

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: P331683-830

Luminaire Tested: **SA2XXRDIP-C675D530U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331683-830
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-C675D530U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

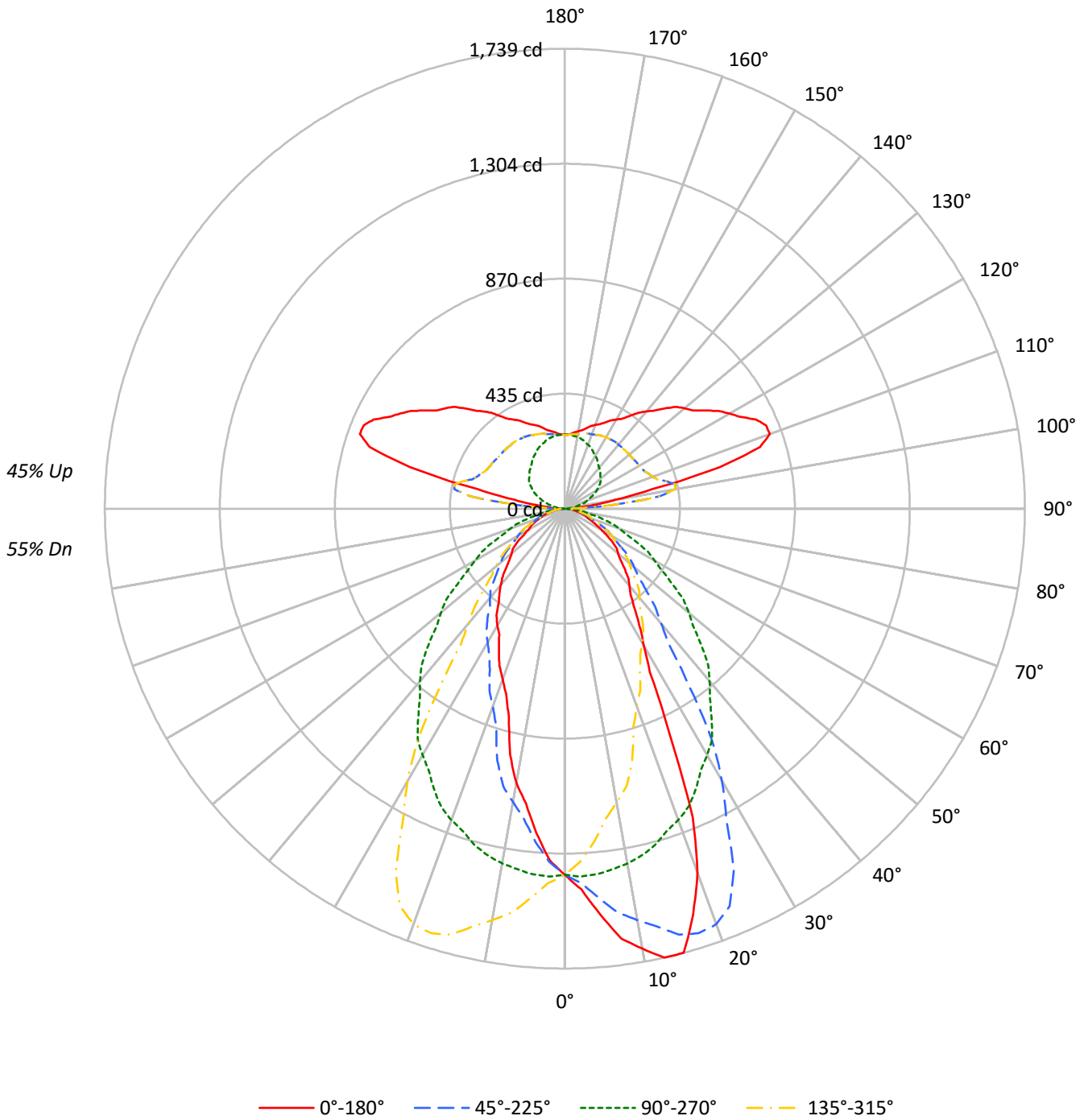
Lumens per Lamp: N/A
Luminaire Lumens: 4340.6 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 40.3
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	100	96	92	89	93	89	86	83	77	75	73	66	64	62	55	54	53	48				
2	92	85	79	74	85	79	74	70	68	65	62	59	56	54	50	48	46	42				
3	84	75	68	63	78	70	64	59	61	57	53	53	49	46	45	42	40	37				
4	78	67	60	54	72	63	56	51	55	50	46	48	44	41	41	38	36	32				
5	72	61	53	47	67	57	50	45	50	44	40	43	39	36	37	34	32	29				
6	66	55	47	42	62	52	45	40	45	40	36	40	35	32	34	31	28	26				
7	62	50	42	37	57	47	40	35	42	36	32	36	32	29	32	28	26	23				
8	57	46	38	33	54	43	36	32	38	33	29	34	29	26	29	26	23	21				
9	54	42	35	30	50	40	33	29	35	30	26	31	27	24	27	24	21	19				
10	50	39	32	27	47	37	30	26	33	28	24	29	25	22	25	22	20	18				

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	3.0
10°-20°	365.7	8.4
20°-30°	471.3	10.9
30°-40°	447.9	10.3
40°-50°	383.7	8.8
50°-60°	292.2	6.7
60°-70°	184.7	4.3
70°-80°	92.2	2.1
80°-90°	26.5	0.6
90°-100°	111.8	2.6
100°-110°	379.3	8.7
110°-120°	402.9	9.3
120°-130°	331.7	7.6
130°-140°	266.3	6.1
140°-150°	201.3	4.6
150°-160°	141.4	3.3
160°-170°	83.3	1.9
170°-180°	27.1	0.6
0°-30°	968.3	22.3
0°-40°	1416.2	32.6
0°-60°	2092.1	48.2
0°-90°	2395.5	55.2
90°-120°	893.9	20.6
90°-150°	1693.2	39.0
90°-180°	1945.0	44.8
0°-180°	4340.6	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°	18	1	18	1	18	10
95°	61	19	61	19	61	80
105°	606	66	606	66	606	586
115°	797	116	797	116	797	781
125°	647	161	647	161	647	584
135°	536	189	536	189	536	416
145°	428	216	428	216	428	272
155°	360	246	360	246	360	168
165°	316	268	316	268	316	90
175°	284	279	284	279	284	28
180°	280	280	280	280	280	



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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°	9.7	10.1	10.1	10.1	10.1	10.0	9.8	10.4	10.1	10.6	10.1
90°	17.7	17.7	17.7	17.7	17.7	17.2	16.1	17.2	17.7	18.3	17.7
92.5°	29.8	30.6	30.3	32.0	32.3	35.7	40.2	46.8	59.0	69.8	68.9
95°	61.3	60.7	62.4	66.6	73.6	85.5	108.0	140.8	184.4	210.8	186.5
97.5°	120.6	125.2	133.0	146.2	171.9	210.8	268.9	328.7	377.3	359.7	270.9
100°	192.5	202.1	217.7	240.8	285.4	350.4	424.1	490.8	502.0	424.6	292.4
102.5°	338.7	351.8	371.2	410.7	459.1	528.1	581.9	597.0	548.5	426.8	284.3
105°	605.8	613.3	636.4	669.8	703.0	720.9	713.8	653.1	541.3	398.3	268.2
107.5°	773.8	783.8	788.4	790.2	786.1	760.1	704.2	612.7	494.1	367.8	260.2
110°	824.5	825.1	820.3	810.0	786.9	742.8	674.0	577.9	464.4	353.2	258.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	823.7	820.8	811.6	794.6	762.4	711.9	638.4	546.0	443.7	343.7	259.0
115°	797.1	792.3	778.4	753.6	715.5	660.1	589.7	506.9	418.2	333.3	261.3
117.5°	749.7	745.6	730.9	704.8	665.9	614.0	550.1	477.4	402.1	328.2	265.1
120°	719.2	713.8	698.2	673.0	635.4	586.4	529.4	462.8	393.5	325.2	267.7
122.5°	687.4	682.9	669.0	644.1	610.4	566.2	512.3	451.2	386.2	323.5	270.7
125°	646.7	642.3	628.9	608.5	577.3	537.0	489.7	434.3	375.7	320.4	275.2
127.5°	611.0	607.5	595.9	576.7	549.6	512.4	467.8	417.6	366.1	318.6	279.8
130°	590.7	586.4	575.7	557.4	531.0	495.6	453.2	406.9	359.6	317.6	283.2
132.5°	569.7	565.8	555.9	537.6	511.7	478.4	439.4	396.6	354.4	317.3	286.7
135°	535.9	533.8	524.1	506.3	483.2	453.2	417.6	382.2	347.2	316.6	290.8
137.5°	502.8	499.5	491.1	475.8	454.8	428.5	400.4	370.7	342.1	316.5	294.5
140°	480.0	476.7	468.7	454.8	437.5	413.9	389.2	363.4	339.2	316.0	296.1
142.5°	457.2	456.6	449.4	436.7	420.4	400.6	379.3	357.3	336.2	316.0	297.5
145°	427.8	426.2	420.8	411.7	398.9	383.2	366.6	348.8	332.2	315.0	298.9
147.5°	403.2	402.3	398.6	391.3	380.7	369.3	356.3	342.3	328.1	313.0	299.3
150°	388.6	388.0	384.8	378.4	370.3	360.7	349.4	337.5	324.7	311.8	298.9
152.5°	376.2	376.1	373.7	368.1	361.7	353.4	343.8	332.8	321.7	309.6	298.0
155°	359.6	360.7	358.5	354.8	348.8	342.9	334.9	326.3	316.0	305.9	296.7
157.5°	345.5	345.5	344.6	341.4	337.2	332.6	325.8	318.7	310.8	302.0	294.3
160°	336.5	336.5	335.9	333.3	329.5	325.7	319.8	313.9	306.9	299.4	292.9
162.5°	327.9	328.3	327.8	325.9	322.2	319.3	314.2	309.2	303.5	297.3	291.6
165°	315.6	316.0	316.0	313.9	311.8	309.6	305.9	302.1	297.7	292.9	289.2
167.5°	304.2	304.8	304.9	303.7	302.7	300.8	298.2	295.3	292.2	289.2	286.7
170°	297.3	298.3	298.9	297.3	296.7	295.7	293.5	291.9	289.2	287.0	285.4
172.5°	291.6	292.3	292.8	292.1	291.5	290.9	289.2	288.0	286.2	284.5	283.7
175°	284.4	285.4	286.0	285.4	285.4	284.9	284.4	283.8	282.2	281.6	281.2
177.5°	279.9	280.8	281.3	281.3	281.3	281.3	280.8	280.8	279.9	279.5	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



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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°	9.4	9.0	8.6	7.8	8.0	8.2	9.7	11.3	10.1	9.3	8.8
90°	14.5	10.7	8.1	6.4	5.4	4.3	2.2	0.6	2.2	4.3	5.4
92.5°	53.6	36.6	24.4	19.3	15.7	13.3	9.4	6.6	9.4	13.3	15.7
95°	124.1	77.4	52.7	39.8	31.2	26.3	20.9	18.9	20.9	26.3	31.2
97.5°	167.3	102.2	71.1	56.5	46.6	39.2	33.6	30.6	33.6	39.2	46.6
100°	176.3	110.7	82.3	67.2	56.5	47.9	43.0	41.4	43.0	47.9	56.5
102.5°	176.7	118.5	92.1	77.1	65.9	57.3	52.5	51.3	52.5	57.3	65.9
105°	179.6	131.7	106.4	91.3	79.6	71.4	67.8	65.6	67.8	71.4	79.6
107.5°	186.9	145.2	120.7	105.6	93.9	86.4	82.8	81.1	82.8	86.4	93.9
110°	192.9	154.3	130.6	115.0	103.8	96.8	93.5	91.3	93.5	96.8	103.8



TEST NUMBER: P331683-830
 CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	199.4	162.9	140.1	124.0	113.2	106.6	103.0	100.9	103.0	106.6	113.2
115°	209.1	176.3	153.2	138.6	127.9	121.5	118.3	115.6	118.3	121.5	127.9
117.5°	219.4	188.7	167.3	152.2	141.9	136.2	133.0	130.8	133.0	136.2	141.9
120°	226.3	197.3	176.3	161.3	150.5	145.6	142.4	140.3	142.4	145.6	150.5
122.5°	232.3	205.5	185.8	170.3	159.6	154.3	151.1	149.3	151.1	154.3	159.6
125°	241.9	217.7	198.3	183.3	172.6	166.1	162.9	161.3	162.9	166.1	172.6
127.5°	250.8	229.1	210.3	194.8	184.5	177.4	172.9	170.7	172.9	177.4	184.5
130°	256.4	236.0	217.2	202.1	191.3	183.8	178.4	176.3	178.4	183.8	191.3
132.5°	262.0	242.0	224.0	209.0	197.8	189.8	184.1	181.4	184.1	189.8	197.8
135°	269.3	250.5	233.3	218.2	205.9	197.8	191.3	189.2	191.3	197.8	205.9
137.5°	274.8	257.4	240.3	226.4	214.1	205.6	199.1	196.5	199.1	205.6	214.1
140°	277.9	261.3	245.2	231.1	219.3	210.8	204.2	202.1	204.2	210.8	219.3
142.5°	280.5	264.3	248.5	235.4	224.0	215.5	209.4	207.7	209.4	215.5	224.0
145°	283.8	268.7	254.2	242.4	231.7	223.6	218.2	216.1	218.2	223.6	231.7
147.5°	285.7	272.4	258.7	248.3	239.3	231.9	226.7	225.1	226.7	231.9	239.3
150°	286.5	274.1	261.7	252.1	244.0	237.0	232.7	231.1	232.7	237.0	244.0
152.5°	286.9	275.9	264.8	256.0	248.4	242.2	237.9	237.1	237.9	242.2	248.4
155°	287.6	278.4	269.3	261.3	255.3	249.4	246.2	245.6	246.2	249.4	255.3
157.5°	287.6	280.2	272.5	265.8	261.0	255.9	253.3	252.7	253.3	255.9	261.0
160°	287.6	281.2	274.7	268.7	264.5	260.1	258.0	257.5	258.0	260.1	264.5
162.5°	287.1	281.5	276.0	271.4	267.5	264.0	261.8	262.2	261.8	264.0	267.5
165°	286.0	282.2	277.4	274.1	271.5	268.2	267.1	267.7	267.1	268.2	271.5
167.5°	285.2	282.1	278.5	276.5	274.6	272.5	271.5	272.2	271.5	272.5	274.6
170°	284.4	281.6	279.0	277.4	276.3	274.7	274.1	275.2	274.1	274.7	276.3
172.5°	283.0	281.3	279.4	278.2	277.6	276.0	276.3	276.9	276.3	276.0	277.6
175°	281.6	280.6	279.5	279.0	279.0	277.9	278.4	279.0	278.4	277.9	279.0
177.5°	280.8	279.9	279.5	279.5	279.5	278.6	279.1	279.9	279.1	278.6	279.5
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331683-830
 CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-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°	8.6	8.6	8.3	9.0	9.7	9.4	9.3	8.9	8.6	8.9	8.6
90°	6.4	8.1	10.7	14.5	17.7	18.3	17.7	17.2	16.1	17.2	17.7
92.5°	19.3	24.4	36.6	53.6	68.9	69.8	59.0	46.8	40.2	35.7	32.3
95°	39.8	52.7	77.4	124.1	186.5	210.8	184.4	140.8	108.0	85.5	73.6
97.5°	56.5	71.1	102.2	167.3	270.9	359.7	377.3	328.7	268.9	210.8	171.9
100°	67.2	82.3	110.7	176.3	292.4	424.6	502.0	490.8	424.1	350.4	285.4
102.5°	77.1	92.1	118.5	176.7	284.3	426.8	548.5	597.0	581.9	528.1	459.1
105°	91.3	106.4	131.7	179.6	268.2	398.3	541.3	653.1	713.8	720.9	703.0
107.5°	105.6	120.7	145.2	186.9	260.2	367.8	494.1	612.7	704.2	760.1	786.1
110°	115.0	130.6	154.3	192.9	258.5	353.2	464.4	577.9	674.0	742.8	786.9



TEST NUMBER: P331683-830

CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.0	140.1	162.9	199.4	259.0	343.7	443.7	546.0	638.4	711.9	762.4
115°	138.6	153.2	176.3	209.1	261.3	333.3	418.2	506.9	589.7	660.1	715.5
117.5°	152.2	167.3	188.7	219.4	265.1	328.2	402.1	477.4	550.1	614.0	665.9
120°	161.3	176.3	197.3	226.3	267.7	325.2	393.5	462.8	529.4	586.4	635.4
122.5°	170.3	185.8	205.5	232.3	270.7	323.5	386.2	451.2	512.3	566.2	610.4
125°	183.3	198.3	217.7	241.9	275.2	320.4	375.7	434.3	489.7	537.0	577.3
127.5°	194.8	210.3	229.1	250.8	279.8	318.6	366.1	417.6	467.8	512.4	549.6
130°	202.1	217.2	236.0	256.4	283.2	317.6	359.6	406.9	453.2	495.6	531.0
132.5°	209.0	224.0	242.0	262.0	286.7	317.3	354.4	396.6	439.4	478.4	511.7
135°	218.2	233.3	250.5	269.3	290.8	316.6	347.2	382.2	417.6	453.2	483.2
137.5°	226.4	240.3	257.4	274.8	294.5	316.5	342.1	370.7	400.4	428.5	454.8
140°	231.1	245.2	261.3	277.9	296.1	316.0	339.2	363.4	389.2	413.9	437.5
142.5°	235.4	248.5	264.3	280.5	297.5	316.0	336.2	357.3	379.3	400.6	420.4
145°	242.4	254.2	268.7	283.8	298.9	315.0	332.2	348.8	366.6	383.2	398.9
147.5°	248.3	258.7	272.4	285.7	299.3	313.0	328.1	342.3	356.3	369.3	380.7
150°	252.1	261.7	274.1	286.5	298.9	311.8	324.7	337.5	349.4	360.7	370.3
152.5°	256.0	264.8	275.9	286.9	298.0	309.6	321.7	332.8	343.8	353.4	361.7
155°	261.3	269.3	278.4	287.6	296.7	305.9	316.0	326.3	334.9	342.9	348.8
157.5°	265.8	272.5	280.2	287.6	294.3	302.0	310.8	318.7	325.8	332.6	337.2
160°	268.7	274.7	281.2	287.6	292.9	299.4	306.9	313.9	319.8	325.7	329.5
162.5°	271.4	276.0	281.5	287.1	291.6	297.3	303.5	309.2	314.2	319.3	322.2
165°	274.1	277.4	282.2	286.0	289.2	292.9	297.7	302.1	305.9	309.6	311.8
167.5°	276.5	278.5	282.1	285.2	286.7	289.2	292.2	295.3	298.2	300.8	302.7
170°	277.4	279.0	281.6	284.4	285.4	287.0	289.2	291.9	293.5	295.7	296.7
172.5°	278.2	279.4	281.3	283.0	283.7	284.5	286.2	288.0	289.2	290.9	291.5
175°	279.0	279.5	280.6	281.6	281.2	281.6	282.2	283.8	284.4	284.9	285.4
177.5°	279.5	279.5	279.9	280.8	279.9	279.5	279.9	280.8	280.8	281.3	281.3
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331683-830

CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-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°	8.6	8.2	8.6	8.2	8.6	8.2	8.6	8.6	8.9	8.6	8.9
90°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.2	16.1	17.2
92.5°	32.0	30.3	30.6	29.8	30.6	30.3	32.0	32.3	35.7	40.2	46.8
95°	66.6	62.4	60.7	61.3	60.7	62.4	66.6	73.6	85.5	108.0	140.8
97.5°	146.2	133.0	125.2	120.6	125.2	133.0	146.2	171.9	210.8	268.9	328.7
100°	240.8	217.7	202.1	192.5	202.1	217.7	240.8	285.4	350.4	424.1	490.8
102.5°	410.7	371.2	351.8	338.7	351.8	371.2	410.7	459.1	528.1	581.9	597.0
105°	669.8	636.4	613.3	605.8	613.3	636.4	669.8	703.0	720.9	713.8	653.1
107.5°	790.2	788.4	783.8	773.8	783.8	788.4	790.2	786.1	760.1	704.2	612.7
110°	810.0	820.3	825.1	824.5	825.1	820.3	810.0	786.9	742.8	674.0	577.9



TEST NUMBER: P331683-830
 CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	794.6	811.6	820.8	823.7	820.8	811.6	794.6	762.4	711.9	638.4	546.0
115°	753.6	778.4	792.3	797.1	792.3	778.4	753.6	715.5	660.1	589.7	506.9
117.5°	704.8	730.9	745.6	749.7	745.6	730.9	704.8	665.9	614.0	550.1	477.4
120°	673.0	698.2	713.8	719.2	713.8	698.2	673.0	635.4	586.4	529.4	462.8
122.5°	644.1	669.0	682.9	687.4	682.9	669.0	644.1	610.4	566.2	512.3	451.2
125°	608.5	628.9	642.3	646.7	642.3	628.9	608.5	577.3	537.0	489.7	434.3
127.5°	576.7	595.9	607.5	611.0	607.5	595.9	576.7	549.6	512.4	467.8	417.6
130°	557.4	575.7	586.4	590.7	586.4	575.7	557.4	531.0	495.6	453.2	406.9
132.5°	537.6	555.9	565.8	569.7	565.8	555.9	537.6	511.7	478.4	439.4	396.6
135°	506.3	524.1	533.8	535.9	533.8	524.1	506.3	483.2	453.2	417.6	382.2
137.5°	475.8	491.1	499.5	502.8	499.5	491.1	475.8	454.8	428.5	400.4	370.7
140°	454.8	468.7	476.7	480.0	476.7	468.7	454.8	437.5	413.9	389.2	363.4
142.5°	436.7	449.4	456.6	457.2	456.6	449.4	436.7	420.4	400.6	379.3	357.3
145°	411.7	420.8	426.2	427.8	426.2	420.8	411.7	398.9	383.2	366.6	348.8
147.5°	391.3	398.6	402.3	403.2	402.3	398.6	391.3	380.7	369.3	356.3	342.3
150°	378.4	384.8	388.0	388.6	388.0	384.8	378.4	370.3	360.7	349.4	337.5
152.5°	368.1	373.7	376.1	376.2	376.1	373.7	368.1	361.7	353.4	343.8	332.8
155°	354.8	358.5	360.7	359.6	360.7	358.5	354.8	348.8	342.9	334.9	326.3
157.5°	341.4	344.6	345.5	345.5	345.5	344.6	341.4	337.2	332.6	325.8	318.7
160°	333.3	335.9	336.5	336.5	336.5	335.9	333.3	329.5	325.7	319.8	313.9
162.5°	325.9	327.8	328.3	327.9	328.3	327.8	325.9	322.2	319.3	314.2	309.2
165°	313.9	316.0	316.0	315.6	316.0	316.0	313.9	311.8	309.6	305.9	302.1
167.5°	303.7	304.9	304.8	304.2	304.8	304.9	303.7	302.7	300.8	298.2	295.3
170°	297.3	298.9	298.3	297.3	298.3	298.9	297.3	296.7	295.7	293.5	291.9
172.5°	292.1	292.8	292.3	291.6	292.3	292.8	292.1	291.5	290.9	289.2	288.0
175°	285.4	286.0	285.4	284.4	285.4	286.0	285.4	285.4	284.9	284.4	283.8
177.5°	281.3	281.3	280.8	279.9	280.8	281.3	281.3	281.3	281.3	280.8	280.8
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331683-830

CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-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°	9.3	9.4	9.7	9.0	8.3	8.6	8.6	8.8	9.3	10.1	11.3
90°	17.7	18.3	17.7	14.5	10.7	8.1	6.4	5.4	4.3	2.2	0.6
92.5°	59.0	69.8	68.9	53.6	36.6	24.4	19.3	15.7	13.3	9.4	6.6
95°	184.4	210.8	186.5	124.1	77.4	52.7	39.8	31.2	26.3	20.9	18.9
97.5°	377.3	359.7	270.9	167.3	102.2	71.1	56.5	46.6	39.2	33.6	30.6
100°	502.0	424.6	292.4	176.3	110.7	82.3	67.2	56.5	47.9	43.0	41.4
102.5°	548.5	426.8	284.3	176.7	118.5	92.1	77.1	65.9	57.3	52.5	51.3
105°	541.3	398.3	268.2	179.6	131.7	106.4	91.3	79.6	71.4	67.8	65.6
107.5°	494.1	367.8	260.2	186.9	145.2	120.7	105.6	93.9	86.4	82.8	81.1
110°	464.4	353.2	258.5	192.9	154.3	130.6	115.0	103.8	96.8	93.5	91.3



TEST NUMBER: P331683-830

CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	443.7	343.7	259.0	199.4	162.9	140.1	124.0	113.2	106.6	103.0	100.9
115°	418.2	333.3	261.3	209.1	176.3	153.2	138.6	127.9	121.5	118.3	115.6
117.5°	402.1	328.2	265.1	219.4	188.7	167.3	152.2	141.9	136.2	133.0	130.8
120°	393.5	325.2	267.7	226.3	197.3	176.3	161.3	150.5	145.6	142.4	140.3
122.5°	386.2	323.5	270.7	232.3	205.5	185.8	170.3	159.6	154.3	151.1	149.3
125°	375.7	320.4	275.2	241.9	217.7	198.3	183.3	172.6	166.1	162.9	161.3
127.5°	366.1	318.6	279.8	250.8	229.1	210.3	194.8	184.5	177.4	172.9	170.7
130°	359.6	317.6	283.2	256.4	236.0	217.2	202.1	191.3	183.8	178.4	176.3
132.5°	354.4	317.3	286.7	262.0	242.0	224.0	209.0	197.8	189.8	184.1	181.4
135°	347.2	316.6	290.8	269.3	250.5	233.3	218.2	205.9	197.8	191.3	189.2
137.5°	342.1	316.5	294.5	274.8	257.4	240.3	226.4	214.1	205.6	199.1	196.5
140°	339.2	316.0	296.1	277.9	261.3	245.2	231.1	219.3	210.8	204.2	202.1
142.5°	336.2	316.0	297.5	280.5	264.3	248.5	235.4	224.0	215.5	209.4	207.7
145°	332.2	315.0	298.9	283.8	268.7	254.2	242.4	231.7	223.6	218.2	216.1
147.5°	328.1	313.0	299.3	285.7	272.4	258.7	248.3	239.3	231.9	226.7	225.1
150°	324.7	311.8	298.9	286.5	274.1	261.7	252.1	244.0	237.0	232.7	231.1
152.5°	321.7	309.6	298.0	286.9	275.9	264.8	256.0	248.4	242.2	237.9	237.1
155°	316.0	305.9	296.7	287.6	278.4	269.3	261.3	255.3	249.4	246.2	245.6
157.5°	310.8	302.0	294.3	287.6	280.2	272.5	265.8	261.0	255.9	253.3	252.7
160°	306.9	299.4	292.9	287.6	281.2	274.7	268.7	264.5	260.1	258.0	257.5
162.5°	303.5	297.3	291.6	287.1	281.5	276.0	271.4	267.5	264.0	261.8	262.2
165°	297.7	292.9	289.2	286.0	282.2	277.4	274.1	271.5	268.2	267.1	267.7
167.5°	292.2	289.2	286.7	285.2	282.1	278.5	276.5	274.6	272.5	271.5	272.2
170°	289.2	287.0	285.4	284.4	281.6	279.0	277.4	276.3	274.7	274.1	275.2
172.5°	286.2	284.5	283.7	283.0	281.3	279.4	278.2	277.6	276.0	276.3	276.9
175°	282.2	281.6	281.2	281.6	280.6	279.5	279.0	279.0	277.9	278.4	279.0
177.5°	279.9	279.5	279.9	280.8	279.9	279.5	279.5	279.5	278.6	279.1	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331683-830

CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-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°	9.7	8.2	8.0	7.8	8.6	9.0	9.4	10.1	10.6	10.1	10.4
90°	2.2	4.3	5.4	6.4	8.1	10.7	14.5	17.7	18.3	17.7	17.2
92.5°	9.4	13.3	15.7	19.3	24.4	36.6	53.6	68.9	69.8	59.0	46.8
95°	20.9	26.3	31.2	39.8	52.7	77.4	124.1	186.5	210.8	184.4	140.8
97.5°	33.6	39.2	46.6	56.5	71.1	102.2	167.3	270.9	359.7	377.3	328.7
100°	43.0	47.9	56.5	67.2	82.3	110.7	176.3	292.4	424.6	502.0	490.8
102.5°	52.5	57.3	65.9	77.1	92.1	118.5	176.7	284.3	426.8	548.5	597.0
105°	67.8	71.4	79.6	91.3	106.4	131.7	179.6	268.2	398.3	541.3	653.1
107.5°	82.8	86.4	93.9	105.6	120.7	145.2	186.9	260.2	367.8	494.1	612.7
110°	93.5	96.8	103.8	115.0	130.6	154.3	192.9	258.5	353.2	464.4	577.9



TEST NUMBER: P331683-830
 CATALOG NUMBER: SA2XXRDIP-C675D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	103.0	106.6	113.2	124.0	140.1	162.9	199.4	259.0	343.7	443.7	546.0
115°	118.3	121.5	127.9	138.6	153.2	176.3	209.1	261.3	333.3	418.2	506.9
117.5°	133.0	136.2	141.9	152.2	167.3	188.7	219.4	265.1	328.2	402.1	477.4
120°	142.4	145.6	150.5	161.3	176.3	197.3	226.3	267.7	325.2	393.5	462.8
122.5°	151.1	154.3	159.6	170.3	185.8	205.5	232.3	270.7	323.5	386.2	451.2
125°	162.9	166.1	172.6	183.3	198.3	217.7	241.9	275.2	320.4	375.7	434.3
127.5°	172.9	177.4	184.5	194.8	210.3	229.1	250.8	279.8	318.6	366.1	417.6
130°	178.4	183.8	191.3	202.1	217.2	236.0	256.4	283.2	317.6	359.6	406.9
132.5°	184.1	189.8	197.8	209.0	224.0	242.0	262.0	286.7	317.3	354.4	396.6
135°	191.3	197.8	205.9	218.2	233.3	250.5	269.3	290.8	316.6	347.2	382.2
137.5°	199.1	205.6	214.1	226.4	240.3	257.4	274.8	294.5	316.5	342.1	370.7
140°	204.2	210.8	219.3	231.1	245.2	261.3	277.9	296.1	316.0	339.2	363.4
142.5°	209.4	215.5	224.0	235.4	248.5	264.3	280.5	297.5	316.0	336.2	357.3
145°	218.2	223.6	231.7	242.4	254.2	268.7	283.8	298.9	315.0	332.2	348.8
147.5°	226.7	231.9	239.3	248.3	258.7	272.4	285.7	299.3	313.0	328.1	342.3
150°	232.7	237.0	244.0	252.1	261.7	274.1	286.5	298.9	311.8	324.7	337.5
152.5°	237.9	242.2	248.4	256.0	264.8	275.9	286.9	298.0	309.6	321.7	332.8
155°	246.2	249.4	255.3	261.3	269.3	278.4	287.6	296.7	305.9	316.0	326.3
157.5°	253.3	255.9	261.0	265.8	272.5	280.2	287.6	294.3	302.0	310.8	318.7
160°	258.0	260.1	264.5	268.7	274.7	281.2	287.6	292.9	299.4	306.9	313.9
162.5°	261.8	264.0	267.5	271.4	276.0	281.5	287.1	291.6	297.3	303.5	309.2
165°	267.1	268.2	271.5	274.1	277.4	282.2	286.0	289.2	292.9	297.7	302.1
167.5°	271.5	272.5	274.6	276.5	278.5	282.1	285.2	286.7	289.2	292.2	295.3
170°	274.1	274.7	276.3	277.4	279.0	281.6	284.4	285.4	287.0	289.2	291.9
172.5°	276.3	276.0	277.6	278.2	279.4	281.3	283.0	283.7	284.5	286.2	288.0
175°	278.4	277.9	279.0	279.0	279.5	280.6	281.6	281.2	281.6	282.2	283.8
177.5°	279.1	278.6	279.5	279.5	279.5	279.9	280.8	279.9	279.5	279.9	280.8
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331683-830
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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°	9.8	10.0	10.1	10.1	10.1	10.1	9.7
90°	16.1	17.2	17.7	17.7	17.7	17.7	17.7
92.5°	40.2	35.7	32.3	32.0	30.3	30.6	29.8
95°	108.0	85.5	73.6	66.6	62.4	60.7	61.3
97.5°	268.9	210.8	171.9	146.2	133.0	125.2	120.6
100°	424.1	350.4	285.4	240.8	217.7	202.1	192.5
102.5°	581.9	528.1	459.1	410.7	371.2	351.8	338.7
105°	713.8	720.9	703.0	669.8	636.4	613.3	605.8
107.5°	704.2	760.1	786.1	790.2	788.4	783.8	773.8
110°	674.0	742.8	786.9	810.0	820.3	825.1	824.5



TEST NUMBER: P331683-830
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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	638.4	711.9	762.4	794.6	811.6	820.8	823.7
115°	589.7	660.1	715.5	753.6	778.4	792.3	797.1
117.5°	550.1	614.0	665.9	704.8	730.9	745.6	749.7
120°	529.4	586.4	635.4	673.0	698.2	713.8	719.2
122.5°	512.3	566.2	610.4	644.1	669.0	682.9	687.4
125°	489.7	537.0	577.3	608.5	628.9	642.3	646.7
127.5°	467.8	512.4	549.6	576.7	595.9	607.5	611.0
130°	453.2	495.6	531.0	557.4	575.7	586.4	590.7
132.5°	439.4	478.4	511.7	537.6	555.9	565.8	569.7
135°	417.6	453.2	483.2	506.3	524.1	533.8	535.9
137.5°	400.4	428.5	454.8	475.8	491.1	499.5	502.8
140°	389.2	413.9	437.5	454.8	468.7	476.7	480.0
142.5°	379.3	400.6	420.4	436.7	449.4	456.6	457.2
145°	366.6	383.2	398.9	411.7	420.8	426.2	427.8
147.5°	356.3	369.3	380.7	391.3	398.6	402.3	403.2
150°	349.4	360.7	370.3	378.4	384.8	388.0	388.6
152.5°	343.8	353.4	361.7	368.1	373.7	376.1	376.2
155°	334.9	342.9	348.8	354.8	358.5	360.7	359.6
157.5°	325.8	332.6	337.2	341.4	344.6	345.5	345.5
160°	319.8	325.7	329.5	333.3	335.9	336.5	336.5
162.5°	314.2	319.3	322.2	325.9	327.8	328.3	327.9
165°	305.9	309.6	311.8	313.9	316.0	316.0	315.6
167.5°	298.2	300.8	302.7	303.7	304.9	304.8	304.2
170°	293.5	295.7	296.7	297.3	298.9	298.3	297.3
172.5°	289.2	290.9	291.5	292.1	292.8	292.3	291.6
175°	284.4	284.9	285.4	285.4	286.0	285.4	284.4
177.5°	280.8	281.3	281.3	281.3	281.3	280.8	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5

(END OF REPORT)