

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: P331689-830

Luminaire Tested: **SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331689-830  
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-C675D725U830-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

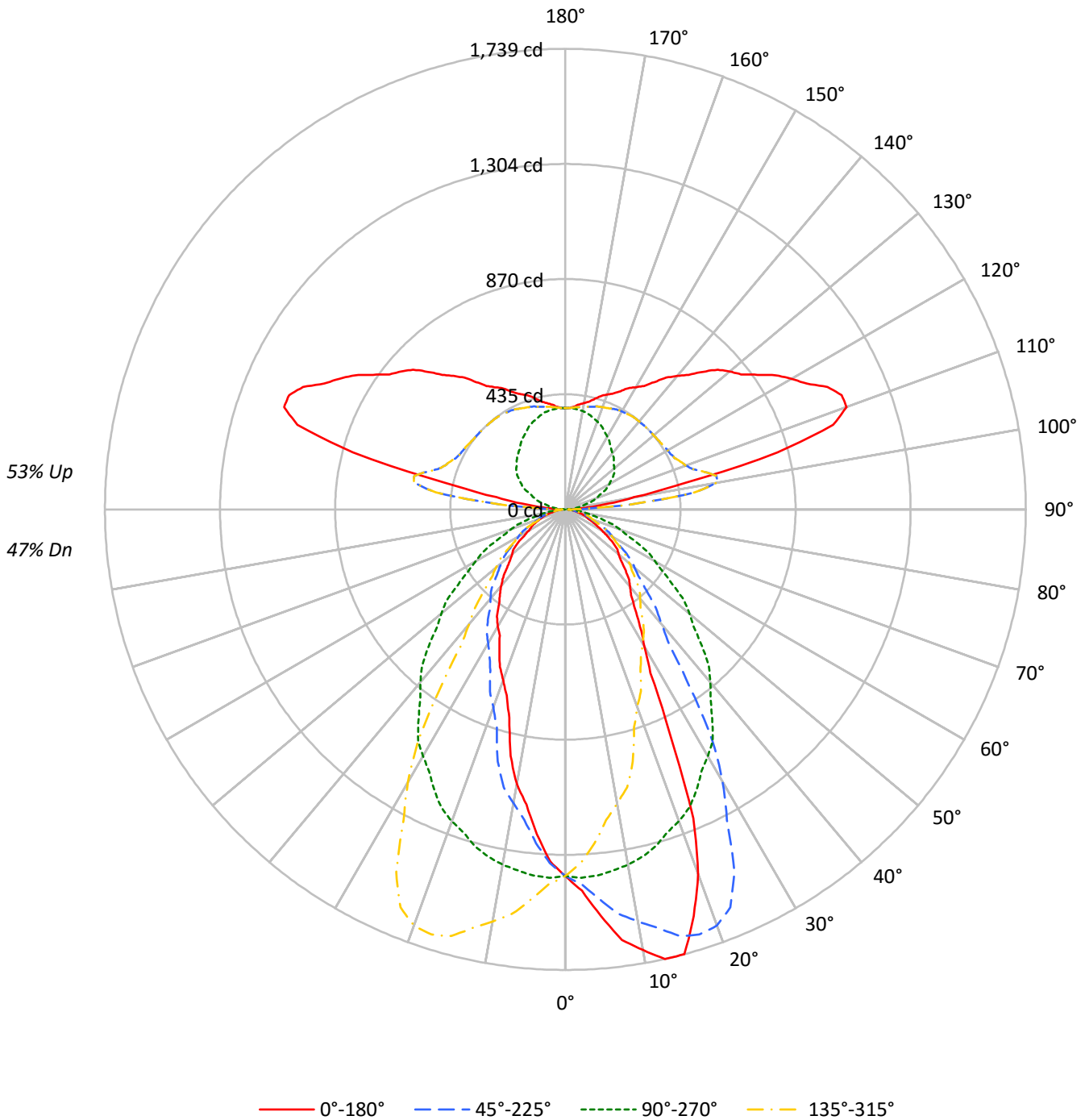
Lumens per Lamp: N/A  
Luminaire Lumens: 5062.5 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 45.9  
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	98	94	90	87	90	87	83	81	73	71	69	60	59	57	49	48	47	41
2	90	83	77	72	82	77	72	67	65	61	58	54	51	49	44	42	41	36
3	82	74	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31
4	76	66	58	53	70	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	59	51	46	64	55	48	43	47	42	38	40	36	33	33	30	28	25
6	65	53	46	40	60	50	43	38	43	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	23	20
8	56	44	37	32	52	41	35	30	36	31	27	31	27	24	26	23	21	18
9	52	41	33	29	48	38	31	27	33	28	24	28	24	22	24	21	19	17
10	49	37	30	26	45	35	29	25	31	26	22	26	22	20	22	19	17	15

**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	2.6
10°-20°	365.7	7.2
20°-30°	471.3	9.3
30°-40°	447.9	8.8
40°-50°	383.7	7.6
50°-60°	292.2	5.8
60°-70°	184.7	3.6
70°-80°	92.2	1.8
80°-90°	27.5	0.5
90°-100°	153.2	3.0
100°-110°	519.8	10.3
110°-120°	552.3	10.9
120°-130°	454.6	9.0
130°-140°	365.1	7.2
140°-150°	275.9	5.4
150°-160°	193.9	3.8
160°-170°	114.1	2.3
170°-180°	37.1	0.7
0°-30°	968.3	19.1
0°-40°	1416.2	28.0
0°-60°	2092.1	41.3
0°-90°	2396.5	47.3
90°-120°	1225.3	24.2
90°-150°	2320.9	45.8
90°-180°	2666.0	52.7
0°-180°	5062.5	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°	24	1	24	1	24	14
95°	84	26	84	26	84	109
105°	830	90	830	90	830	803
115°	1093	158	1093	158	1093	1070
125°	886	221	886	221	886	801
135°	735	259	735	259	735	571
145°	586	296	586	296	586	372
155°	493	337	493	337	493	230
165°	432	367	432	367	432	124
175°	390	382	390	382	390	38
180°	383	383	383	383	383	



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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°	11.0	11.4	11.4	11.4	11.4	11.2	10.9	11.7	11.4	12.0	11.4
90°	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6	24.3	25.1	24.3
92.5°	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3	80.9	95.8	94.4
95°	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0	252.7	288.8	255.7
97.5°	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4	517.3	493.0	371.4
100°	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7	688.2	582.0	400.8
102.5°	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3	751.8	585.0	389.6
105°	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2	742.0	545.9	367.7
107.5°	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8	677.2	504.1	356.8
110°	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0	636.6	484.1	354.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5	608.3	471.1	355.0
115°	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7	573.3	456.9	358.1
117.5°	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4	551.1	449.9	363.4
120°	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3	539.3	445.7	366.9
122.5°	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5	529.3	443.4	371.1
125°	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3	515.0	439.1	377.2
127.5°	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5	501.7	436.6	383.6
130°	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7	492.9	435.5	388.3
132.5°	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6	485.9	434.9	393.0
135°	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9	476.0	433.9	398.6
137.5°	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1	469.0	433.9	403.6
140°	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0	465.0	433.2	406.0
142.5°	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8	460.8	433.2	407.7
145°	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2	455.3	431.8	409.6
147.5°	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2	449.8	429.1	410.3
150°	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7	445.0	427.3	409.6
152.5°	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2	440.9	424.4	408.5
155°	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2	433.2	419.2	406.7
157.5°	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8	426.0	414.0	403.3
160°	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3	420.8	410.4	401.5
162.5°	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8	415.9	407.5	399.8
165°	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1	408.2	401.5	396.4
167.5°	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8	400.5	396.4	393.0
170°	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1	396.4	393.4	391.2
172.5°	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7	392.3	389.9	388.9
175°	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0	386.8	386.1	385.3
177.5°	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9	383.7	383.1	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



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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°	10.6	9.9	9.1	8.3	8.4	8.5	9.8	11.3	10.2	9.6	9.1
90°	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8	2.9	5.9	7.4
92.5°	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0	13.0	18.3	21.5
95°	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8	28.7	36.1	42.7
97.5°	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0	46.0	53.8	63.8
100°	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7	58.9	65.6	77.4
102.5°	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3	71.9	78.5	90.3
105°	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9	92.8	98.0	109.1
107.5°	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1	113.5	118.5	128.7
110°	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3	128.2	132.6	142.2





TEST NUMBER: P331689-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2	141.2	146.2	155.1
115°	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4	162.1	166.5	175.3
117.5°	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4	182.3	186.7	194.5
120°	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3	195.3	199.6	206.3
122.5°	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7	207.1	211.4	218.7
125°	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0	223.3	227.6	236.5
127.5°	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0	237.0	243.2	252.9
130°	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7	244.6	251.9	262.3
132.5°	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7	252.3	260.2	271.2
135°	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4	262.3	271.2	282.2
137.5°	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4	272.9	281.7	293.5
140°	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0	279.9	288.8	300.6
142.5°	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6	287.1	295.3	307.1
145°	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1	299.2	306.5	317.5
147.5°	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6	310.8	317.8	328.0
150°	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8	319.1	324.9	334.5
152.5°	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1	326.1	332.0	340.4
155°	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7	337.4	341.9	350.0
157.5°	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5	347.1	350.7	357.8
160°	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9	353.6	356.6	362.5
162.5°	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4	358.9	361.9	366.6
165°	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9	366.2	367.7	372.1
167.5°	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2	372.2	373.5	376.4
170°	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2	375.8	376.5	378.7
172.5°	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6	378.7	378.2	380.5
175°	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4	381.6	380.9	382.4
177.5°	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7	382.6	381.9	383.1
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331689-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4

**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°	9.0	9.1	9.1	10.2	11.0	10.7	10.7	10.1	9.8	10.1	9.9
90°	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6	22.1	23.6	24.3
92.5°	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3	55.1	48.9	44.4
95°	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0	148.1	117.2	100.9
97.5°	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4	368.5	288.8	235.6
100°	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7	581.4	480.4	391.2
102.5°	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3	797.7	723.8	629.3
105°	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2	978.5	988.1	963.7
107.5°	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8	965.2	1041.8	1077.5
110°	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0	924.0	1018.2	1078.6



TEST NUMBER: P331689-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5	875.0	975.8	1045.1
115°	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7	808.2	904.7	980.6
117.5°	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4	754.0	841.6	912.8
120°	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3	725.8	803.8	870.9
122.5°	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5	702.2	776.1	836.7
125°	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3	671.2	736.0	791.3
127.5°	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5	641.1	702.3	753.3
130°	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7	621.1	679.3	727.9
132.5°	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6	602.3	655.7	701.4
135°	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9	572.5	621.1	662.3
137.5°	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1	548.7	587.4	623.3
140°	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0	533.5	567.3	599.7
142.5°	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8	519.9	549.0	576.2
145°	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2	502.5	525.4	546.7
147.5°	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2	488.3	506.1	521.8
150°	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7	478.9	494.4	507.7
152.5°	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2	471.3	484.4	495.9
155°	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2	459.0	470.0	478.2
157.5°	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8	446.7	455.9	462.2
160°	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3	438.4	446.5	451.7
162.5°	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8	430.7	437.6	441.7
165°	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1	419.2	424.4	427.3
167.5°	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8	408.8	412.3	415.0
170°	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1	402.3	405.2	406.7
172.5°	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7	396.4	398.8	399.6
175°	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0	389.7	390.5	391.2
177.5°	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9	384.9	385.5	385.5
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331689-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4

**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°	9.9	9.5	9.9	9.5	9.9	9.5	9.9	9.9	10.1	9.8	10.1
90°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6
92.5°	43.7	41.4	42.0	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3
95°	91.3	85.5	83.2	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0
97.5°	200.4	182.3	171.5	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4
100°	330.1	298.4	277.0	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7
102.5°	562.9	508.8	482.1	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3
105°	918.0	872.3	840.7	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2
107.5°	1083.3	1080.7	1074.4	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8
110°	1110.3	1124.4	1131.0	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0



TEST NUMBER: P331689-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1089.1	1112.6	1125.1	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5
115°	1032.9	1066.9	1086.0	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7
117.5°	966.1	1001.9	1022.1	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4
120°	922.5	957.1	978.5	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3
122.5°	883.0	917.0	936.0	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5
125°	834.1	862.0	880.4	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3
127.5°	790.6	816.8	832.7	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5
130°	764.0	789.1	803.8	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7
132.5°	737.0	762.0	775.5	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6
135°	694.1	718.4	731.6	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9
137.5°	652.2	673.2	684.8	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1
140°	623.3	642.4	653.6	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0
142.5°	598.6	616.0	625.8	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8
145°	564.4	576.9	584.3	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2
147.5°	536.4	546.4	551.4	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2
150°	518.7	527.5	532.0	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7
152.5°	504.5	512.2	515.5	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2
155°	486.3	491.4	494.4	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2
157.5°	468.0	472.3	473.6	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8
160°	456.9	460.5	461.2	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3
162.5°	446.8	449.3	450.1	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8
165°	430.3	433.2	433.2	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1
167.5°	416.3	417.9	417.7	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8
170°	407.5	409.6	408.9	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1
172.5°	400.4	401.4	400.7	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7
175°	391.2	392.0	391.2	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0
177.5°	385.5	385.5	384.9	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331689-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4

**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°	10.7	10.7	11.0	10.2	9.1	9.1	9.0	9.1	9.6	10.2	11.3
90°	24.3	25.1	24.3	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8
92.5°	80.9	95.8	94.4	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0
95°	252.7	288.8	255.7	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8
97.5°	517.3	493.0	371.4	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0
100°	688.2	582.0	400.8	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7
102.5°	751.8	585.0	389.6	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3
105°	742.0	545.9	367.7	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9
107.5°	677.2	504.1	356.8	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1
110°	636.6	484.1	354.4	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3



TEST NUMBER: P331689-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	608.3	471.1	355.0	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2
115°	573.3	456.9	358.1	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4
117.5°	551.1	449.9	363.4	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4
120°	539.3	445.7	366.9	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3
122.5°	529.3	443.4	371.1	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7
125°	515.0	439.1	377.2	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0
127.5°	501.7	436.6	383.6	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0
130°	492.9	435.5	388.3	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7
132.5°	485.9	434.9	393.0	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7
135°	476.0	433.9	398.6	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4
137.5°	469.0	433.9	403.6	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4
140°	465.0	433.2	406.0	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0
142.5°	460.8	433.2	407.7	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6
145°	455.3	431.8	409.6	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1
147.5°	449.8	429.1	410.3	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6
150°	445.0	427.3	409.6	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8
152.5°	440.9	424.4	408.5	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1
155°	433.2	419.2	406.7	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7
157.5°	426.0	414.0	403.3	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5
160°	420.8	410.4	401.5	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9
162.5°	415.9	407.5	399.8	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4
165°	408.2	401.5	396.4	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9
167.5°	400.5	396.4	393.0	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2
170°	396.4	393.4	391.2	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2
172.5°	392.3	389.9	388.9	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6
175°	386.8	386.1	385.3	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4
177.5°	383.7	383.1	383.7	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1





TEST NUMBER: P331689-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-A4

**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°	9.8	8.5	8.4	8.3	9.1	9.9	10.6	11.4	12.0	11.4	11.7
90°	2.9	5.9	7.4	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6
92.5°	13.0	18.3	21.5	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3
95°	28.7	36.1	42.7	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0
97.5°	46.0	53.8	63.8	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4
100°	58.9	65.6	77.4	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7
102.5°	71.9	78.5	90.3	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3
105°	92.8	98.0	109.1	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2
107.5°	113.5	118.5	128.7	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8
110°	128.2	132.6	142.2	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	141.2	146.2	155.1	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5
115°	162.1	166.5	175.3	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7
117.5°	182.3	186.7	194.5	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4
120°	195.3	199.6	206.3	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3
122.5°	207.1	211.4	218.7	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5
125°	223.3	227.6	236.5	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3
127.5°	237.0	243.2	252.9	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5
130°	244.6	251.9	262.3	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7
132.5°	252.3	260.2	271.2	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6
135°	262.3	271.2	282.2	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9
137.5°	272.9	281.7	293.5	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1
140°	279.9	288.8	300.6	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0
142.5°	287.1	295.3	307.1	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8
145°	299.2	306.5	317.5	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2
147.5°	310.8	317.8	328.0	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2
150°	319.1	324.9	334.5	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7
152.5°	326.1	332.0	340.4	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2
155°	337.4	341.9	350.0	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2
157.5°	347.1	350.7	357.8	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8
160°	353.6	356.6	362.5	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3
162.5°	358.9	361.9	366.6	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8
165°	366.2	367.7	372.1	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1
167.5°	372.2	373.5	376.4	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8
170°	375.8	376.5	378.7	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1
172.5°	378.7	378.2	380.5	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7
175°	381.6	380.9	382.4	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0
177.5°	382.6	381.9	383.1	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



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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°	10.9	11.2	11.4	11.4	11.4	11.4	11.0
90°	22.1	23.6	24.3	24.3	24.3	24.3	24.3
92.5°	55.1	48.9	44.4	43.7	41.4	42.0	40.8
95°	148.1	117.2	100.9	91.3	85.5	83.2	84.0
97.5°	368.5	288.8	235.6	200.4	182.3	171.5	165.3
100°	581.4	480.4	391.2	330.1	298.4	277.0	263.7
102.5°	797.7	723.8	629.3	562.9	508.8	482.1	464.2
105°	978.5	988.1	963.7	918.0	872.3	840.7	830.4
107.5°	965.2	1041.8	1077.5	1083.3	1080.7	1074.4	1060.6
110°	924.0	1018.2	1078.6	1110.3	1124.4	1131.0	1130.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	875.0	975.8	1045.1	1089.1	1112.6	1125.1	1129.1
115°	808.2	904.7	980.6	1032.9	1066.9	1086.0	1092.7
117.5°	754.0	841.6	912.8	966.1	1001.9	1022.1	1027.7
120°	725.8	803.8	870.9	922.5	957.1	978.5	985.8
122.5°	702.2	776.1	836.7	883.0	917.0	936.0	942.2
125°	671.2	736.0	791.3	834.1	862.0	880.4	886.4
127.5°	641.1	702.3	753.3	790.6	816.8	832.7	837.4
130°	621.1	679.3	727.9	764.0	789.1	803.8	809.7
132.5°	602.3	655.7	701.4	737.0	762.0	775.5	780.8
135°	572.5	621.1	662.3	694.1	718.4	731.6	734.6
137.5°	548.7	587.4	623.3	652.2	673.2	684.8	689.2
140°	533.5	567.3	599.7	623.3	642.4	653.6	658.0
142.5°	519.9	549.0	576.2	598.6	616.0	625.8	626.7
145°	502.5	525.4	546.7	564.4	576.9	584.3	586.4
147.5°	488.3	506.1	521.8	536.4	546.4	551.4	552.7
150°	478.9	494.4	507.7	518.7	527.5	532.0	532.7
152.5°	471.3	484.4	495.9	504.5	512.2	515.5	515.6
155°	459.0	470.0	478.2	486.3	491.4	494.4	492.9
157.5°	446.7	455.9	462.2	468.0	472.3	473.6	473.6
160°	438.4	446.5	451.7	456.9	460.5	461.2	461.2
162.5°	430.7	437.6	441.7	446.8	449.3	450.1	449.4
165°	419.2	424.4	427.3	430.3	433.2	433.2	432.5
167.5°	408.8	412.3	415.0	416.3	417.9	417.7	416.9
170°	402.3	405.2	406.7	407.5	409.6	408.9	407.5
172.5°	396.4	398.8	399.6	400.4	401.4	400.7	399.8
175°	389.7	390.5	391.2	391.2	392.0	391.2	389.7
177.5°	384.9	385.5	385.5	385.5	385.5	384.9	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1

(END OF REPORT)