	8.2	8.1	8.1	8.0	7.9	7.7	7.6	7.4	7.3	7.1	6.8
95°	13.1	13.2	13.2	13.3	13.4	13.2	12.9	12.5	12.3	11.9	11.4
97.5°	17.5	17.4	17.3	17.2	17.2	17.0	16.7	16.5	16.2	15.9	14.8
100°	20.5	20.3	20.2	20.0	19.9	19.5	19.0	18.5	17.9	17.3	16.2
102.5°	21.9	21.7	21.5	21.3	21.1	20.6	20.0	19.2	18.6	17.8	27.5
105°	23.2	22.9	22.6	22.3	22.1	21.6	20.8	20.1	19.3	18.6	37.0
107.5°	23.8	23.6	23.3	23.0	22.7	23.0	23.8	24.5	25.3	26.0	48.2
110°	24.0	23.8	23.6	23.3	23.0	26.2	33.0	39.8	46.6	53.3	72.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	24.3	24.1	23.8	23.7	23.5	35.7	60.4	85.1	109.8	134.5	139.3
115°	25.0	29.9	34.8	39.6	44.5	62.6	94.0	125.4	156.7	188.0	186.3
117.5°	102.1	118.1	134.1	150.1	166.2	178.0	185.5	193.1	200.7	208.3	207.1
120°	185.9	195.0	204.2	213.3	222.4	226.6	225.8	225.0	224.2	223.4	222.2
122.5°	232.0	233.8	235.5	237.3	239.0	239.7	239.2	238.7	238.3	237.8	236.5
125°	260.5	260.3	260.1	260.0	259.8	259.4	258.9	258.4	258.0	257.5	256.2
127.5°	278.6	278.5	278.5	278.5	278.4	278.1	277.4	276.7	276.0	275.3	274.4
130°	289.8	289.9	289.9	290.0	290.1	289.7	289.0	288.2	287.5	286.8	286.1
132.5°	300.8	300.9	301.0	301.0	301.0	300.8	300.1	299.5	298.9	298.2	297.5
135°	316.6	316.8	316.9	317.1	317.2	316.9	316.2	315.6	314.9	314.2	313.6
137.5°	331.1	331.3	331.6	331.8	332.0	331.8	331.1	330.5	329.8	329.1	328.5
140°	340.1	340.4	340.8	341.1	341.5	341.3	340.7	340.1	339.5	338.8	338.2
142.5°	348.8	349.2	349.6	349.9	350.2	350.2	349.6	349.0	348.5	347.9	347.0
145°	361.1	361.5	361.8	362.1	362.5	362.4	361.9	361.5	361.0	360.5	359.4
147.5°	371.9	372.2	372.5	372.8	373.1	373.1	372.7	372.3	371.9	371.6	370.5
150°	378.5	378.8	379.2	379.6	379.8	379.8	379.4	379.0	378.6	378.2	377.1
152.5°	384.1	384.6	385.0	385.4	385.9	385.9	385.5	385.1	384.7	384.3	383.2
155°	391.9	392.5	393.0	393.5	394.1	394.2	393.7	393.3	392.9	392.5	391.7
157.5°	399.1	399.5	400.1	400.6	401.1	401.1	400.8	400.3	399.8	399.4	398.8
160°	403.2	403.7	404.2	404.6	405.1	405.1	404.7	404.4	403.9	403.5	403.1
162.5°	406.6	407.2	407.7	408.3	409.0	409.0	408.5	408.0	407.6	407.2	406.8
165°	411.7	412.2	412.6	413.1	413.6	413.6	413.1	412.6	412.2	411.7	411.5
167.5°	414.9	415.6	416.1	416.8	417.4	417.5	417.0	416.5	416.0	415.6	415.4
170°	416.9	417.5	418.1	418.8	419.3	419.4	419.0	418.5	418.0	417.5	417.4
172.5°	418.4	419.0	419.6	420.2	420.8	420.8	420.4	419.9	419.4	419.0	418.9
175°	419.6	420.3	421.0	421.7	422.4	422.4	422.0	421.5	421.0	420.6	420.5
177.5°	420.5	420.9	421.4	421.9	422.4	422.4	422.1	421.7	421.3	420.9	420.8
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1417.8	1414.7	1412.0	1405.0	1401.7	1393.9	1392.8	1392.4	1382.3	1372.7	1370.1
5°	1466.5	1458.8	1447.2	1433.7	1419.8	1405.3	1395.7	1388.1	1368.8	1350.5	1339.9
7.5°	1515.5	1499.0	1479.0	1453.6	1432.3	1408.4	1390.7	1374.9	1347.6	1321.4	1303.7
10°	1552.1	1525.1	1498.7	1463.6	1436.2	1409.2	1384.2	1362.5	1331.7	1297.1	1272.5
12.5°	1574.8	1545.2	1508.7	1474.3	1438.9	1404.6	1371.1	1343.3	1307.1	1271.3	1242.2
15°	1605.5	1573.8	1529.5	1480.5	1434.7	1390.0	1351.5	1316.8	1269.7	1226.9	1191.3
17.5°	1630.6	1587.0	1539.4	1482.6	1429.7	1372.8	1323.2	1279.0	1226.5	1174.9	1132.9
20°	1638.7	1595.4	1540.6	1483.8	1421.3	1354.3	1301.0	1252.8	1196.6	1140.3	1092.1
22.5°	1633.7	1600.1	1539.0	1471.1	1407.0	1337.0	1276.7	1220.9	1158.5	1101.0	1045.2
25°	1599.8	1588.2	1530.5	1456.3	1383.3	1301.9	1232.2	1171.0	1099.9	1038.3	977.6
27.5°	1520.5	1545.5	1509.7	1430.8	1349.4	1262.3	1183.8	1114.3	1040.4	971.1	910.7
30°	1444.4	1501.6	1486.2	1413.1	1322.1	1236.5	1148.5	1075.8	996.9	925.7	866.0
32.5°	1340.0	1434.6	1449.6	1388.5	1294.4	1200.3	1108.1	1035.8	953.4	878.4	820.2
35°	1173.9	1315.4	1380.4	1341.3	1247.1	1145.6	1050.3	966.1	883.4	809.3	751.5
37.5°	975.8	1168.5	1276.7	1279.5	1192.9	1087.3	983.6	900.0	815.3	742.5	680.1
40°	847.3	1056.0	1197.0	1228.3	1155.2	1041.1	936.2	851.1	768.4	697.1	625.5
42.5°	731.8	939.8	1113.1	1167.5	1109.4	996.1	890.9	801.8	721.4	654.0	580.8
45°	591.8	773.6	964.7	1061.9	1029.6	924.7	813.6	728.9	653.4	595.1	524.9
47.5°	499.2	627.4	812.2	943.7	943.1	847.3	738.0	657.0	586.9	532.3	475.4
50°	446.5	558.1	714.4	863.7	876.1	795.8	691.8	611.5	546.1	488.8	443.1
52.5°	399.2	491.2	631.7	774.7	810.3	740.7	639.9	565.7	502.2	449.6	410.4
55°	337.2	408.5	515.3	649.0	702.9	653.8	564.4	495.1	443.6	399.4	365.6
57.5°	285.3	338.7	424.4	532.2	594.8	564.0	490.1	433.9	389.8	349.8	323.2
60°	252.6	296.3	369.0	459.0	528.3	506.6	443.6	391.2	353.6	319.0	294.0
62.5°	221.8	259.4	321.7	394.7	458.3	449.3	397.8	353.8	320.9	289.4	268.2
65°	178.5	205.9	254.5	311.8	362.8	367.1	330.1	300.2	270.9	245.8	227.1
67.5°	142.1	160.0	194.3	242.5	280.7	294.4	271.7	248.9	225.6	206.3	190.0
70°	119.8	134.2	159.3	198.2	233.4	247.8	234.8	217.0	196.8	180.9	166.9
72.5°	97.1	111.1	129.6	158.2	188.3	203.9	199.3	186.6	170.2	157.0	143.8
75°	73.1	77.5	90.0	109.2	132.8	146.3	149.7	142.9	129.9	119.8	112.1
77.5°	54.1	56.6	62.7	72.8	88.1	100.2	105.1	104.3	95.4	89.4	82.3
80°	43.3	44.8	47.6	51.9	63.5	75.5	78.9	78.9	72.7	70.2	63.1
82.5°	32.9	33.9	35.7	38.1	43.5	54.0	57.8	58.5	54.6	51.4	45.7
85°	18.8	18.3	19.2	20.6	21.7	24.5	30.3	31.3	30.3	26.5	25.0
87.5°	7.5	7.8	7.7	7.2	7.4	7.6	9.4	11.2	9.8	8.9	8.2
90°	5.0	4.4	4.0	3.3	2.5	1.8	1.0	0.3	1.0	1.8	2.5
92.5°	6.5	6.2	6.0	5.8	5.9	6.0	6.1	6.1	6.1	6.0	5.9
95°	10.9	10.5	10.0	10.8	13.1	15.4	17.5	19.8	17.5	15.4	13.1
97.5°	13.7	12.6	11.5	14.1	20.5	26.7	33.0	39.3	33.0	26.7	20.5
100°	15.1	13.9	12.7	16.9	26.1	35.3	44.7	53.9	44.7	35.3	26.1
102.5°	37.1	46.8	56.4	62.2	64.2	66.1	68.1	70.0	68.1	66.1	64.2
105°	55.6	74.1	92.6	100.8	98.8	96.7	94.6	92.7	94.6	96.7	98.8
107.5°	70.4	92.6	114.7	125.0	123.4	121.7	120.1	118.4	120.1	121.7	123.4
110°	92.5	112.1	131.6	140.7	139.3	137.9	136.4	135.0	136.4	137.9	139.3



TEST NUMBER: P331675-830

CATALOG NUMBER: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	144.2	149.0	153.8	155.6	154.4	153.2	151.8	150.6	151.8	153.2	154.4
115°	184.6	182.9	181.3	179.8	178.7	177.6	176.3	175.2	176.3	177.6	178.7
117.5°	205.9	204.8	203.6	202.4	201.1	199.8	198.5	197.3	198.5	199.8	201.1
120°	220.9	219.7	218.5	217.4	216.4	215.4	214.3	213.3	214.3	215.4	216.4
122.5°	235.1	233.8	232.4	231.3	230.2	229.1	228.1	227.0	228.1	229.1	230.2
125°	255.0	253.6	252.4	251.3	250.4	249.5	248.6	247.8	248.6	249.5	250.4
127.5°	273.4	272.4	271.5	270.5	269.6	268.5	267.6	266.6	267.6	268.5	269.6
130°	285.3	284.6	283.8	282.9	281.8	280.7	279.7	278.5	279.7	280.7	281.8
132.5°	296.7	296.0	295.2	294.5	293.5	292.6	291.6	290.8	291.6	292.6	293.5
135°	313.0	312.4	311.8	310.9	309.8	308.8	307.6	306.6	307.6	308.8	309.8
137.5°	327.7	327.1	326.4	325.6	324.9	324.1	323.4	322.6	323.4	324.1	324.9
140°	337.4	336.7	335.9	335.3	334.7	334.1	333.7	333.1	333.7	334.1	334.7
142.5°	346.2	345.3	344.5	343.8	343.4	342.8	342.3	341.9	342.3	342.8	343.4
145°	358.3	357.0	355.9	355.3	355.4	355.5	355.6	355.6	355.6	355.5	355.4
147.5°	369.4	368.2	367.0	366.6	366.8	367.1	367.4	367.7	367.4	367.1	366.8
150°	376.1	374.9	373.9	373.5	374.0	374.5	374.9	375.4	374.9	374.5	374.0
152.5°	382.2	381.2	380.1	379.9	380.4	381.0	381.5	382.0	381.5	381.0	380.4
155°	390.9	390.1	389.3	389.2	389.7	390.4	391.0	391.6	391.0	390.4	389.7
157.5°	398.2	397.7	397.1	397.0	397.6	398.0	398.6	399.1	398.6	398.0	397.6
160°	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5	403.1	402.7	402.3
162.5°	406.4	406.0	405.8	405.8	406.1	406.6	407.0	407.4	407.0	406.6	406.1
165°	411.3	411.1	410.9	411.0	411.4	411.8	412.3	412.6	412.3	411.8	411.4
167.5°	415.2	415.0	414.8	414.9	415.3	415.8	416.1	416.5	416.1	415.8	415.3
170°	417.3	417.1	417.0	417.1	417.5	417.9	418.3	418.8	418.3	417.9	417.5
172.5°	418.7	418.6	418.4	418.6	419.0	419.3	419.8	420.2	419.8	419.3	419.0
175°	420.3	420.2	420.0	420.2	420.7	421.1	421.6	422.1	421.6	421.1	420.7
177.5°	420.8	420.8	420.8	420.8	421.2	421.6	422.0	422.4	422.0	421.6	421.2
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331675-830

CATALOG NUMBER: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1365.1	1362.4	1357.4	1349.6	1345.0	1336.9	1331.5	1334.6	1335.4	1334.6	1333.9
5°	1328.4	1318.2	1304.3	1290.8	1278.4	1264.9	1257.2	1253.8	1247.1	1243.2	1241.3
7.5°	1284.0	1266.6	1246.9	1223.4	1203.4	1182.6	1172.0	1166.6	1152.8	1145.4	1138.8
10°	1250.9	1223.5	1203.8	1173.0	1154.2	1126.8	1108.1	1108.5	1089.8	1079.1	1071.5
12.5°	1214.4	1184.2	1151.4	1123.7	1097.6	1075.6	1053.0	1043.9	1023.9	1013.7	993.0
15°	1153.8	1118.6	1084.0	1046.4	1020.0	985.8	953.1	913.1	880.9	853.0	845.4
17.5°	1087.5	1044.1	1009.3	965.3	919.9	862.4	824.5	801.3	781.9	767.2	756.2
20°	1042.1	997.9	960.8	894.4	833.3	794.4	766.5	748.7	728.4	712.6	703.9
22.5°	994.4	948.2	897.7	823.6	776.0	744.7	719.8	699.4	685.7	673.3	665.4
25°	926.6	876.1	792.9	741.9	703.4	670.7	653.4	640.8	626.4	609.5	601.9
27.5°	855.1	774.7	714.9	677.0	640.3	619.0	603.4	584.8	571.8	564.3	556.3
30°	801.5	721.2	674.6	633.2	607.2	583.6	565.3	554.8	542.2	529.2	524.0
32.5°	741.9	677.7	633.0	598.5	572.1	552.0	537.6	520.5	511.4	503.4	492.4
35°	667.8	619.3	578.3	550.4	525.4	509.1	492.2	482.1	465.7	459.0	454.7
37.5°	605.0	562.9	532.4	502.9	483.1	465.1	454.8	438.7	431.6	422.3	413.1
40°	569.7	528.3	498.9	474.9	452.7	439.2	426.3	413.3	402.7	398.4	387.3
42.5°	533.5	499.8	470.4	444.0	429.2	415.0	398.6	389.1	378.1	371.1	364.2
45°	483.5	453.7	428.7	407.0	390.7	375.8	365.1	349.3	343.1	329.0	323.3
47.5°	439.7	411.9	388.0	367.5	351.5	341.8	326.3	313.9	303.9	295.3	287.9
50°	408.5	385.4	362.3	344.0	329.6	315.7	299.7	293.5	278.1	273.7	269.5
52.5°	380.0	358.1	336.9	319.0	304.5	291.0	277.0	268.8	258.4	254.1	251.0
55°	340.2	319.0	298.8	282.9	268.4	254.5	245.8	235.7	230.9	227.5	223.8
57.5°	300.1	281.1	265.6	249.5	235.0	223.9	213.9	207.8	202.8	198.4	193.8
60°	274.8	256.5	242.5	227.5	212.6	203.5	195.9	188.6	182.9	176.1	174.2
62.5°	247.8	231.8	219.0	204.4	191.5	183.1	175.8	169.0	162.0	152.2	149.5
65°	210.8	198.2	184.7	172.8	161.2	153.0	142.4	134.7	131.9	130.8	130.4
67.5°	177.3	165.4	153.8	141.6	131.0	123.5	118.1	116.9	114.9	114.3	113.0
70°	155.0	143.8	132.3	120.7	110.7	109.2	107.3	105.4	102.9	102.0	101.0
72.5°	134.9	123.5	111.9	102.6	98.3	96.5	94.6	92.7	91.0	90.1	89.4
75°	103.4	92.8	85.2	81.8	79.4	77.9	75.0	73.6	72.7	71.2	70.7
77.5°	74.5	68.5	64.9	62.9	60.3	58.8	57.1	55.7	54.7	54.4	53.6
80°	56.7	53.9	51.5	48.6	47.6	45.7	45.2	43.8	44.3	42.8	42.8
82.5°	44.1	40.4	38.4	37.0	36.1	34.6	34.0	33.4	33.5	32.4	32.4
85°	22.6	21.7	20.6	19.7	19.7	18.3	18.8	18.3	18.3	17.3	16.9
87.5°	8.0	7.7	7.1	7.2	7.3	7.0	7.1	6.8	6.8	6.9	6.5
90°	3.3	4.0	4.4	5.0	5.6	6.1	6.4	6.8	7.1	7.4	7.7
92.5°	5.8	6.0	6.2	6.5	6.8	7.1	7.3	7.4	7.6	7.7	7.9
95°	10.8	10.0	10.5	10.9	11.4	11.9	12.3	12.5	12.9	13.2	13.4
97.5°	14.1	11.5	12.6	13.7	14.8	15.9	16.2	16.5	16.7	17.0	17.2
100°	16.9	12.7	13.9	15.1	16.2	17.3	17.9	18.5	19.0	19.5	19.9
102.5°	62.2	56.4	46.8	37.1	27.5	17.8	18.6	19.2	20.0	20.6	21.1
105°	100.8	92.6	74.1	55.6	37.0	18.6	19.3	20.1	20.8	21.6	22.1
107.5°	125.0	114.7	92.6	70.4	48.2	26.0	25.3	24.5	23.8	23.0	22.7
110°	140.7	131.6	112.1	92.5	72.9	53.3	46.6	39.8	33.0	26.2	23.0



TEST NUMBER: P331675-830

CATALOG NUMBER: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	155.6	153.8	149.0	144.2	139.3	134.5	109.8	85.1	60.4	35.7	23.5
115°	179.8	181.3	182.9	184.6	186.3	188.0	156.7	125.4	94.0	62.6	44.5
117.5°	202.4	203.6	204.8	205.9	207.1	208.3	200.7	193.1	185.5	178.0	166.2
120°	217.4	218.5	219.7	220.9	222.2	223.4	224.2	225.0	225.8	226.6	222.4
122.5°	231.3	232.4	233.8	235.1	236.5	237.8	238.3	238.7	239.2	239.7	239.0
125°	251.3	252.4	253.6	255.0	256.2	257.5	258.0	258.4	258.9	259.4	259.8
127.5°	270.5	271.5	272.4	273.4	274.4	275.3	276.0	276.7	277.4	278.1	278.4
130°	282.9	283.8	284.6	285.3	286.1	286.8	287.5	288.2	289.0	289.7	290.1
132.5°	294.5	295.2	296.0	296.7	297.5	298.2	298.9	299.5	300.1	300.8	301.0
135°	310.9	311.8	312.4	313.0	313.6	314.2	314.9	315.6	316.2	316.9	317.2
137.5°	325.6	326.4	327.1	327.7	328.5	329.1	329.8	330.5	331.1	331.8	332.0
140°	335.3	335.9	336.7	337.4	338.2	338.8	339.5	340.1	340.7	341.3	341.5
142.5°	343.8	344.5	345.3	346.2	347.0	347.9	348.5	349.0	349.6	350.2	350.2
145°	355.3	355.9	357.0	358.3	359.4	360.5	361.0	361.5	361.9	362.4	362.5
147.5°	366.6	367.0	368.2	369.4	370.5	371.6	371.9	372.3	372.7	373.1	373.1
150°	373.5	373.9	374.9	376.1	377.1	378.2	378.6	379.0	379.4	379.8	379.8
152.5°	379.9	380.1	381.2	382.2	383.2	384.3	384.7	385.1	385.5	385.9	385.9
155°	389.2	389.3	390.1	390.9	391.7	392.5	392.9	393.3	393.7	394.2	394.1
157.5°	397.0	397.1	397.7	398.2	398.8	399.4	399.8	400.3	400.8	401.1	401.1
160°	401.9	401.9	402.3	402.7	403.1	403.5	403.9	404.4	404.7	405.1	405.1
162.5°	405.8	405.8	406.0	406.4	406.8	407.2	407.6	408.0	408.5	409.0	409.0
165°	411.0	410.9	411.1	411.3	411.5	411.7	412.2	412.6	413.1	413.6	413.6
167.5°	414.9	414.8	415.0	415.2	415.4	415.6	416.0	416.5	417.0	417.5	417.4
170°	417.1	417.0	417.1	417.3	417.4	417.5	418.0	418.5	419.0	419.4	419.3
172.5°	418.6	418.4	418.6	418.7	418.9	419.0	419.4	419.9	420.4	420.8	420.8
175°	420.2	420.0	420.2	420.3	420.5	420.6	421.0	421.5	422.0	422.4	422.4
177.5°	420.8	420.8	420.8	420.8	420.8	420.9	421.3	421.7	422.1	422.4	422.4
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331675-830

CATALOG NUMBER: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1329.6	1330.4	1329.3	1330.0	1329.3	1330.4	1329.6	1333.9	1334.6	1335.4	1334.6
5°	1238.9	1233.1	1232.2	1230.7	1232.2	1233.1	1238.9	1241.3	1243.2	1247.1	1253.8
7.5°	1130.6	1129.6	1127.3	1123.9	1127.3	1129.6	1130.6	1138.8	1145.4	1152.8	1166.6
10°	1060.8	1058.5	1058.0	1054.6	1058.0	1058.5	1060.8	1071.5	1079.1	1089.8	1108.5
12.5°	979.3	963.7	962.1	953.8	962.1	963.7	979.3	993.0	1013.7	1023.9	1043.9
15°	833.8	830.9	821.2	815.0	821.2	830.9	833.8	845.4	853.0	880.9	913.1
17.5°	750.6	741.2	738.2	736.9	738.2	741.2	750.6	756.2	767.2	781.9	801.3
20°	697.1	688.5	687.0	686.1	687.0	688.5	697.1	703.9	712.6	728.4	748.7
22.5°	660.2	651.1	647.4	644.5	647.4	651.1	660.2	665.4	673.3	685.7	699.4
25°	597.1	593.7	591.8	590.8	591.8	593.7	597.1	601.9	609.5	626.4	640.8
27.5°	547.7	540.3	538.9	536.4	538.9	540.3	547.7	556.3	564.3	571.8	584.8
30°	519.6	517.2	513.9	511.0	513.9	517.2	519.6	524.0	529.2	542.2	554.8
32.5°	486.5	484.5	481.5	480.1	481.5	484.5	486.5	492.4	503.4	511.4	520.5
35°	449.9	443.1	440.3	435.9	440.3	443.1	449.9	454.7	459.0	465.7	482.1
37.5°	411.0	407.6	403.5	404.9	403.5	407.6	411.0	413.1	422.3	431.6	438.7
40°	381.1	378.6	377.7	377.2	377.7	378.6	381.1	387.3	398.4	402.7	413.3
42.5°	357.2	350.5	348.1	348.0	348.1	350.5	357.2	364.2	371.1	378.1	389.1
45°	320.9	314.6	310.3	310.9	310.3	314.6	320.9	323.3	329.0	343.1	349.3
47.5°	283.8	283.6	280.9	281.7	280.9	283.6	283.8	287.9	295.3	303.9	313.9
50°	266.1	263.2	261.3	261.7	261.3	263.2	266.1	269.5	273.7	278.1	293.5
52.5°	249.1	246.7	245.1	247.1	245.1	246.7	249.1	251.0	254.1	258.4	268.8
55°	221.3	218.4	217.9	217.4	217.9	218.4	221.3	223.8	227.5	230.9	235.7
57.5°	190.2	188.3	185.4	184.2	185.4	188.3	190.2	193.8	198.4	202.8	207.8
60°	167.9	164.1	159.3	158.7	159.3	164.1	167.9	174.2	176.1	182.9	188.6
62.5°	147.5	146.8	145.8	145.7	145.8	146.8	147.5	149.5	152.2	162.0	169.0
65°	129.4	128.9	129.4	129.9	129.4	128.9	129.4	130.4	130.8	131.9	134.7
67.5°	112.8	111.9	111.0	111.4	111.0	111.9	112.8	113.0	114.3	114.9	116.9
70°	100.1	99.6	99.2	99.2	99.2	99.6	100.1	101.0	102.0	102.9	105.4
72.5°	87.8	87.7	87.2	86.8	87.2	87.7	87.8	89.4	90.1	91.0	92.7
75°	70.2	69.3	69.3	69.3	69.3	69.3	70.2	70.7	71.2	72.7	73.6
77.5°	53.5	53.1	52.5	52.1	52.5	53.1	53.5	53.6	54.4	54.7	55.7
80°	42.3	41.8	41.4	41.4	41.4	41.8	42.3	42.8	42.8	44.3	43.8
82.5°	32.3	31.9	31.8	31.4	31.8	31.9	32.3	32.4	32.4	33.5	33.4
85°	17.3	17.8	17.3	18.3	17.3	17.8	17.3	16.9	17.3	18.3	18.3
87.5°	6.6	6.2	6.6	6.2	6.6	6.2	6.6	6.5	6.9	6.8	6.8
90°	7.8	7.9	8.1	8.2	8.1	7.9	7.8	7.7	7.4	7.1	6.8
92.5°	8.0	8.1	8.1	8.2	8.1	8.1	8.0	7.9	7.7	7.6	7.4
95°	13.3	13.2	13.2	13.1	13.2	13.2	13.3	13.4	13.2	12.9	12.5
97.5°	17.2	17.3	17.4	17.5	17.4	17.3	17.2	17.2	17.0	16.7	16.5
100°	20.0	20.2	20.3	20.5	20.3	20.2	20.0	19.9	19.5	19.0	18.5
102.5°	21.3	21.5	21.7	21.9	21.7	21.5	21.3	21.1	20.6	20.0	19.2
105°	22.3	22.6	22.9	23.2	22.9	22.6	22.3	22.1	21.6	20.8	20.1
107.5°	23.0	23.3	23.6	23.8	23.6	23.3	23.0	22.7	23.0	23.8	24.5
110°	23.3	23.6	23.8	24.0	23.8	23.6	23.3	23.0	26.2	33.0	39.8



TEST NUMBER: P331675-830

CATALOG NUMBER: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	23.7	23.8	24.1	24.3	24.1	23.8	23.7	23.5	35.7	60.4	85.1
115°	39.6	34.8	29.9	25.0	29.9	34.8	39.6	44.5	62.6	94.0	125.4
117.5°	150.1	134.1	118.1	102.1	118.1	134.1	150.1	166.2	178.0	185.5	193.1
120°	213.3	204.2	195.0	185.9	195.0	204.2	213.3	222.4	226.6	225.8	225.0
122.5°	237.3	235.5	233.8	232.0	233.8	235.5	237.3	239.0	239.7	239.2	238.7
125°	260.0	260.1	260.3	260.5	260.3	260.1	260.0	259.8	259.4	258.9	258.4
127.5°	278.5	278.5	278.5	278.6	278.5	278.5	278.5	278.4	278.1	277.4	276.7
130°	290.0	289.9	289.9	289.8	289.9	289.9	290.0	290.1	289.7	289.0	288.2
132.5°	301.0	301.0	300.9	300.8	300.9	301.0	301.0	301.0	300.8	300.1	299.5
135°	317.1	316.9	316.8	316.6	316.8	316.9	317.1	317.2	316.9	316.2	315.6
137.5°	331.8	331.6	331.3	331.1	331.3	331.6	331.8	332.0	331.8	331.1	330.5
140°	341.1	340.8	340.4	340.1	340.4	340.8	341.1	341.5	341.3	340.7	340.1
142.5°	349.9	349.6	349.2	348.8	349.2	349.6	349.9	350.2	350.2	349.6	349.0
145°	362.1	361.8	361.5	361.1	361.5	361.8	362.1	362.5	362.4	361.9	361.5
147.5°	372.8	372.5	372.2	371.9	372.2	372.5	372.8	373.1	373.1	372.7	372.3
150°	379.6	379.2	378.8	378.5	378.8	379.2	379.6	379.8	379.8	379.4	379.0
152.5°	385.4	385.0	384.6	384.1	384.6	385.0	385.4	385.9	385.9	385.5	385.1
155°	393.5	393.0	392.5	391.9	392.5	393.0	393.5	394.1	394.2	393.7	393.3
157.5°	400.6	400.1	399.5	399.1	399.5	400.1	400.6	401.1	401.1	400.8	400.3
160°	404.6	404.2	403.7	403.2	403.7	404.2	404.6	405.1	405.1	404.7	404.4
162.5°	408.3	407.7	407.2	406.6	407.2	407.7	408.3	409.0	409.0	408.5	408.0
165°	413.1	412.6	412.2	411.7	412.2	412.6	413.1	413.6	413.6	413.1	412.6
167.5°	416.8	416.1	415.6	414.9	415.6	416.1	416.8	417.4	417.5	417.0	416.5
170°	418.8	418.1	417.5	416.9	417.5	418.1	418.8	419.3	419.4	419.0	418.5
172.5°	420.2	419.6	419.0	418.4	419.0	419.6	420.2	420.8	420.8	420.4	419.9
175°	421.7	421.0	420.3	419.6	420.3	421.0	421.7	422.4	422.4	422.0	421.5
177.5°	421.9	421.4	420.9	420.5	420.9	421.4	421.9	422.4	422.4	422.1	421.7
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331675-830

CATALOG NUMBER: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1331.5	1336.9	1345.0	1349.6	1357.4	1362.4	1365.1	1370.1	1372.7	1382.3	1392.4
5°	1257.2	1264.9	1278.4	1290.8	1304.3	1318.2	1328.4	1339.9	1350.5	1368.8	1388.1
7.5°	1172.0	1182.6	1203.4	1223.4	1246.9	1266.6	1284.0	1303.7	1321.4	1347.6	1374.9
10°	1108.1	1126.8	1154.2	1173.0	1203.8	1223.5	1250.9	1272.5	1297.1	1331.7	1362.5
12.5°	1053.0	1075.6	1097.6	1123.7	1151.4	1184.2	1214.4	1242.2	1271.3	1307.1	1343.3
15°	953.1	985.8	1020.0	1046.4	1084.0	1118.6	1153.8	1191.3	1226.9	1269.7	1316.8
17.5°	824.5	862.4	919.9	965.3	1009.3	1044.1	1087.5	1132.9	1174.9	1226.5	1279.0
20°	766.5	794.4	833.3	894.4	960.8	997.9	1042.1	1092.1	1140.3	1196.6	1252.8
22.5°	719.8	744.7	776.0	823.6	897.7	948.2	994.4	1045.2	1101.0	1158.5	1220.9
25°	653.4	670.7	703.4	741.9	792.9	876.1	926.6	977.6	1038.3	1099.9	1171.0
27.5°	603.4	619.0	640.3	677.0	714.9	774.7	855.1	910.7	971.1	1040.4	1114.3
30°	565.3	583.6	607.2	633.2	674.6	721.2	801.5	866.0	925.7	996.9	1075.8
32.5°	537.6	552.0	572.1	598.5	633.0	677.7	741.9	820.2	878.4	953.4	1035.8
35°	492.2	509.1	525.4	550.4	578.3	619.3	667.8	751.5	809.3	883.4	966.1
37.5°	454.8	465.1	483.1	502.9	532.4	562.9	605.0	680.1	742.5	815.3	900.0
40°	426.3	439.2	452.7	474.9	498.9	528.3	569.7	625.5	697.1	768.4	851.1
42.5°	398.6	415.0	429.2	444.0	470.4	499.8	533.5	580.8	654.0	721.4	801.8
45°	365.1	375.8	390.7	407.0	428.7	453.7	483.5	524.9	595.1	653.4	728.9
47.5°	326.3	341.8	351.5	367.5	388.0	411.9	439.7	475.4	532.3	586.9	657.0
50°	299.7	315.7	329.6	344.0	362.3	385.4	408.5	443.1	488.8	546.1	611.5
52.5°	277.0	291.0	304.5	319.0	336.9	358.1	380.0	410.4	449.6	502.2	565.7
55°	245.8	254.5	268.4	282.9	298.8	319.0	340.2	365.6	399.4	443.6	495.1
57.5°	213.9	223.9	235.0	249.5	265.6	281.1	300.1	323.2	349.8	389.8	433.9
60°	195.9	203.5	212.6	227.5	242.5	256.5	274.8	294.0	319.0	353.6	391.2
62.5°	175.8	183.1	191.5	204.4	219.0	231.8	247.8	268.2	289.4	320.9	353.8
65°	142.4	153.0	161.2	172.8	184.7	198.2	210.8	227.1	245.8	270.9	300.2
67.5°	118.1	123.5	131.0	141.6	153.8	165.4	177.3	190.0	206.3	225.6	248.9
70°	107.3	109.2	110.7	120.7	132.3	143.8	155.0	166.9	180.9	196.8	217.0
72.5°	94.6	96.5	98.3	102.6	111.9	123.5	134.9	143.8	157.0	170.2	186.6
75°	75.0	77.9	79.4	81.8	85.2	92.8	103.4	112.1	119.8	129.9	142.9
77.5°	57.1	58.8	60.3	62.9	64.9	68.5	74.5	82.3	89.4	95.4	104.3
80°	45.2	45.7	47.6	48.6	51.5	53.9	56.7	63.1	70.2	72.7	78.9
82.5°	34.0	34.6	36.1	37.0	38.4	40.4	44.1	45.7	51.4	54.6	58.5
85°	18.8	18.3	19.7	19.7	20.6	21.7	22.6	25.0	26.5	30.3	31.3
87.5°	7.1	7.0	7.3	7.2	7.1	7.7	8.0	8.2	8.9	9.8	11.2
90°	6.4	6.1	5.6	5.0	4.4	4.0	3.3	2.5	1.8	1.0	0.3
92.5°	7.3	7.1	6.8	6.5	6.2	6.0	5.8	5.9	6.0	6.1	6.1
95°	12.3	11.9	11.4	10.9	10.5	10.0	10.8	13.1	15.4	17.5	19.8
97.5°	16.2	15.9	14.8	13.7	12.6	11.5	14.1	20.5	26.7	33.0	39.3
100°	17.9	17.3	16.2	15.1	13.9	12.7	16.9	26.1	35.3	44.7	53.9
102.5°	18.6	17.8	27.5	37.1	46.8	56.4	62.2	64.2	66.1	68.1	70.0
105°	19.3	18.6	37.0	55.6	74.1	92.6	100.8	98.8	96.7	94.6	92.7
107.5°	25.3	26.0	48.2	70.4	92.6	114.7	125.0	123.4	121.7	120.1	118.4
110°	46.6	53.3	72.9	92.5	112.1	131.6	140.7	139.3	137.9	136.4	135.0



TEST NUMBER: P331675-830

CATALOG NUMBER: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.8	134.5	139.3	144.2	149.0	153.8	155.6	154.4	153.2	151.8	150.6
115°	156.7	188.0	186.3	184.6	182.9	181.3	179.8	178.7	177.6	176.3	175.2
117.5°	200.7	208.3	207.1	205.9	204.8	203.6	202.4	201.1	199.8	198.5	197.3
120°	224.2	223.4	222.2	220.9	219.7	218.5	217.4	216.4	215.4	214.3	213.3
122.5°	238.3	237.8	236.5	235.1	233.8	232.4	231.3	230.2	229.1	228.1	227.0
125°	258.0	257.5	256.2	255.0	253.6	252.4	251.3	250.4	249.5	248.6	247.8
127.5°	276.0	275.3	274.4	273.4	272.4	271.5	270.5	269.6	268.5	267.6	266.6
130°	287.5	286.8	286.1	285.3	284.6	283.8	282.9	281.8	280.7	279.7	278.5
132.5°	298.9	298.2	297.5	296.7	296.0	295.2	294.5	293.5	292.6	291.6	290.8
135°	314.9	314.2	313.6	313.0	312.4	311.8	310.9	309.8	308.8	307.6	306.6
137.5°	329.8	329.1	328.5	327.7	327.1	326.4	325.6	324.9	324.1	323.4	322.6
140°	339.5	338.8	338.2	337.4	336.7	335.9	335.3	334.7	334.1	333.7	333.1
142.5°	348.5	347.9	347.0	346.2	345.3	344.5	343.8	343.4	342.8	342.3	341.9
145°	361.0	360.5	359.4	358.3	357.0	355.9	355.3	355.4	355.5	355.6	355.6
147.5°	371.9	371.6	370.5	369.4	368.2	367.0	366.6	366.8	367.1	367.4	367.7
150°	378.6	378.2	377.1	376.1	374.9	373.9	373.5	374.0	374.5	374.9	375.4
152.5°	384.7	384.3	383.2	382.2	381.2	380.1	379.9	380.4	381.0	381.5	382.0
155°	392.9	392.5	391.7	390.9	390.1	389.3	389.2	389.7	390.4	391.0	391.6
157.5°	399.8	399.4	398.8	398.2	397.7	397.1	397.0	397.6	398.0	398.6	399.1
160°	403.9	403.5	403.1	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5
162.5°	407.6	407.2	406.8	406.4	406.0	405.8	405.8	406.1	406.6	407.0	407.4
165°	412.2	411.7	411.5	411.3	411.1	410.9	411.0	411.4	411.8	412.3	412.6
167.5°	416.0	415.6	415.4	415.2	415.0	414.8	414.9	415.3	415.8	416.1	416.5
170°	418.0	417.5	417.4	417.3	417.1	417.0	417.1	417.5	417.9	418.3	418.8
172.5°	419.4	419.0	418.9	418.7	418.6	418.4	418.6	419.0	419.3	419.8	420.2
175°	421.0	420.6	420.5	420.3	420.2	420.0	420.2	420.7	421.1	421.6	422.1
177.5°	421.3	420.9	420.8	420.8	420.8	420.8	420.8	421.2	421.6	422.0	422.4
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331675-830

CATALOG NUMBER: SA2XXRDIP-C675D330U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1392.8	1393.9	1401.7	1405.0	1412.0	1414.7	1417.8	1417.0	1417.0	1418.5	1429.4
5°	1395.7	1405.3	1419.8	1433.7	1447.2	1458.8	1466.5	1474.1	1477.1	1491.0	1503.5
7.5°	1390.7	1408.4	1432.3	1453.6	1479.0	1499.0	1515.5	1530.5	1540.7	1560.9	1581.8
10°	1384.2	1409.2	1436.2	1463.6	1498.7	1525.1	1552.1	1572.8	1579.5	1609.9	1627.2
12.5°	1371.1	1404.6	1438.9	1474.3	1508.7	1545.2	1574.8	1595.5	1619.2	1646.4	1678.4
15°	1351.5	1390.0	1434.7	1480.5	1529.5	1573.8	1605.5	1641.6	1667.5	1697.4	1725.3
17.5°	1323.2	1372.8	1429.7	1482.6	1539.4	1587.0	1630.6	1665.3	1683.6	1700.5	1704.7
20°	1301.0	1354.3	1421.3	1483.8	1540.6	1595.4	1638.7	1667.5	1672.4	1672.8	1647.4
22.5°	1276.7	1337.0	1407.0	1471.1	1539.0	1600.1	1633.7	1646.1	1626.9	1594.3	1545.0
25°	1232.2	1301.9	1383.3	1456.3	1530.5	1588.2	1599.8	1578.1	1511.2	1441.0	1352.0
27.5°	1183.8	1262.3	1349.4	1430.8	1509.7	1545.5	1520.5	1442.5	1322.0	1217.3	1090.4
30°	1148.5	1236.5	1322.1	1413.1	1486.2	1501.6	1444.4	1329.4	1188.8	1031.0	904.6
32.5°	1108.1	1200.3	1294.4	1388.5	1449.6	1434.6	1340.0	1198.4	1033.8	878.6	759.0
35°	1050.3	1145.6	1247.1	1341.3	1380.4	1315.4	1173.9	989.7	821.2	676.5	594.2
37.5°	983.6	1087.3	1192.9	1279.5	1276.7	1168.5	975.8	785.6	644.0	558.4	499.8
40°	936.2	1041.1	1155.2	1228.3	1197.0	1056.0	847.3	667.8	564.4	496.1	453.2
42.5°	890.9	996.1	1109.4	1167.5	1113.1	939.8	731.8	591.2	505.9	452.5	417.8
45°	813.6	924.7	1029.6	1061.9	964.7	773.6	591.8	489.7	433.0	393.6	369.5
47.5°	738.0	847.3	943.1	943.7	812.2	627.4	499.2	423.9	375.4	344.9	327.3
50°	691.8	795.8	876.1	863.7	714.4	558.1	446.5	381.5	341.1	317.5	299.3
52.5°	639.9	740.7	810.3	774.7	631.7	491.2	399.2	344.6	311.1	290.6	274.3
55°	564.4	653.8	702.9	649.0	515.3	408.5	337.2	294.5	269.5	252.1	238.2
57.5°	490.1	564.0	594.8	532.2	424.4	338.7	285.3	253.2	228.4	215.9	208.7
60°	443.6	506.6	528.3	459.0	369.0	296.3	252.6	222.7	204.4	196.3	189.1
62.5°	397.8	449.3	458.3	394.7	321.7	259.4	221.8	196.6	184.5	176.6	169.8
65°	330.1	367.1	362.8	311.8	254.5	205.9	178.5	163.1	153.9	142.9	130.8
67.5°	271.7	294.4	280.7	242.5	194.3	160.0	142.1	130.4	119.1	108.7	105.8
70°	234.8	247.8	233.4	198.2	159.3	134.2	119.8	105.8	99.2	96.7	92.4
72.5°	199.3	203.9	188.3	158.2	129.6	111.1	97.1	89.3	85.7	83.6	80.9
75°	149.7	146.3	132.8	109.2	90.0	77.5	73.1	70.2	67.9	65.9	64.5
77.5°	105.1	100.2	88.1	72.8	62.7	56.6	54.1	52.5	51.4	50.4	49.0
80°	78.9	75.5	63.5	51.9	47.6	44.8	43.3	41.4	41.4	40.4	38.9
82.5°	57.8	54.0	43.5	38.1	35.7	33.9	32.9	31.8	31.4	31.6	30.5
85°	30.3	24.5	21.7	20.6	19.2	18.3	18.8	17.8	17.8	17.8	17.3
87.5°	9.4	7.6	7.4	7.2	7.7	7.8	7.5	7.6	8.1	7.8	8.3
90°	1.0	1.8	2.5	3.3	4.0	4.4	5.0	5.6	6.1	6.4	6.8
92.5°	6.1	6.0	5.9	5.8	6.0	6.2	6.5	6.8	7.1	7.3	7.4
95°	17.5	15.4	13.1	10.8	10.0	10.5	10.9	11.4	11.9	12.3	12.5
97.5°	33.0	26.7	20.5	14.1	11.5	12.6	13.7	14.8	15.9	16.2	16.5
100°	44.7	35.3	26.1	16.9	12.7	13.9	15.1	16.2	17.3	17.9	18.5
102.5°	68.1	66.1	64.2	62.2	56.4	46.8	37.1	27.5	17.8	18.6	19.2
105°	94.6	96.7	98.8	100.8	92.6	74.1	55.6	37.0	18.6	19.3	20.1
107.5°	120.1	121.7	123.4	125.0	114.7	92.6	70.4	48.2	26.0	25.3	24.5
110°	136.4	137.9	139.3	140.7	131.6	112.1	92.5	72.9	53.3	46.6	39.8



TEST NUMBER: P331675-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.8	153.2	154.4	155.6	153.8	149.0	144.2	139.3	134.5	109.8	85.1
115°	176.3	177.6	178.7	179.8	181.3	182.9	184.6	186.3	188.0	156.7	125.4
117.5°	198.5	199.8	201.1	202.4	203.6	204.8	205.9	207.1	208.3	200.7	193.1
120°	214.3	215.4	216.4	217.4	218.5	219.7	220.9	222.2	223.4	224.2	225.0
122.5°	228.1	229.1	230.2	231.3	232.4	233.8	235.1	236.5	237.8	238.3	238.7
125°	248.6	249.5	250.4	251.3	252.4	253.6	255.0	256.2	257.5	258.0	258.4
127.5°	267.6	268.5	269.6	270.5	271.5	272.4	273.4	274.4	275.3	276.0	276.7
130°	279.7	280.7	281.8	282.9	283.8	284.6	285.3	286.1	286.8	287.5	288.2
132.5°	291.6	292.6	293.5	294.5	295.2	296.0	296.7	297.5	298.2	298.9	299.5
135°	307.6	308.8	309.8	310.9	311.8	312.4	313.0	313.6	314.2	314.9	315.6
137.5°	323.4	324.1	324.9	325.6	326.4	327.1	327.7	328.5	329.1	329.8	330.5
140°	333.7	334.1	334.7	335.3	335.9	336.7	337.4	338.2	338.8	339.5	340.1
142.5°	342.3	342.8	343.4	343.8	344.5	345.3	346.2	347.0	347.9	348.5	349.0
145°	355.6	355.5	355.4	355.3	355.9	357.0	358.3	359.4	360.5	361.0	361.5
147.5°	367.4	367.1	366.8	366.6	367.0	368.2	369.4	370.5	371.6	371.9	372.3
150°	374.9	374.5	374.0	373.5	373.9	374.9	376.1	377.1	378.2	378.6	379.0
152.5°	381.5	381.0	380.4	379.9	380.1	381.2	382.2	383.2	384.3	384.7	385.1
155°	391.0	390.4	389.7	389.2	389.3	390.1	390.9	391.7	392.5	392.9	393.3
157.5°	398.6	398.0	397.6	397.0	397.1	397.7	398.2	398.8	399.4	399.8	400.3
160°	403.1	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5	403.9	404.4
162.5°	407.0	406.6	406.1	405.8	405.8	406.0	406.4	406.8	407.2	407.6	408.0
165°	412.3	411.8	411.4	411.0	410.9	411.1	411.3	411.5	411.7	412.2	412.6
167.5°	416.1	415.8	415.3	414.9	414.8	415.0	415.2	415.4	415.6	416.0	416.5
170°	418.3	417.9	417.5	417.1	417.0	417.1	417.3	417.4	417.5	418.0	418.5
172.5°	419.8	419.3	419.0	418.6	418.4	418.6	418.7	418.9	419.0	419.4	419.9
175°	421.6	421.1	420.7	420.2	420.0	420.2	420.3	420.5	420.6	421.0	421.5
177.5°	422.0	421.6	421.2	420.8	420.8	420.8	420.8	420.8	420.9	421.3	421.7
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1433.1	1438.1	1440.5	1440.5	1443.2	1442.0	1440.9
5°	1515.5	1524.7	1526.6	1535.3	1541.5	1539.5	1540.6
7.5°	1597.4	1612.1	1626.6	1633.3	1634.4	1638.2	1639.6
10°	1647.8	1659.9	1682.5	1679.1	1695.9	1705.6	1689.7
12.5°	1696.4	1712.6	1728.2	1732.6	1742.2	1745.2	1739.0
15°	1740.2	1748.9	1749.8	1747.5	1750.3	1747.9	1738.8
17.5°	1699.2	1685.2	1656.7	1643.2	1632.6	1616.7	1610.4
20°	1631.4	1590.1	1542.0	1522.8	1500.2	1455.9	1466.5
22.5°	1485.3	1438.0	1390.0	1333.8	1306.9	1265.0	1262.4
25°	1257.6	1176.4	1086.8	1024.4	987.8	945.9	927.7
27.5°	977.8	875.4	802.1	765.0	731.2	698.0	696.6
30°	793.8	716.9	660.1	628.4	607.7	593.7	596.6
32.5°	669.1	616.4	578.2	551.8	536.5	525.9	525.8
35°	547.1	511.0	486.4	475.3	464.3	456.6	457.0
37.5°	468.2	446.5	432.8	420.6	413.7	409.9	407.8
40°	427.7	409.9	399.4	392.1	386.3	381.1	380.1
42.5°	395.8	381.1	370.4	364.8	359.4	355.6	354.7
45°	351.2	339.2	329.6	323.3	320.9	317.5	317.5
47.5°	312.5	300.6	293.1	289.2	285.0	282.8	282.7
50°	286.3	277.1	270.4	268.0	264.6	263.2	262.7
52.5°	262.8	256.0	251.2	249.5	248.1	246.2	246.6
55°	230.9	227.1	225.2	223.8	221.3	218.4	220.4
57.5°	204.1	200.9	195.7	191.1	188.9	186.9	187.7
60°	185.2	178.5	171.7	166.5	165.0	160.7	160.7
62.5°	161.4	151.9	143.6	140.7	139.2	137.2	136.9
65°	124.1	120.3	118.4	116.4	115.5	115.5	114.5
67.5°	102.8	101.3	99.2	98.7	97.7	97.5	97.2
70°	91.0	89.0	88.0	87.6	86.6	87.1	85.7
72.5°	79.4	77.9	77.7	76.4	75.8	75.9	74.8
75°	62.6	62.6	62.0	61.5	60.6	60.1	60.6
77.5°	48.1	48.2	47.3	47.2	47.1	47.2	46.8
80°	38.5	38.9	38.5	38.0	37.5	38.0	37.5
82.5°	30.4	29.7	29.6	29.5	29.4	29.1	29.0
85°	17.3	17.8	17.3	16.9	16.9	16.9	17.3
87.5°	8.0	8.0	8.1	8.1	8.1	8.2	7.8
90°	7.1	7.4	7.7	7.8	7.9	8.1	8.2
92.5°	7.6	7.7	7.9	8.0	8.1	8.1	8.2
95°	12.9	13.2	13.4	13.3	13.2	13.2	13.1
97.5°	16.7	17.0	17.2	17.2	17.3	17.4	17.5
100°	19.0	19.5	19.9	20.0	20.2	20.3	20.5
102.5°	20.0	20.6	21.1	21.3	21.5	21.7	21.9
105°	20.8	21.6	22.1	22.3	22.6	22.9	23.2
107.5°	23.8	23.0	22.7	23.0	23.3	23.6	23.8
110°	33.0	26.2	23.0	23.3	23.6	23.8	24.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	60.4	35.7	23.5	23.7	23.8	24.1	24.3
115°	94.0	62.6	44.5	39.6	34.8	29.9	25.0
117.5°	185.5	178.0	166.2	150.1	134.1	118.1	102.1
120°	225.8	226.6	222.4	213.3	204.2	195.0	185.9
122.5°	239.2	239.7	239.0	237.3	235.5	233.8	232.0
125°	258.9	259.4	259.8	260.0	260.1	260.3	260.5
127.5°	277.4	278.1	278.4	278.5	278.5	278.5	278.6
130°	289.0	289.7	290.1	290.0	289.9	289.9	289.8
132.5°	300.1	300.8	301.0	301.0	301.0	300.9	300.8
135°	316.2	316.9	317.2	317.1	316.9	316.8	316.6
137.5°	331.1	331.8	332.0	331.8	331.6	331.3	331.1
140°	340.7	341.3	341.5	341.1	340.8	340.4	340.1
142.5°	349.6	350.2	350.2	349.9	349.6	349.2	348.8
145°	361.9	362.4	362.5	362.1	361.8	361.5	361.1
147.5°	372.7	373.1	373.1	372.8	372.5	372.2	371.9
150°	379.4	379.8	379.8	379.6	379.2	378.8	378.5
152.5°	385.5	385.9	385.9	385.4	385.0	384.6	384.1
155°	393.7	394.2	394.1	393.5	393.0	392.5	391.9
157.5°	400.8	401.1	401.1	400.6	400.1	399.5	399.1
160°	404.7	405.1	405.1	404.6	404.2	403.7	403.2
162.5°	408.5	409.0	409.0	408.3	407.7	407.2	406.6
165°	413.1	413.6	413.6	413.1	412.6	412.2	411.7
167.5°	417.0	417.5	417.4	416.8	416.1	415.6	414.9
170°	419.0	419.4	419.3	418.8	418.1	417.5	416.9
172.5°	420.4	420.8	420.8	420.2	419.6	419.0	418.4
175°	422.0	422.4	422.4	421.7	421.0	420.3	419.6
177.5°	422.1	422.4	422.4	421.9	421.4	420.9	420.5
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1

(END OF REPORT)