

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1029657

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029657
REPORT IS A COMBINATION OF REPORTS P986559 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

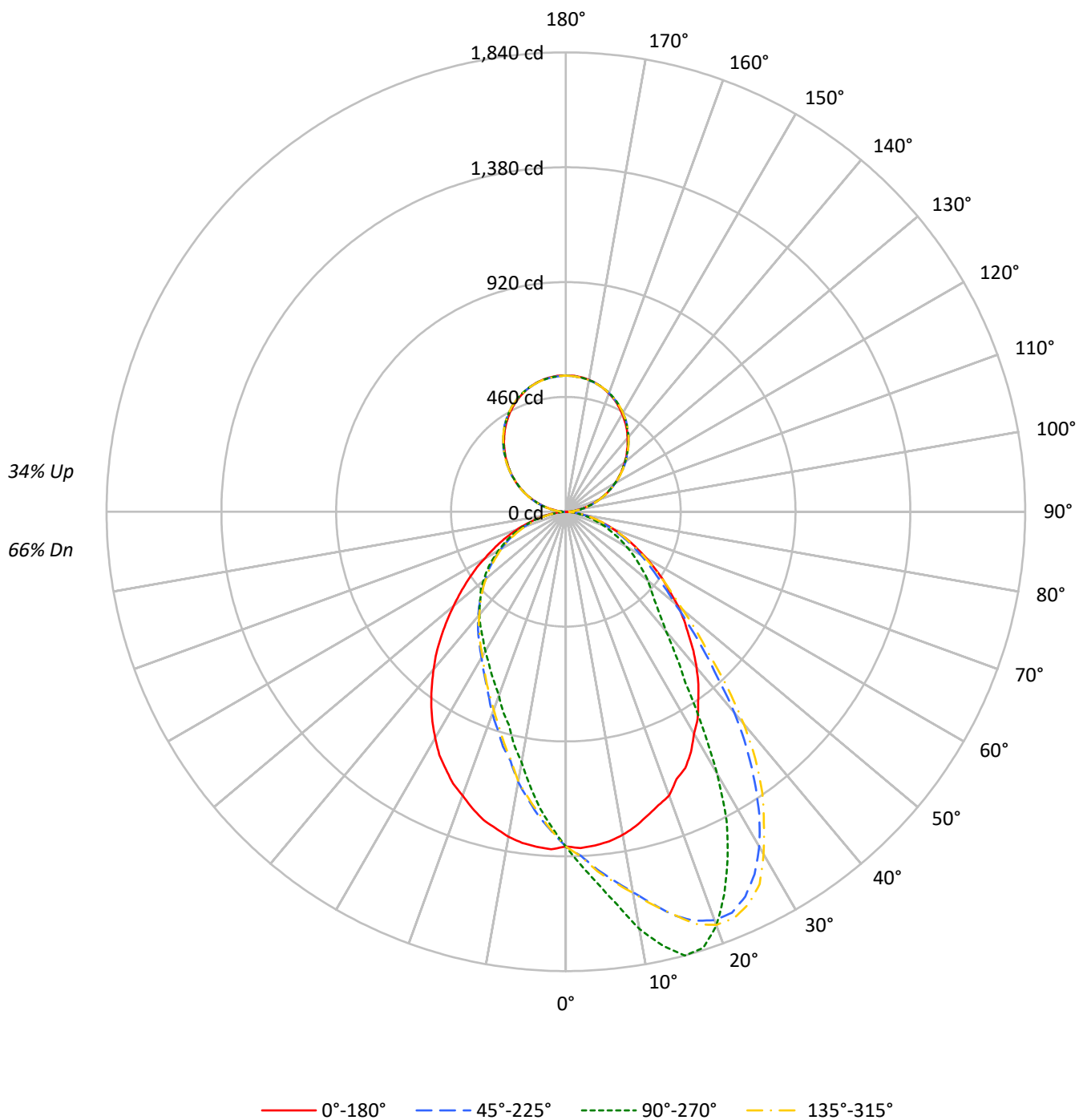
Lumens per Lamp: N/A
Luminaire Lumens: 4484.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.1
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66		
1	102	98	94	91	96	92	89	86	82	79	77	72	71	69	64	62	61	57		
2	93	86	80	75	88	81	76	72	73	68	65	64	61	59	57	54	52	49		
3	86	76	69	63	80	72	66	61	65	60	55	57	54	50	51	48	45	42		
4	79	68	60	54	74	65	58	52	58	52	48	52	47	44	46	43	40	37		
5	73	61	53	47	68	58	51	45	52	46	42	47	42	38	42	38	35	32		
6	67	55	47	41	63	52	45	40	47	41	37	43	38	34	38	34	31	29		
7	62	50	42	37	59	48	41	35	43	37	33	39	34	30	35	31	28	26		
8	58	46	38	33	55	44	37	32	40	34	30	36	31	27	32	28	25	23		
9	54	42	35	30	51	40	33	29	37	31	27	33	28	25	30	26	23	21		
10	51	39	32	27	48	37	30	26	34	28	24	31	26	23	28	24	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21222	21222	21222	21222
5°	21273	22627	21355	18003
10°	21026	24702	21159	14843
15°	20516	26055	20801	12503
20°	20196	24464	20196	10867
25°	19552	21017	19642	9718
30°	18494	16522	18847	8802
35°	17556	11424	17848	8053
40°	16477	8626	16665	7457
45°	15146	7088	15395	6812
50°	13997	6221	14023	6237
55°	12686	5302	12769	5611
60°	11288	4428	11446	4896
65°	10039	3601	10220	4182
70°	8791	2825	9017	3372
75°	7379	2052	7669	2446
80°	5756	1299	6171	1451
85°	3786	654	4082	484

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 21938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	2.8
10°-20°	371.7	8.3
20°-30°	539.4	12.0
30°-40°	568.7	12.7
40°-50°	503.2	11.2
50°-60°	401.8	9.0
60°-70°	272.9	6.1
70°-80°	139.6	3.1
80°-90°	34.5	0.8
90°-100°	33.7	0.8
100°-110°	107.2	2.4
110°-120°	183.5	4.1
120°-130°	241.3	5.4
130°-140°	270.9	6.0
140°-150°	265.6	5.9
150°-160°	222.8	5.0
160°-170°	147.8	3.3
170°-180°	51.6	1.2
0°-30°	1038.8	23.2
0°-40°	1607.5	35.8
0°-60°	2512.4	56.0
0°-90°	2959.6	66.0
90°-120°	324.4	7.2
90°-150°	1102.2	24.6
90°-180°	1524.0	34.0
0°-180°	4484.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1342	1497	1347	1191	1342	127
15°	1260	1840	1278	883	1260	356
25°	1132	1533	1138	709	1132	518
35°	924	835	940	588	924	578
45°	694	503	705	483	694	538
55°	476	354	479	374	476	425
65°	282	217	288	252	282	281
75°	132	107	137	128	132	142
85°	27	28	29	21	27	31
90°	0	16	0	16	0	3
95°	24	28	24	28	24	27
105°	99	102	99	102	99	104
115°	184	184	184	184	184	182
125°	268	269	268	269	268	239
135°	346	351	346	351	346	268
145°	421	425	421	425	421	263
155°	481	484	481	484	481	221
165°	523	524	523	524	523	148
175°	544	542	544	542	544	52
180°	545	545	545	545	545	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1347.9	1351.0	1356.2	1357.2	1367.5	1375.7	1385.0	1385.0	1388.1	1387.1	1378.8
5°	1341.7	1351.0	1364.4	1375.7	1394.3	1402.5	1414.9	1424.2	1432.4	1438.6	1437.6
7.5°	1331.4	1347.9	1367.5	1389.1	1413.9	1428.3	1445.8	1462.3	1473.6	1483.9	1491.2
10°	1313.9	1341.7	1368.5	1397.4	1429.3	1448.9	1469.5	1491.2	1508.7	1528.3	1546.8
12.5°	1290.2	1330.4	1363.4	1401.5	1440.7	1462.3	1495.3	1511.8	1545.8	1595.2	1608.6
15°	1260.3	1314.9	1345.9	1394.3	1445.8	1463.3	1508.7	1535.5	1605.5	1636.5	1673.6
17.5°	1232.5	1293.3	1334.5	1390.2	1440.7	1474.7	1519.0	1573.6	1632.3	1676.7	1717.9
20°	1209.8	1268.6	1318.0	1379.9	1443.8	1487.0	1533.4	1599.4	1663.3	1708.6	1740.5
22.5°	1158.3	1233.5	1291.2	1360.3	1437.6	1497.3	1541.7	1613.8	1682.8	1710.7	1738.5
25°	1132.5	1197.5	1264.4	1342.8	1433.4	1504.6	1542.7	1623.1	1683.9	1694.2	1700.4
27.5°	1085.1	1158.3	1236.6	1326.3	1432.4	1492.2	1540.6	1613.8	1662.2	1655.0	1636.5
30°	1026.4	1116.1	1202.6	1299.5	1418.0	1482.9	1528.3	1595.2	1620.0	1582.9	1549.9
32.5°	983.1	1067.6	1163.5	1275.8	1401.5	1463.3	1507.6	1560.2	1565.4	1498.4	1442.7
35°	924.4	1018.2	1126.4	1244.9	1373.7	1429.3	1470.5	1502.5	1477.8	1384.0	1318.0
37.5°	871.8	964.6	1080.0	1200.6	1335.6	1390.2	1423.1	1428.3	1367.5	1285.1	1188.2
40°	814.1	909.9	1030.5	1157.3	1293.3	1340.7	1361.3	1345.9	1258.3	1162.4	1050.1
42.5°	756.4	851.2	981.1	1110.9	1239.7	1279.9	1288.1	1245.9	1138.7	1026.4	896.6
45°	693.5	792.5	922.3	1053.2	1177.9	1200.6	1201.6	1140.8	1014.0	896.6	776.0
47.5°	642.0	733.7	862.5	993.4	1098.5	1114.0	1107.8	1037.7	899.6	767.7	662.6
50°	585.3	672.9	800.7	929.5	1019.2	1023.3	1007.8	907.9	772.9	652.3	568.8
52.5°	524.5	613.2	730.6	854.3	934.7	928.5	898.6	791.4	664.7	564.7	500.8
55°	476.1	554.4	664.7	785.3	841.9	824.4	791.4	682.2	582.2	497.7	442.1
57.5°	422.5	491.6	599.8	704.9	737.9	721.4	688.4	586.4	493.6	429.7	392.6
60°	372.0	434.9	529.7	617.3	643.0	625.5	587.4	495.7	428.7	375.1	347.3
62.5°	325.6	380.3	459.6	540.0	550.3	532.8	499.8	425.6	367.9	325.6	305.0
65°	282.4	333.9	397.8	458.6	467.9	449.3	415.3	361.7	313.3	286.5	266.9
67.5°	240.1	281.3	338.0	382.3	387.5	370.0	342.1	298.9	269.0	240.1	225.7
70°	203.0	233.9	278.2	314.3	316.4	299.9	285.5	246.3	223.6	203.0	191.7
72.5°	166.9	188.6	222.6	249.4	250.4	240.1	226.7	202.0	182.4	168.0	156.6
75°	131.9	150.5	171.1	194.8	193.7	185.5	175.2	159.7	143.2	134.0	128.8
77.5°	101.0	112.3	128.8	144.3	144.3	140.2	134.0	122.6	112.3	103.1	97.9
80°	72.1	79.3	92.7	97.9	100.0	98.9	93.8	85.5	81.4	74.2	72.1
82.5°	46.4	51.5	57.7	62.9	66.0	63.9	62.9	58.7	52.6	50.5	48.4
85°	26.8	28.9	31.9	35.0	36.1	35.0	37.1	34.0	30.9	30.9	29.9
87.5°	11.3	12.4	14.4	14.4	15.5	15.5	14.4	15.5	15.5	14.4	13.4
90°	0.5	1.7	2.9	4.2	5.4	6.0	7.1	9.4	11.6	13.9	16.1
92.5°	10.1	10.9	11.7	12.6	13.4	13.8	13.9	14.0	14.1	14.2	14.3
95°	23.9	24.9	25.9	27.0	28.0	28.5	28.6	28.8	29.0	29.2	29.4
97.5°	40.0	40.9	41.9	42.8	43.7	44.2	44.4	44.8	45.2	45.6	46.0
100°	58.4	59.2	60.0	60.9	61.7	62.1	62.3	62.6	62.9	63.2	63.5
102.5°	77.8	78.4	79.0	79.6	80.2	80.5	80.7	81.1	81.6	82.0	82.4
105°	98.9	99.2	99.5	99.8	100.1	100.3	100.4	100.6	100.8	101.0	101.2
107.5°	120.1	120.5	120.9	121.3	121.7	121.9	121.9	121.9	121.9	121.9	121.9
110°	140.3	140.9	141.5	142.2	142.8	143.1	143.1	143.1	143.1	143.1	143.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	162.4	163.0	163.6	164.3	164.9	165.2	165.1	165.0	164.9	164.8	164.7
115°	184.1	184.7	185.3	185.9	186.5	186.8	186.7	186.5	186.3	186.1	185.9
117.5°	205.7	206.5	207.3	208.2	209.0	209.4	209.1	208.6	208.1	207.6	207.1
120°	227.3	228.1	228.9	229.8	230.6	231.0	230.6	229.8	228.9	228.1	227.3
122.5°	247.1	248.1	249.1	250.2	251.2	251.7	251.4	250.9	250.4	249.9	249.4
125°	267.8	268.7	269.6	270.5	271.4	271.9	271.8	271.5	271.2	270.9	270.6
127.5°	288.0	289.1	290.3	291.4	292.5	293.1	292.9	292.5	292.1	291.7	291.3
130°	306.9	308.2	309.6	310.9	312.2	312.9	312.8	312.6	312.4	312.2	312.0
132.5°	328.1	329.1	330.1	331.2	332.2	332.7	332.7	332.8	332.9	333.0	333.1
135°	346.5	347.6	348.7	349.8	350.9	351.5	351.6	351.8	352.1	352.3	352.5
137.5°	366.7	367.6	368.6	369.5	370.4	370.9	371.0	371.2	371.4	371.6	371.8
140°	384.7	385.6	386.5	387.4	388.3	388.8	389.1	389.6	390.1	390.6	391.1
142.5°	403.1	404.0	404.9	405.8	406.7	407.2	407.4	407.7	408.0	408.3	408.6
145°	420.6	421.3	422.0	422.7	423.4	423.8	424.1	424.7	425.3	425.9	426.5
147.5°	436.2	437.1	438.1	439.0	439.9	440.4	440.6	441.0	441.4	441.8	442.2
150°	452.3	452.9	453.5	454.2	454.8	455.1	455.3	455.7	456.1	456.5	456.9
152.5°	466.6	467.2	467.8	468.4	469.0	469.3	469.6	470.1	470.6	471.1	471.6
155°	480.8	481.1	481.4	481.7	482.0	482.2	482.4	482.7	483.0	483.3	483.6
157.5°	493.3	493.5	493.7	493.9	494.1	494.2	494.3	494.5	494.7	494.9	495.1
160°	504.3	504.5	504.7	504.9	505.1	505.2	505.3	505.4	505.5	505.6	505.7
162.5°	514.4	514.4	514.4	514.4	514.4	514.4	514.5	514.6	514.7	514.8	514.9
165°	523.2	523.1	523.0	522.9	522.8	522.7	522.7	522.7	522.7	522.7	522.7
167.5°	531.0	530.7	530.4	530.1	529.8	529.6	529.6	529.6	529.6	529.6	529.6
170°	537.0	536.7	536.4	536.1	535.8	535.6	535.5	535.4	535.3	535.2	535.1
172.5°	541.1	540.8	540.5	540.2	539.9	539.7	539.7	539.6	539.5	539.4	539.3
175°	544.3	544.0	543.7	543.4	543.1	543.0	542.9	542.7	542.4	542.2	542.0
177.5°	546.2	545.9	545.6	545.3	545.0	544.8	544.7	544.5	544.3	544.1	543.9
180°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1393.3	1394.3	1396.4	1406.7	1411.8	1412.8	1408.7	1418.0	1421.1	1418.0	1415.9
5°	1459.2	1465.4	1477.8	1491.2	1490.1	1491.2	1497.3	1503.5	1505.6	1497.3	1500.4
7.5°	1516.9	1529.3	1542.7	1563.3	1563.3	1573.6	1577.7	1582.9	1595.2	1589.1	1587.0
10°	1582.9	1599.4	1624.1	1657.1	1658.1	1668.4	1678.7	1695.2	1700.4	1696.2	1698.3
12.5°	1665.3	1697.3	1699.3	1735.4	1751.9	1753.9	1770.4	1767.3	1777.6	1777.6	1795.2
15°	1701.4	1750.8	1778.7	1813.7	1824.0	1811.6	1825.0	1839.5	1840.5	1840.5	1839.5
17.5°	1766.3	1785.9	1813.7	1832.3	1836.4	1836.4	1837.4	1843.6	1839.5	1831.2	1837.4
20°	1779.7	1787.9	1798.3	1796.2	1798.3	1787.9	1777.6	1767.3	1768.4	1763.2	1778.7
22.5°	1755.0	1752.9	1729.2	1713.8	1713.8	1693.1	1673.6	1664.3	1655.0	1658.1	1663.3
25°	1693.1	1661.2	1632.3	1609.7	1604.5	1571.5	1544.7	1536.5	1521.0	1533.4	1535.5
27.5°	1594.2	1558.1	1511.8	1492.2	1465.4	1452.0	1433.4	1408.7	1376.8	1395.3	1392.2
30°	1488.1	1434.5	1396.4	1348.9	1306.7	1303.6	1268.6	1227.3	1210.9	1210.9	1220.1
32.5°	1369.6	1298.5	1242.8	1175.8	1134.6	1117.1	1074.8	1033.6	1042.9	1012.0	1023.3
35°	1231.5	1137.7	1067.6	1002.7	971.8	951.2	896.6	873.9	849.1	834.7	861.5
37.5°	1099.6	991.4	901.7	830.6	819.3	782.2	745.1	730.6	716.2	722.4	721.4
40°	938.8	843.0	762.6	706.9	687.4	669.8	645.1	627.6	618.3	623.5	624.5
42.5°	793.5	713.1	653.3	614.2	597.7	585.3	573.0	558.5	555.4	555.4	559.6
45°	681.2	615.2	575.0	543.1	533.8	524.5	515.3	509.1	507.0	502.9	506.0
47.5°	591.5	539.0	514.2	490.5	480.2	478.2	469.9	466.8	462.7	461.7	462.7
50°	516.3	483.3	460.6	447.2	440.0	436.9	432.8	426.6	424.6	429.7	427.7
52.5°	463.7	432.8	420.5	407.1	402.9	398.8	392.6	393.7	392.6	390.6	390.6
55°	411.2	391.6	379.2	368.9	367.9	363.8	358.6	356.6	355.5	353.5	356.6
57.5°	368.9	353.5	342.1	332.9	328.7	328.7	323.6	319.5	319.5	318.4	319.5
60°	326.7	311.2	304.0	294.7	291.6	290.6	287.5	285.5	282.4	282.4	282.4
62.5°	287.5	275.1	266.9	258.7	259.7	254.5	250.4	248.4	248.4	249.4	249.4
65°	250.4	242.2	231.9	224.7	222.6	221.6	219.5	218.5	215.4	217.4	217.4
67.5°	216.4	205.1	198.9	195.8	192.7	191.7	189.6	187.6	186.5	185.5	187.6
70°	182.4	173.1	168.0	165.9	162.8	161.8	160.8	157.7	158.7	159.7	160.8
72.5°	151.5	143.2	142.2	136.0	136.0	136.0	131.9	134.0	132.9	130.9	132.9
75°	119.5	115.4	113.4	110.3	111.3	110.3	109.2	106.1	106.1	107.2	108.2
77.5°	94.8	90.7	89.7	86.6	84.5	86.6	84.5	83.5	83.5	84.5	84.5
80°	70.1	68.0	64.9	64.9	64.9	63.9	63.9	63.9	62.9	61.8	62.9
82.5°	46.4	46.4	45.3	44.3	45.3	43.3	44.3	44.3	44.3	44.3	44.3
85°	29.9	28.9	28.9	27.8	27.8	27.8	28.9	26.8	26.8	27.8	27.8
87.5°	13.4	13.4	13.4	14.4	13.4	13.4	13.4	14.4	13.4	13.4	13.4
90°	15.9	15.7	15.5	15.3	15.2	15.2	15.3	15.4	15.5	15.6	15.5
92.5°	14.4	14.5	14.6	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
95°	29.4	29.4	29.4	29.4	29.4	29.3	29.1	28.9	28.7	28.5	28.7
97.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
100°	63.5	63.5	63.5	63.5	63.5	63.4	63.3	63.2	63.1	63.0	63.1
102.5°	82.5	82.6	82.7	82.8	82.8	82.8	82.7	82.6	82.5	82.4	82.5
105°	101.4	101.6	101.9	102.1	102.2	102.2	102.2	102.2	102.2	102.2	102.2
107.5°	122.0	122.1	122.2	122.3	122.4	122.1	121.6	121.1	120.6	120.1	120.6
110°	143.1	143.1	143.1	143.1	143.1	142.9	142.6	142.3	142.0	141.7	142.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	164.4	164.1	163.8	163.5	163.3	163.2	163.0	162.8	162.6	162.4	162.6
115°	185.8	185.7	185.6	185.5	185.4	185.3	185.0	184.7	184.4	184.1	184.4
117.5°	206.8	206.5	206.2	205.9	205.7	205.5	205.2	204.9	204.6	204.3	204.6
120°	227.3	227.3	227.3	227.3	227.3	227.1	226.8	226.5	226.2	225.9	226.2
122.5°	249.1	248.8	248.5	248.2	248.0	247.9	247.7	247.5	247.3	247.1	247.3
125°	270.3	270.0	269.7	269.4	269.2	269.1	269.0	268.9	268.8	268.7	268.8
127.5°	290.9	290.5	290.0	289.6	289.4	289.2	288.9	288.6	288.3	288.0	288.3
130°	311.8	311.6	311.4	311.2	311.1	310.9	310.5	310.0	309.6	309.2	309.6
132.5°	332.6	332.1	331.6	331.1	330.8	330.7	330.4	330.1	329.8	329.5	329.8
135°	352.4	352.3	352.2	352.1	352.0	351.8	351.5	351.2	350.9	350.6	350.9
137.5°	371.7	371.6	371.5	371.4	371.3	371.1	370.7	370.3	369.9	369.5	369.9
140°	391.1	391.1	391.1	391.1	391.1	390.9	390.5	390.1	389.7	389.3	389.7
142.5°	408.7	408.8	408.9	409.0	409.1	408.9	408.5	408.0	407.6	407.2	407.6
145°	426.6	426.7	426.8	426.9	427.0	426.8	426.4	426.0	425.6	425.2	425.6
147.5°	442.4	442.6	442.8	443.0	443.1	442.9	442.5	442.1	441.7	441.3	441.7
150°	457.2	457.5	457.8	458.1	458.3	458.1	457.8	457.5	457.2	456.9	457.2
152.5°	472.0	472.4	472.9	473.3	473.5	473.3	472.9	472.4	472.0	471.6	472.0
155°	484.1	484.6	485.1	485.6	485.9	485.7	485.4	485.1	484.8	484.5	484.8
157.5°	495.8	496.5	497.2	497.9	498.3	498.0	497.5	497.0	496.5	496.0	496.5
160°	506.3	506.9	507.6	508.2	508.5	508.3	507.9	507.4	507.0	506.6	507.0
162.5°	515.6	516.3	517.0	517.7	518.1	517.8	517.3	516.8	516.3	515.8	516.3
165°	523.4	524.1	524.8	525.5	525.9	525.6	525.1	524.6	524.1	523.6	524.1
167.5°	530.3	531.0	531.7	532.4	532.8	532.5	532.0	531.5	531.0	530.5	531.0
170°	535.8	536.6	537.3	538.0	538.4	538.1	537.5	536.8	536.2	535.6	536.2
172.5°	540.0	540.7	541.4	542.1	542.5	542.2	541.6	540.9	540.3	539.7	540.3
175°	542.7	543.5	544.2	544.9	545.3	545.0	544.4	543.7	543.1	542.5	543.1
177.5°	544.5	545.1	545.7	546.3	546.6	546.3	545.7	545.1	544.5	543.9	544.5
180°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1421.1	1413.9	1407.7	1408.7	1413.9	1409.7	1399.4	1386.0	1380.9	1374.7	1380.9
5°	1506.6	1500.4	1488.1	1489.1	1486.0	1481.9	1465.4	1444.8	1444.8	1428.3	1426.2
7.5°	1591.1	1581.8	1573.6	1571.5	1560.2	1552.0	1537.5	1508.7	1497.3	1477.8	1466.4
10°	1685.9	1678.7	1669.4	1658.1	1651.9	1637.5	1613.8	1571.5	1550.9	1524.1	1504.6
12.5°	1781.8	1780.7	1760.1	1737.5	1736.4	1713.8	1697.3	1640.6	1612.8	1576.7	1530.3
15°	1842.6	1837.4	1826.1	1814.7	1817.8	1793.1	1756.0	1689.0	1670.5	1627.2	1577.7
17.5°	1841.5	1841.5	1838.4	1836.4	1833.3	1826.1	1805.5	1761.2	1731.3	1676.7	1630.3
20°	1782.8	1796.2	1799.3	1798.3	1808.6	1813.7	1812.7	1784.9	1761.2	1712.7	1665.3
22.5°	1665.3	1696.2	1709.6	1717.9	1739.5	1750.8	1777.6	1767.3	1761.2	1725.1	1684.9
25°	1556.1	1566.4	1606.6	1608.6	1638.5	1666.3	1693.1	1710.7	1733.3	1719.9	1685.9
27.5°	1414.9	1438.6	1467.5	1489.1	1495.3	1552.0	1596.3	1629.2	1680.8	1684.9	1673.6
30°	1255.2	1266.5	1313.9	1342.8	1375.7	1417.0	1480.9	1537.5	1583.9	1626.2	1640.6
32.5°	1060.4	1106.8	1134.6	1169.6	1198.5	1271.7	1350.0	1423.1	1476.7	1547.8	1578.8
35°	882.1	918.2	965.6	980.0	1032.6	1094.4	1196.4	1290.2	1371.6	1443.8	1506.6
37.5°	734.8	763.6	814.1	836.8	867.7	947.0	1032.6	1149.0	1246.9	1335.6	1413.9
40°	633.8	655.4	693.5	700.8	726.5	798.7	867.7	976.9	1106.8	1226.3	1311.8
42.5°	564.7	575.0	600.8	610.1	626.6	675.0	736.8	839.9	960.4	1084.1	1204.7
45°	515.3	522.5	537.9	546.2	566.8	588.4	638.9	721.4	816.2	940.9	1070.7
47.5°	470.9	480.2	486.4	491.6	502.9	526.6	559.6	620.4	711.1	825.4	951.2
50°	433.8	436.9	448.3	449.3	456.5	472.0	502.9	540.0	612.1	704.9	826.5
52.5°	396.7	399.8	407.1	414.3	417.4	429.7	450.3	481.3	534.8	608.0	716.2
55°	359.7	363.8	371.0	376.1	379.2	389.5	401.9	431.8	474.0	525.6	614.2
57.5°	322.6	331.8	333.9	337.0	342.1	353.5	364.8	382.3	415.3	462.7	527.6
60°	287.5	290.6	297.8	300.9	306.1	312.2	326.7	340.1	363.8	400.9	459.6
62.5°	251.4	258.7	261.8	264.8	269.0	276.2	285.5	299.9	320.5	350.4	396.7
65°	220.5	221.6	227.7	231.9	236.0	241.1	250.4	263.8	276.2	304.0	338.0
67.5°	190.6	192.7	194.8	198.9	204.0	209.2	217.4	224.7	240.1	258.7	285.5
70°	161.8	161.8	166.9	170.0	169.0	175.2	181.4	189.6	201.0	218.5	240.1
72.5°	136.0	135.0	139.1	140.2	142.2	146.3	150.5	158.7	164.9	178.3	194.8
75°	108.2	110.3	112.3	112.3	115.4	118.5	122.6	126.8	134.0	142.2	154.6
77.5°	85.5	85.5	87.6	88.6	91.7	90.7	94.8	98.9	104.1	111.3	120.6
80°	62.9	64.9	64.9	64.9	66.0	67.0	71.1	74.2	77.3	82.4	86.6
82.5°	44.3	44.3	46.4	46.4	46.4	48.4	48.4	49.5	51.5	54.6	57.7
85°	27.8	27.8	27.8	28.9	27.8	28.9	30.9	29.9	30.9	33.0	33.0
87.5°	13.4	13.4	13.4	13.4	13.4	14.4	13.4	14.4	15.5	15.5	15.5
90°	15.4	15.3	15.2	15.2	15.3	15.5	15.7	15.9	16.1	13.9	11.6
92.5°	14.7	14.7	14.7	14.7	14.7	14.6	14.5	14.4	14.3	14.2	14.1
95°	28.9	29.1	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.2	29.0
97.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	45.6	45.2
100°	63.2	63.3	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.2	62.9
102.5°	82.6	82.7	82.8	82.8	82.8	82.7	82.6	82.5	82.4	82.0	81.6
105°	102.2	102.2	102.2	102.2	102.1	101.9	101.6	101.4	101.2	101.0	100.8
107.5°	121.1	121.6	122.1	122.4	122.3	122.2	122.1	122.0	121.9	121.9	121.9
110°	142.3	142.6	142.9	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	162.8	163.0	163.2	163.3	163.5	163.8	164.1	164.4	164.7	164.8	164.9
115°	184.7	185.0	185.3	185.4	185.5	185.6	185.7	185.8	185.9	186.1	186.3
117.5°	204.9	205.2	205.5	205.7	205.9	206.2	206.5	206.8	207.1	207.6	208.1
120°	226.5	226.8	227.1	227.3	227.3	227.3	227.3	227.3	227.3	228.1	228.9
122.5°	247.5	247.7	247.9	248.0	248.2	248.5	248.8	249.1	249.4	249.9	250.4
125°	268.9	269.0	269.1	269.2	269.4	269.7	270.0	270.3	270.6	270.9	271.2
127.5°	288.6	288.9	289.2	289.4	289.6	290.0	290.5	290.9	291.3	291.7	292.1
130°	310.0	310.5	310.9	311.1	311.2	311.4	311.6	311.8	312.0	312.2	312.4
132.5°	330.1	330.4	330.7	330.8	331.1	331.6	332.1	332.6	333.1	333.0	332.9
135°	351.2	351.5	351.8	352.0	352.1	352.2	352.3	352.4	352.5	352.3	352.1
137.5°	370.3	370.7	371.1	371.3	371.4	371.5	371.6	371.7	371.8	371.6	371.4
140°	390.1	390.5	390.9	391.1	391.1	391.1	391.1	391.1	391.1	390.6	390.1
142.5°	408.0	408.5	408.9	409.1	409.0	408.9	408.8	408.7	408.6	408.3	408.0
145°	426.0	426.4	426.8	427.0	426.9	426.8	426.7	426.6	426.5	425.9	425.3
147.5°	442.1	442.5	442.9	443.1	443.0	442.8	442.6	442.4	442.2	441.8	441.4
150°	457.5	457.8	458.1	458.3	458.1	457.8	457.5	457.2	456.9	456.5	456.1
152.5°	472.4	472.9	473.3	473.5	473.3	472.9	472.4	472.0	471.6	471.1	470.6
155°	485.1	485.4	485.7	485.9	485.6	485.1	484.6	484.1	483.6	483.3	483.0
157.5°	497.0	497.5	498.0	498.3	497.9	497.2	496.5	495.8	495.1	494.9	494.7
160°	507.4	507.9	508.3	508.5	508.2	507.6	506.9	506.3	505.7	505.6	505.5
162.5°	516.8	517.3	517.8	518.1	517.7	517.0	516.3	515.6	514.9	514.8	514.7
165°	524.6	525.1	525.6	525.9	525.5	524.8	524.1	523.4	522.7	522.7	522.7
167.5°	531.5	532.0	532.5	532.8	532.4	531.7	531.0	530.3	529.6	529.6	529.6
170°	536.8	537.5	538.1	538.4	538.0	537.3	536.6	535.8	535.1	535.2	535.3
172.5°	540.9	541.6	542.2	542.5	542.1	541.4	540.7	540.0	539.3	539.4	539.5
175°	543.7	544.4	545.0	545.3	544.9	544.2	543.5	542.7	542.0	542.2	542.4
177.5°	545.1	545.7	546.3	546.6	546.3	545.7	545.1	544.5	543.9	544.1	544.3
180°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1375.7	1370.6	1367.5	1369.6	1363.4	1347.9	1347.9	1353.1	1346.9	1340.7	1331.4
5°	1413.9	1403.6	1397.4	1396.4	1381.9	1357.2	1352.0	1346.9	1333.5	1319.1	1303.6
7.5°	1451.0	1432.4	1422.1	1414.9	1394.3	1362.3	1348.9	1337.6	1316.0	1294.3	1274.8
10°	1481.9	1455.1	1442.7	1431.4	1404.6	1364.4	1342.8	1322.2	1294.3	1266.5	1241.8
12.5°	1506.6	1475.7	1460.2	1443.8	1410.8	1358.2	1331.4	1298.5	1270.6	1233.5	1208.8
15°	1547.8	1483.9	1469.5	1454.1	1420.1	1347.9	1314.9	1277.8	1239.7	1190.2	1163.5
17.5°	1580.8	1495.3	1494.3	1461.3	1417.0	1343.8	1293.3	1244.9	1203.6	1154.2	1111.9
20°	1600.4	1512.8	1496.3	1462.3	1406.7	1316.0	1263.4	1209.8	1165.5	1105.7	1063.5
22.5°	1616.9	1537.5	1494.3	1453.0	1385.0	1306.7	1229.4	1178.9	1118.1	1053.2	1013.0
25°	1623.1	1542.7	1497.3	1449.9	1369.6	1279.9	1192.3	1137.7	1069.7	1010.9	956.3
27.5°	1624.1	1541.7	1486.0	1436.5	1347.9	1244.9	1155.2	1097.5	1022.3	954.3	899.6
30°	1613.8	1530.3	1479.8	1426.2	1327.3	1212.9	1109.9	1046.0	965.6	897.6	840.9
32.5°	1582.9	1507.6	1466.4	1407.7	1300.5	1168.6	1066.6	995.5	911.0	844.0	789.4
35°	1531.3	1479.8	1434.5	1379.9	1265.5	1127.4	1023.3	939.8	854.3	790.4	738.9
37.5°	1467.5	1439.6	1397.4	1343.8	1225.3	1090.3	974.9	882.1	796.6	734.8	684.3
40°	1380.9	1388.1	1346.9	1298.5	1177.9	1039.8	912.0	823.4	743.0	685.3	635.8
42.5°	1287.1	1317.0	1293.3	1246.9	1125.3	984.1	865.6	767.7	689.4	629.6	588.4
45°	1186.1	1237.7	1223.2	1189.2	1070.7	925.4	799.7	704.9	635.8	578.1	542.1
47.5°	1075.9	1149.0	1149.0	1124.3	1009.9	866.7	743.0	646.1	578.1	536.9	501.9
50°	963.5	1046.0	1059.4	1042.9	941.9	799.7	674.0	586.4	527.6	487.4	461.7
52.5°	846.1	941.9	966.6	958.4	869.8	735.8	617.3	531.7	478.2	443.1	420.5
55°	733.7	845.0	871.8	874.9	792.5	665.7	554.4	479.2	427.7	404.0	384.4
57.5°	627.6	734.8	764.6	769.8	714.1	601.8	495.7	429.7	383.4	363.8	348.3
60°	536.9	626.6	665.7	677.1	628.6	527.6	441.1	377.2	342.1	323.6	309.2
62.5°	462.7	534.8	576.1	579.2	557.5	462.7	384.4	330.8	300.9	284.4	277.2
65°	390.6	455.5	480.2	492.6	475.1	400.9	331.8	287.5	263.8	249.4	242.2
67.5°	332.9	374.1	394.7	411.2	393.7	338.0	282.4	246.3	228.8	214.3	210.2
70°	273.1	307.1	322.6	339.0	323.6	281.3	241.1	208.2	192.7	181.4	176.2
72.5°	218.5	245.3	259.7	270.0	260.7	225.7	192.7	170.0	158.7	150.5	147.4
75°	173.1	191.7	199.9	207.1	203.0	176.2	155.6	137.1	126.8	119.5	117.5
77.5°	131.9	145.3	154.6	156.6	151.5	134.0	116.4	105.1	96.9	92.7	90.7
80°	93.8	102.0	107.2	110.3	105.1	97.9	85.5	77.3	70.1	64.9	63.9
82.5°	62.9	67.0	71.1	70.1	68.0	61.8	54.6	50.5	47.4	43.3	43.3
85°	36.1	37.1	39.2	40.2	39.2	35.0	30.9	28.9	26.8	23.7	23.7
87.5°	15.5	16.5	16.5	17.5	15.5	15.5	13.4	11.3	11.3	10.3	9.3
90°	9.4	7.1	6.0	5.4	4.2	2.9	1.7	0.5	1.7	2.9	4.2
92.5°	14.0	13.9	13.8	13.4	12.6	11.7	10.9	10.1	10.9	11.7	12.6
95°	28.8	28.6	28.5	28.0	27.0	25.9	24.9	23.9	24.9	25.9	27.0
97.5°	44.8	44.4	44.2	43.7	42.8	41.9	40.9	40.0	40.9	41.9	42.8
100°	62.6	62.3	62.1	61.7	60.9	60.0	59.2	58.4	59.2	60.0	60.9
102.5°	81.1	80.7	80.5	80.2	79.6	79.0	78.4	77.8	78.4	79.0	79.6
105°	100.6	100.4	100.3	100.1	99.8	99.5	99.2	98.9	99.2	99.5	99.8
107.5°	121.9	121.9	121.9	121.7	121.3	120.9	120.5	120.1	120.5	120.9	121.3
110°	143.1	143.1	143.1	142.8	142.2	141.5	140.9	140.3	140.9	141.5	142.2

TEST NUMBER: P1029657

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	165.0	165.1	165.2	164.9	164.3	163.6	163.0	162.4	163.0	163.6	164.3
115°	186.5	186.7	186.8	186.5	185.9	185.3	184.7	184.1	184.7	185.3	185.9
117.5°	208.6	209.1	209.4	209.0	208.2	207.3	206.5	205.7	206.5	207.3	208.2
120°	229.8	230.6	231.0	230.6	229.8	228.9	228.1	227.3	228.1	228.9	229.8
122.5°	250.9	251.4	251.7	251.2	250.2	249.1	248.1	247.1	248.1	249.1	250.2
125°	271.5	271.8	271.9	271.4	270.5	269.6	268.7	267.8	268.7	269.6	270.5
127.5°	292.5	292.9	293.1	292.5	291.4	290.3	289.1	288.0	289.1	290.3	291.4
130°	312.6	312.8	312.9	312.2	310.9	309.6	308.2	306.9	308.2	309.6	310.9
132.5°	332.8	332.7	332.7	332.2	331.2	330.1	329.1	328.1	329.1	330.1	331.2
135°	351.8	351.6	351.5	350.9	349.8	348.7	347.6	346.5	347.6	348.7	349.8
137.5°	371.2	371.0	370.9	370.4	369.5	368.6	367.6	366.7	367.6	368.6	369.5
140°	389.6	389.1	388.8	388.3	387.4	386.5	385.6	384.7	385.6	386.5	387.4
142.5°	407.7	407.4	407.2	406.7	405.8	404.9	404.0	403.1	404.0	404.9	405.8
145°	424.7	424.1	423.8	423.4	422.7	422.0	421.3	420.6	421.3	422.0	422.7
147.5°	441.0	440.6	440.4	439.9	439.0	438.1	437.1	436.2	437.1	438.1	439.0
150°	455.7	455.3	455.1	454.8	454.2	453.5	452.9	452.3	452.9	453.5	454.2
152.5°	470.1	469.6	469.3	469.0	468.4	467.8	467.2	466.6	467.2	467.8	468.4
155°	482.7	482.4	482.2	482.0	481.7	481.4	481.1	480.8	481.1	481.4	481.7
157.5°	494.5	494.3	494.2	494.1	493.9	493.7	493.5	493.3	493.5	493.7	493.9
160°	505.4	505.3	505.2	505.1	504.9	504.7	504.5	504.3	504.5	504.7	504.9
162.5°	514.6	514.5	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4
165°	522.7	522.7	522.7	522.8	522.9	523.0	523.1	523.2	523.1	523.0	522.9
167.5°	529.6	529.6	529.6	529.8	530.1	530.4	530.7	531.0	530.7	530.4	530.1
170°	535.4	535.5	535.6	535.8	536.1	536.4	536.7	537.0	536.7	536.4	536.1
172.5°	539.6	539.7	539.7	539.9	540.2	540.5	540.8	541.1	540.8	540.5	540.2
175°	542.7	542.9	543.0	543.1	543.4	543.7	544.0	544.3	544.0	543.7	543.4
177.5°	544.5	544.7	544.8	545.0	545.3	545.6	545.9	546.2	545.9	545.6	545.3
180°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3

TEST NUMBER: P1029657

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1326.3	1331.4	1330.4	1320.1	1308.8	1299.5	1282.0	1284.0	1277.8	1278.9	1285.1
5°	1293.3	1293.3	1289.2	1274.8	1256.2	1245.9	1226.3	1221.2	1208.8	1207.8	1206.7
7.5°	1258.3	1253.1	1248.0	1227.3	1204.7	1188.2	1161.4	1155.2	1142.8	1134.6	1130.5
10°	1217.0	1209.8	1199.5	1175.8	1148.0	1127.4	1099.6	1091.3	1067.6	1057.3	1051.1
12.5°	1171.7	1167.6	1151.1	1131.5	1086.2	1063.5	1023.3	1031.5	1007.8	987.2	984.1
15°	1126.4	1110.9	1101.6	1069.7	1015.1	1004.8	972.8	956.3	934.7	918.2	918.2
17.5°	1082.0	1058.3	1037.7	1003.7	963.5	934.7	911.0	902.7	875.9	859.5	856.4
20°	1023.3	996.5	991.4	942.9	915.1	883.2	860.5	839.9	820.3	813.1	807.9
22.5°	967.7	936.7	928.5	887.3	859.5	827.5	804.8	790.4	776.0	770.8	761.6
25°	907.9	889.3	877.0	832.7	801.7	771.9	756.4	746.1	732.7	731.7	725.5
27.5°	850.2	832.7	820.3	778.0	755.4	727.5	715.2	703.8	696.6	693.5	690.4
30°	800.7	781.1	766.7	735.8	708.0	685.3	675.0	667.8	663.7	658.5	657.5
32.5°	746.1	734.8	715.2	691.5	669.8	648.2	642.0	636.9	630.7	628.6	627.6
35°	699.7	684.3	671.9	645.1	635.8	617.3	610.1	605.9	597.7	595.6	593.6
37.5°	654.4	640.0	626.6	610.1	592.5	582.2	578.1	571.9	567.8	568.8	566.8
40°	609.0	597.7	587.4	569.9	559.6	554.4	546.2	540.0	537.9	539.0	537.9
42.5°	564.7	554.4	548.2	534.8	524.5	519.4	514.2	508.0	511.1	511.1	514.2
45°	524.5	515.3	511.1	500.8	494.6	486.4	481.3	480.2	484.3	483.3	483.3
47.5°	483.3	480.2	475.1	465.8	457.5	452.4	451.4	451.4	455.5	457.5	456.5
50°	451.4	445.2	439.0	431.8	425.6	423.5	420.5	422.5	426.6	426.6	428.7
52.5°	411.2	407.1	405.0	398.8	394.7	394.7	394.7	395.7	398.8	401.9	400.9
55°	376.1	373.0	371.0	367.9	362.7	363.8	362.7	364.8	367.9	371.0	373.0
57.5°	339.0	338.0	335.9	330.8	330.8	329.8	332.9	333.9	339.0	341.1	344.2
60°	306.1	303.0	303.0	298.9	298.9	298.9	301.9	305.0	309.2	310.2	312.2
62.5°	271.0	271.0	270.0	266.9	266.9	270.0	271.0	275.1	277.2	277.2	280.3
65°	238.0	237.0	236.0	237.0	238.0	238.0	241.1	243.2	245.3	246.3	247.3
67.5°	205.1	204.0	206.1	205.1	207.1	211.3	210.2	213.3	216.4	216.4	217.4
70°	174.2	176.2	175.2	177.2	176.2	178.3	181.4	182.4	182.4	183.4	186.5
72.5°	145.3	145.3	145.3	144.3	145.3	147.4	149.4	150.5	152.5	153.5	156.6
75°	117.5	117.5	115.4	117.5	117.5	119.5	121.6	121.6	121.6	123.7	126.8
77.5°	88.6	89.7	88.6	90.7	90.7	91.7	93.8	92.7	94.8	95.8	96.9
80°	64.9	63.9	63.9	63.9	64.9	64.9	67.0	68.0	68.0	71.1	69.0
82.5°	41.2	42.3	41.2	42.3	42.3	43.3	42.3	43.3	44.3	46.4	45.3
85°	23.7	22.7	22.7	23.7	22.7	22.7	23.7	22.7	23.7	22.7	23.7
87.5°	9.3	8.2	8.2	8.2	8.2	7.2	7.2	6.2	6.2	6.2	5.2
90°	5.4	6.0	7.1	9.4	11.6	13.9	16.1	15.9	15.7	15.5	15.3
92.5°	13.4	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7
95°	28.0	28.5	28.6	28.8	29.0	29.2	29.4	29.4	29.4	29.4	29.4
97.5°	43.7	44.2	44.4	44.8	45.2	45.6	46.0	46.0	46.0	46.0	46.0
100°	61.7	62.1	62.3	62.6	62.9	63.2	63.5	63.5	63.5	63.5	63.5
102.5°	80.2	80.5	80.7	81.1	81.6	82.0	82.4	82.5	82.6	82.7	82.8
105°	100.1	100.3	100.4	100.6	100.8	101.0	101.2	101.4	101.6	101.9	102.1
107.5°	121.7	121.9	121.9	121.9	121.9	121.9	121.9	122.0	122.1	122.2	122.3
110°	142.8	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	164.9	165.2	165.1	165.0	164.9	164.8	164.7	164.4	164.1	163.8	163.5
115°	186.5	186.8	186.7	186.5	186.3	186.1	185.9	185.8	185.7	185.6	185.5
117.5°	209.0	209.4	209.1	208.6	208.1	207.6	207.1	206.8	206.5	206.2	205.9
120°	230.6	231.0	230.6	229.8	228.9	228.1	227.3	227.3	227.3	227.3	227.3
122.5°	251.2	251.7	251.4	250.9	250.4	249.9	249.4	249.1	248.8	248.5	248.2
125°	271.4	271.9	271.8	271.5	271.2	270.9	270.6	270.3	270.0	269.7	269.4
127.5°	292.5	293.1	292.9	292.5	292.1	291.7	291.3	290.9	290.5	290.0	289.6
130°	312.2	312.9	312.8	312.6	312.4	312.2	312.0	311.8	311.6	311.4	311.2
132.5°	332.2	332.7	332.7	332.8	332.9	333.0	333.1	332.6	332.1	331.6	331.1
135°	350.9	351.5	351.6	351.8	352.1	352.3	352.5	352.4	352.3	352.2	352.1
137.5°	370.4	370.9	371.0	371.2	371.4	371.6	371.8	371.7	371.6	371.5	371.4
140°	388.3	388.8	389.1	389.6	390.1	390.6	391.1	391.1	391.1	391.1	391.1
142.5°	406.7	407.2	407.4	407.7	408.0	408.3	408.6	408.7	408.8	408.9	409.0
145°	423.4	423.8	424.1	424.7	425.3	425.9	426.5	426.6	426.7	426.8	426.9
147.5°	439.9	440.4	440.6	441.0	441.4	441.8	442.2	442.4	442.6	442.8	443.0
150°	454.8	455.1	455.3	455.7	456.1	456.5	456.9	457.2	457.5	457.8	458.1
152.5°	469.0	469.3	469.6	470.1	470.6	471.1	471.6	472.0	472.4	472.9	473.3
155°	482.0	482.2	482.4	482.7	483.0	483.3	483.6	484.1	484.6	485.1	485.6
157.5°	494.1	494.2	494.3	494.5	494.7	494.9	495.1	495.8	496.5	497.2	497.9
160°	505.1	505.2	505.3	505.4	505.5	505.6	505.7	506.3	506.9	507.6	508.2
162.5°	514.4	514.4	514.5	514.6	514.7	514.8	514.9	515.6	516.3	517.0	517.7
165°	522.8	522.7	522.7	522.7	522.7	522.7	522.7	523.4	524.1	524.8	525.5
167.5°	529.8	529.6	529.6	529.6	529.6	529.6	529.6	530.3	531.0	531.7	532.4
170°	535.8	535.6	535.5	535.4	535.3	535.2	535.1	535.8	536.6	537.3	538.0
172.5°	539.9	539.7	539.7	539.6	539.5	539.4	539.3	540.0	540.7	541.4	542.1
175°	543.1	543.0	542.9	542.7	542.4	542.2	542.0	542.7	543.5	544.2	544.9
177.5°	545.0	544.8	544.7	544.5	544.3	544.1	543.9	544.5	545.1	545.7	546.3
180°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3

TEST NUMBER: P1029657

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1277.8	1280.9	1273.7	1271.7	1273.7	1266.5	1268.6	1270.6	1270.6	1273.7	1275.8
5°	1203.6	1199.5	1192.3	1190.2	1188.2	1191.3	1189.2	1192.3	1193.3	1200.6	1201.6
7.5°	1130.5	1124.3	1118.1	1111.9	1109.9	1104.7	1109.9	1109.9	1117.1	1115.0	1120.2
10°	1043.9	1042.9	1034.6	1031.5	1027.4	1019.2	1030.5	1027.4	1032.6	1041.9	1043.9
12.5°	980.0	968.7	973.8	959.4	964.6	956.3	957.4	957.4	965.6	966.6	964.6
15°	919.2	909.9	896.6	890.4	887.3	883.2	896.6	897.6	891.4	905.8	900.7
17.5°	857.4	857.4	845.0	841.9	833.7	837.8	835.7	836.8	834.7	845.0	850.2
20°	803.8	798.7	794.5	795.6	785.3	783.2	781.1	783.2	790.4	797.6	799.7
22.5°	760.5	757.4	747.1	749.2	740.9	744.0	742.0	747.1	748.2	748.2	755.4
25°	719.3	715.2	716.2	712.1	709.0	709.0	705.9	709.0	713.1	715.2	716.2
27.5°	688.4	685.3	680.1	677.1	679.1	674.0	678.1	681.2	681.2	679.1	681.2
30°	651.3	653.3	653.3	643.0	647.2	645.1	648.2	650.3	650.3	651.3	649.2
32.5°	626.6	620.4	619.3	618.3	618.3	614.2	614.2	617.3	618.3	619.3	622.4
35°	593.6	593.6	588.4	591.5	587.4	588.4	587.4	588.4	590.5	587.4	590.5
37.5°	563.7	564.7	562.7	564.7	565.8	563.7	561.6	565.8	563.7	563.7	561.6
40°	537.9	536.9	537.9	537.9	537.9	539.0	536.9	536.9	536.9	534.8	532.8
42.5°	516.3	510.1	512.2	513.2	510.1	510.1	511.1	510.1	513.2	507.0	507.0
45°	485.4	483.3	484.3	484.3	486.4	483.3	485.4	486.4	483.3	482.3	480.2
47.5°	457.5	459.6	457.5	459.6	459.6	461.7	457.5	458.6	459.6	455.5	452.4
50°	429.7	429.7	432.8	431.8	432.8	430.8	430.8	429.7	430.8	428.7	425.6
52.5°	404.0	400.9	406.0	405.0	404.0	402.9	401.9	402.9	400.9	398.8	398.8
55°	372.0	372.0	375.1	376.1	376.1	374.1	372.0	373.0	372.0	371.0	370.0
57.5°	346.3	342.1	344.2	345.2	345.2	342.1	344.2	342.1	342.1	343.2	340.1
60°	313.3	313.3	311.2	314.3	314.3	312.2	312.2	313.3	311.2	310.2	309.2
62.5°	278.2	279.3	282.4	283.4	284.4	282.4	280.3	281.3	281.3	278.2	279.3
65°	248.4	250.4	254.5	253.5	251.4	252.5	250.4	251.4	248.4	249.4	246.3
67.5°	219.5	218.5	219.5	219.5	221.6	220.5	218.5	218.5	217.4	220.5	217.4
70°	188.6	188.6	188.6	188.6	189.6	190.6	188.6	186.5	187.6	185.5	184.5
72.5°	156.6	157.7	156.6	158.7	155.6	157.7	157.7	156.6	155.6	155.6	155.6
75°	126.8	128.8	125.7	126.8	125.7	127.8	126.8	126.8	124.7	123.7	124.7
77.5°	96.9	97.9	95.8	96.9	95.8	96.9	96.9	95.8	95.8	95.8	95.8
80°	69.0	70.1	69.0	68.0	67.0	69.0	67.0	68.0	69.0	68.0	70.1
82.5°	44.3	44.3	43.3	44.3	42.3	42.3	43.3	43.3	42.3	44.3	42.3
85°	21.6	21.6	23.7	21.6	20.6	20.6	20.6	21.6	20.6	22.7	21.6
87.5°	5.2	4.1	5.2	5.2	4.1	4.1	5.2	4.1	5.2	6.2	4.1
90°	15.2	15.2	15.3	15.4	15.5	15.6	15.5	15.4	15.3	15.2	15.2
92.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
95°	29.4	29.3	29.1	28.9	28.7	28.5	28.7	28.9	29.1	29.3	29.4
97.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
100°	63.5	63.4	63.3	63.2	63.1	63.0	63.1	63.2	63.3	63.4	63.5
102.5°	82.8	82.8	82.7	82.6	82.5	82.4	82.5	82.6	82.7	82.8	82.8
105°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2
107.5°	122.4	122.1	121.6	121.1	120.6	120.1	120.6	121.1	121.6	122.1	122.4
110°	143.1	142.9	142.6	142.3	142.0	141.7	142.0	142.3	142.6	142.9	143.1



TEST NUMBER: P1029657

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	163.3	163.2	163.0	162.8	162.6	162.4	162.6	162.8	163.0	163.2	163.3
115°	185.4	185.3	185.0	184.7	184.4	184.1	184.4	184.7	185.0	185.3	185.4
117.5°	205.7	205.5	205.2	204.9	204.6	204.3	204.6	204.9	205.2	205.5	205.7
120°	227.3	227.1	226.8	226.5	226.2	225.9	226.2	226.5	226.8	227.1	227.3
122.5°	248.0	247.9	247.7	247.5	247.3	247.1	247.3	247.5	247.7	247.9	248.0
125°	269.2	269.1	269.0	268.9	268.8	268.7	268.8	268.9	269.0	269.1	269.2
127.5°	289.4	289.2	288.9	288.6	288.3	288.0	288.3	288.6	288.9	289.2	289.4
130°	311.1	310.9	310.5	310.0	309.6	309.2	309.6	310.0	310.5	310.9	311.1
132.5°	330.8	330.7	330.4	330.1	329.8	329.5	329.8	330.1	330.4	330.7	330.8
135°	352.0	351.8	351.5	351.2	350.9	350.6	350.9	351.2	351.5	351.8	352.0
137.5°	371.3	371.1	370.7	370.3	369.9	369.5	369.9	370.3	370.7	371.1	371.3
140°	391.1	390.9	390.5	390.1	389.7	389.3	389.7	390.1	390.5	390.9	391.1
142.5°	409.1	408.9	408.5	408.0	407.6	407.2	407.6	408.0	408.5	408.9	409.1
145°	427.0	426.8	426.4	426.0	425.6	425.2	425.6	426.0	426.4	426.8	427.0
147.5°	443.1	442.9	442.5	442.1	441.7	441.3	441.7	442.1	442.5	442.9	443.1
150°	458.3	458.1	457.8	457.5	457.2	456.9	457.2	457.5	457.8	458.1	458.3
152.5°	473.5	473.3	472.9	472.4	472.0	471.6	472.0	472.4	472.9	473.3	473.5
155°	485.9	485.7	485.4	485.1	484.8	484.5	484.8	485.1	485.4	485.7	485.9
157.5°	498.3	498.0	497.5	497.0	496.5	496.0	496.5	497.0	497.5	498.0	498.3
160°	508.5	508.3	507.9	507.4	507.0	506.6	507.0	507.4	507.9	508.3	508.5
162.5°	518.1	517.8	517.3	516.8	516.3	515.8	516.3	516.8	517.3	517.8	518.1
165°	525.9	525.6	525.1	524.6	524.1	523.6	524.1	524.6	525.1	525.6	525.9
167.5°	532.8	532.5	532.0	531.5	531.0	530.5	531.0	531.5	532.0	532.5	532.8
170°	538.4	538.1	537.5	536.8	536.2	535.6	536.2	536.8	537.5	538.1	538.4
172.5°	542.5	542.2	541.6	540.9	540.3	539.7	540.3	540.9	541.6	542.2	542.5
175°	545.3	545.0	544.4	543.7	543.1	542.5	543.1	543.7	544.4	545.0	545.3
177.5°	546.6	546.3	545.7	545.1	544.5	543.9	544.5	545.1	545.7	546.3	546.6
180°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3

TEST NUMBER: P1029657

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1272.7	1280.9	1277.8	1266.5	1279.9	1279.9	1289.2	1289.2	1300.5	1304.6	1310.8
5°	1200.6	1206.7	1211.9	1206.7	1216.0	1230.4	1238.7	1245.9	1261.4	1267.5	1276.8
7.5°	1123.3	1134.6	1139.8	1139.8	1155.2	1171.7	1188.2	1198.5	1220.1	1228.4	1237.7
10°	1048.0	1061.4	1071.7	1070.7	1096.5	1106.8	1127.4	1151.1	1172.7	1185.1	1198.5
12.5°	968.7	975.9	990.3	1010.9	1017.1	1035.7	1059.4	1089.3	1128.4	1139.8	1159.3
15°	902.7	922.3	933.6	942.9	957.4	974.9	1000.6	1029.5	1068.6	1093.4	1114.0
17.5°	847.1	872.8	880.1	878.0	896.6	923.3	953.2	974.9	1009.9	1039.8	1059.4
20°	801.7	812.0	824.4	829.6	844.0	872.8	901.7	926.4	955.3	979.0	1001.7
22.5°	756.4	764.6	774.9	784.2	795.6	812.0	839.9	870.8	898.6	921.3	947.0
25°	719.3	724.5	733.7	740.9	753.3	764.6	784.2	818.2	851.2	864.6	887.3
27.5°	683.2	687.4	693.5	701.8	708.0	719.3	736.8	764.6	798.7	812.0	843.0
30°	651.3	654.4	660.6	664.7	667.8	681.2	694.6	716.2	742.0	760.5	783.2
32.5°	621.4	624.5	630.7	631.7	635.8	643.0	655.4	675.0	697.7	713.1	732.7
35°	588.4	590.5	596.7	598.7	601.8	608.0	617.3	631.7	652.3	663.7	681.2
37.5°	562.7	561.6	565.8	568.8	573.0	576.1	579.2	593.6	609.0	619.3	632.7
40°	534.8	532.8	533.8	537.9	540.0	544.1	544.1	558.5	568.8	577.1	587.4
42.5°	507.0	506.0	503.9	506.0	508.0	509.1	510.1	520.4	530.7	537.9	549.3
45°	479.2	478.2	476.1	477.1	477.1	479.2	482.3	486.4	493.6	499.8	506.0
47.5°	453.4	451.4	448.3	447.2	449.3	449.3	449.3	453.4	460.6	462.7	468.9
50°	426.6	423.5	419.4	417.4	417.4	416.3	418.4	419.4	425.6	427.7	432.8
52.5°	397.8	395.7	391.6	387.5	388.5	386.4	387.5	388.5	390.6	393.7	396.7
55°	368.9	364.8	361.7	360.7	357.6	357.6	354.5	358.6	357.6	358.6	362.7
57.5°	341.1	337.0	331.8	329.8	326.7	325.6	323.6	322.6	323.6	326.7	329.8
60°	308.1	306.1	303.0	299.9	297.8	294.7	292.7	292.7	291.6	291.6	292.7
62.5°	276.2	275.1	271.0	270.0	267.9	265.9	262.8	260.7	260.7	262.8	263.8
65°	245.3	244.2	241.1	240.1	235.0	232.9	231.9	230.8	228.8	228.8	228.8
67.5°	216.4	213.3	213.3	208.2	204.0	202.0	199.9	198.9	198.9	198.9	199.9
70°	184.5	184.5	181.4	178.3	174.2	175.2	172.1	169.0	169.0	166.9	168.0
72.5°	153.5	152.5	149.4	148.4	145.3	142.2	140.2	142.2	139.1	138.1	139.1
75°	123.7	122.6	120.6	118.5	119.5	116.4	113.4	112.3	112.3	110.3	110.3
77.5°	94.8	96.9	92.7	91.7	89.7	87.6	86.6	85.5	85.5	85.5	87.6
80°	66.0	67.0	67.0	64.9	66.0	62.9	62.9	62.9	59.8	60.8	61.8
82.5°	42.3	42.3	41.2	42.3	41.2	41.2	40.2	40.2	39.2	39.2	40.2
85°	23.7	22.7	21.6	23.7	22.7	22.7	21.6	21.6	21.6	21.6	21.6
87.5°	5.2	6.2	6.2	6.2	6.2	7.2	7.2	7.2	8.2	8.2	8.2
90°	15.3	15.5	15.7	15.9	16.1	13.9	11.6	9.4	7.1	6.0	5.4
92.5°	14.7	14.6	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.8	13.4
95°	29.4	29.4	29.4	29.4	29.4	29.2	29.0	28.8	28.6	28.5	28.0
97.5°	46.0	46.0	46.0	46.0	46.0	45.6	45.2	44.8	44.4	44.2	43.7
100°	63.5	63.5	63.5	63.5	63.5	63.2	62.9	62.6	62.3	62.1	61.7
102.5°	82.8	82.7	82.6	82.5	82.4	82.0	81.6	81.1	80.7	80.5	80.2
105°	102.1	101.9	101.6	101.4	101.2	101.0	100.8	100.6	100.4	100.3	100.1
107.5°	122.3	122.2	122.1	122.0	121.9	121.9	121.9	121.9	121.9	121.9	121.7
110°	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1	143.1	142.8

TEST NUMBER: P1029657

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	163.5	163.8	164.1	164.4	164.7	164.8	164.9	165.0	165.1	165.2	164.9
115°	185.5	185.6	185.7	185.8	185.9	186.1	186.3	186.5	186.7	186.8	186.5
117.5°	205.9	206.2	206.5	206.8	207.1	207.6	208.1	208.6	209.1	209.4	209.0
120°	227.3	227.3	227.3	227.3	227.3	228.1	228.9	229.8	230.6	231.0	230.6
122.5°	248.2	248.5	248.8	249.1	249.4	249.9	250.4	250.9	251.4	251.7	251.2
125°	269.4	269.7	270.0	270.3	270.6	270.9	271.2	271.5	271.8	271.9	271.4
127.5°	289.6	290.0	290.5	290.9	291.3	291.7	292.1	292.5	292.9	293.1	292.5
130°	311.2	311.4	311.6	311.8	312.0	312.2	312.4	312.6	312.8	312.9	312.2
132.5°	331.1	331.6	332.1	332.6	333.1	333.0	332.9	332.8	332.7	332.7	332.2
135°	352.1	352.2	352.3	352.4	352.5	352.3	352.1	351.8	351.6	351.5	350.9
137.5°	371.4	371.5	371.6	371.7	371.8	371.6	371.4	371.2	371.0	370.9	370.4
140°	391.1	391.1	391.1	391.1	391.1	390.6	390.1	389.6	389.1	388.8	388.3
142.5°	409.0	408.9	408.8	408.7	408.6	408.3	408.0	407.7	407.4	407.2	406.7
145°	426.9	426.8	426.7	426.6	426.5	425.9	425.3	424.7	424.1	423.8	423.4
147.5°	443.0	442.8	442.6	442.4	442.2	441.8	441.4	441.0	440.6	440.4	439.9
150°	458.1	457.8	457.5	457.2	456.9	456.5	456.1	455.7	455.3	455.1	454.8
152.5°	473.3	472.9	472.4	472.0	471.6	471.1	470.6	470.1	469.6	469.3	469.0
155°	485.6	485.1	484.6	484.1	483.6	483.3	483.0	482.7	482.4	482.2	482.0
157.5°	497.9	497.2	496.5	495.8	495.1	494.9	494.7	494.5	494.3	494.2	494.1
160°	508.2	507.6	506.9	506.3	505.7	505.6	505.5	505.4	505.3	505.2	505.1
162.5°	517.7	517.0	516.3	515.6	514.9	514.8	514.7	514.6	514.5	514.4	514.4
165°	525.5	524.8	524.1	523.4	522.7	522.7	522.7	522.7	522.7	522.7	522.8
167.5°	532.4	531.7	531.0	530.3	529.6	529.6	529.6	529.6	529.6	529.6	529.8
170°	538.0	537.3	536.6	535.8	535.1	535.2	535.3	535.4	535.5	535.6	535.8
172.5°	542.1	541.4	540.7	540.0	539.3	539.4	539.5	539.6	539.7	539.7	539.9
175°	544.9	544.2	543.5	542.7	542.0	542.2	542.4	542.7	542.9	543.0	543.1
177.5°	546.3	545.7	545.1	544.5	543.9	544.1	544.3	544.5	544.7	544.8	545.0
180°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3

TEST NUMBER: P1029657

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1340.7	1340.7	1340.7	1340.7
2.5°	1316.0	1316.0	1331.4	1347.9
5°	1287.1	1294.3	1319.1	1341.7
7.5°	1259.3	1271.7	1302.6	1331.4
10°	1225.3	1241.8	1279.9	1313.9
12.5°	1192.3	1207.8	1252.1	1290.2
15°	1145.9	1165.5	1212.9	1260.3
17.5°	1099.6	1119.1	1176.9	1232.5
20°	1044.9	1070.7	1135.6	1209.8
22.5°	994.4	1026.4	1098.5	1158.3
25°	938.8	988.3	1055.3	1132.5
27.5°	889.3	938.8	1006.8	1085.1
30°	833.7	884.2	954.3	1026.4
32.5°	780.1	826.5	894.5	983.1
35°	724.5	768.8	834.7	924.4
37.5°	674.0	717.2	789.4	871.8
40°	624.5	669.8	731.7	814.1
42.5°	578.1	618.3	674.0	756.4
45°	535.9	564.7	616.2	693.5
47.5°	491.6	517.3	564.7	642.0
50°	450.3	472.0	513.2	585.3
52.5°	410.1	428.7	466.8	524.5
55°	374.1	391.6	419.4	476.1
57.5°	337.0	350.4	377.2	422.5
60°	300.9	313.3	334.9	372.0
62.5°	264.8	275.1	295.8	325.6
65°	232.9	241.1	256.6	282.4
67.5°	202.0	207.1	219.5	240.1
70°	172.1	176.2	186.5	203.0
72.5°	140.2	144.3	155.6	166.9
75°	113.4	114.4	122.6	131.9
77.5°	88.6	87.6	93.8	101.0
80°	60.8	63.9	69.0	72.1
82.5°	41.2	42.3	44.3	46.4
85°	22.7	23.7	23.7	26.8
87.5°	9.3	10.3	10.3	11.3
90°	4.2	2.9	1.7	0.5
92.5°	12.6	11.7	10.9	10.1
95°	27.0	25.9	24.9	23.9
97.5°	42.8	41.9	40.9	40.0
100°	60.9	60.0	59.2	58.4
102.5°	79.6	79.0	78.4	77.8
105°	99.8	99.5	99.2	98.9
107.5°	121.3	120.9	120.5	120.1
110°	142.2	141.5	140.9	140.3

TEST NUMBER: P1029657

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	164.3	163.6	163.0	162.4
115°	185.9	185.3	184.7	184.1
117.5°	208.2	207.3	206.5	205.7
120°	229.8	228.9	228.1	227.3
122.5°	250.2	249.1	248.1	247.1
125°	270.5	269.6	268.7	267.8
127.5°	291.4	290.3	289.1	288.0
130°	310.9	309.6	308.2	306.9
132.5°	331.2	330.1	329.1	328.1
135°	349.8	348.7	347.6	346.5
137.5°	369.5	368.6	367.6	366.7
140°	387.4	386.5	385.6	384.7
142.5°	405.8	404.9	404.0	403.1
145°	422.7	422.0	421.3	420.6
147.5°	439.0	438.1	437.1	436.2
150°	454.2	453.5	452.9	452.3
152.5°	468.4	467.8	467.2	466.6
155°	481.7	481.4	481.1	480.8
157.5°	493.9	493.7	493.5	493.3
160°	504.9	504.7	504.5	504.3
162.5°	514.4	514.4	514.4	514.4
165°	522.9	523.0	523.1	523.2
167.5°	530.1	530.4	530.7	531.0
170°	536.1	536.4	536.7	537.0
172.5°	540.2	540.5	540.8	541.1
175°	543.4	543.7	544.0	544.3
177.5°	545.3	545.6	545.9	546.2
180°	545.3	545.3	545.3	545.3

(END OF REPORT)