

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: P1029216

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029216
REPORT IS A COMBINATION OF REPORTS P985209 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D435UB2750-4F0-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

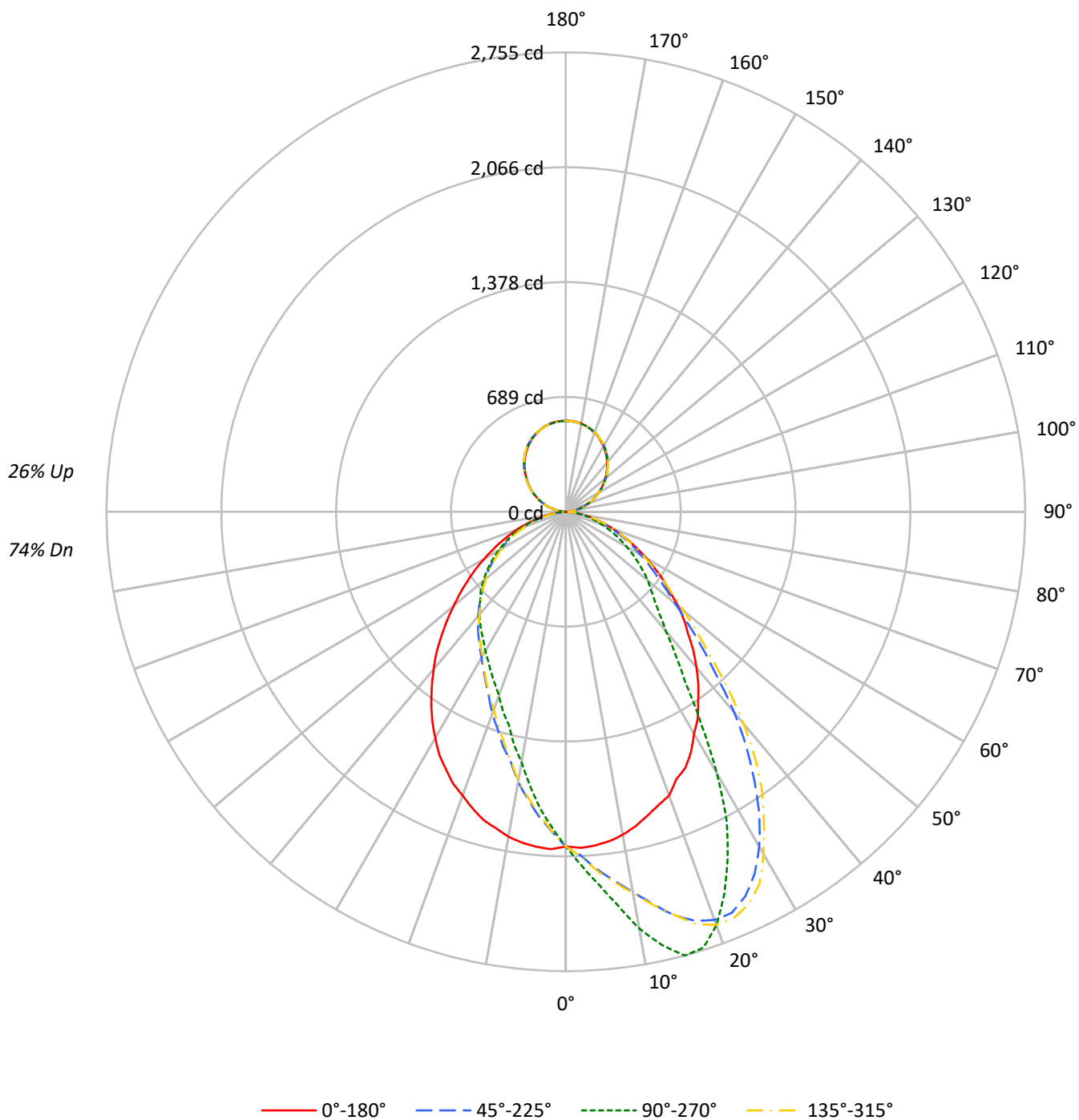
Lumens per Lamp: N/A
Luminaire Lumens: 5954.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79
1	104	100	96	93	99	95	92	89	86	84	81	78	76	74	71	69	68
2	95	88	82	77	90	84	79	74	76	72	69	69	66	63	63	60	58
3	87	78	71	65	83	75	68	63	68	63	59	62	58	54	56	53	50
4	80	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44
5	74	63	55	49	70	60	53	47	55	49	44	51	46	42	46	42	39
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	42	38	35
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	31	28
9	56	43	36	31	53	42	35	30	39	33	28	36	31	27	33	29	26
10	52	40	33	28	50	39	32	27	36	30	26	33	28	25	31	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31769	31769	31769	31769
5°	31845	33874	31967	26949
10°	31476	36978	31673	22219
15°	30711	39004	31139	18715
20°	30233	36622	30233	16267
25°	29270	31461	29403	14546
30°	27685	24732	28213	13176
35°	26279	17101	26719	12055
40°	24665	12912	24947	11162
45°	22674	10611	23046	10198
50°	20953	9313	20991	9335
55°	18991	7935	19113	8399
60°	16899	6629	17133	7330
65°	15027	5391	15300	6259
70°	13161	4230	13494	5049
75°	11048	3070	11479	3662
80°	8622	1947	9237	2174
85°	5664	981	6102	727

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 32840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.2
10°-20°	556.4	9.3
20°-30°	807.5	13.6
30°-40°	851.2	14.3
40°-50°	753.3	12.7
50°-60°	601.5	10.1
60°-70°	408.5	6.9
70°-80°	209.0	3.5
80°-90°	50.9	0.9
90°-100°	33.7	0.6
100°-110°	107.2	1.8
110°-120°	183.5	3.1
120°-130°	241.3	4.1
130°-140°	270.9	4.5
140°-150°	265.6	4.5
150°-160°	222.8	3.7
160°-170°	147.8	2.5
170°-180°	51.6	0.9
0°-30°	1555.0	26.1
0°-40°	2406.3	40.4
0°-60°	3761.0	63.2
0°-90°	4429.6	74.4
90°-120°	324.4	5.4
90°-150°	1102.2	18.5
90°-180°	1524.0	25.6
0°-180°	5954.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2007	2007	2007	2007	2007	
5°	2008	2242	2016	1783	2008	190
15°	1887	2755	1913	1322	1887	533
25°	1695	2295	1703	1061	1695	775
35°	1384	1250	1407	881	1384	866
45°	1038	753	1055	724	1038	805
55°	713	529	717	560	713	636
65°	423	326	430	378	423	420
75°	198	160	205	191	198	212
85°	40	42	43	31	40	47
90°	0	16	0	16	0	4
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°	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0
2.5°	2017.8	2022.4	2030.1	2031.7	2047.1	2059.4	2073.3	2073.3	2077.9	2076.4	2064.1
5°	2008.5	2022.4	2042.5	2059.4	2087.2	2099.5	2118.0	2131.9	2144.3	2153.5	2152.0
7.5°	1993.1	2017.8	2047.1	2079.5	2116.5	2138.1	2164.3	2189.0	2206.0	2221.4	2232.2
10°	1966.9	2008.5	2048.6	2091.8	2139.6	2169.0	2199.8	2232.2	2258.4	2287.7	2315.5
12.5°	1931.4	1991.5	2040.9	2098.0	2156.6	2189.0	2238.4	2263.1	2314.0	2388.0	2408.1
15°	1886.6	1968.4	2014.7	2087.2	2164.3	2190.6	2258.4	2298.5	2403.4	2449.7	2505.2
17.5°	1845.0	1936.0	1997.7	2081.0	2156.6	2207.5	2273.9	2355.6	2443.5	2509.9	2571.6
20°	1811.1	1899.0	1973.0	2065.6	2161.2	2226.0	2295.4	2394.2	2489.8	2557.7	2605.5
22.5°	1733.9	1846.5	1932.9	2036.3	2152.0	2241.5	2307.8	2415.8	2519.1	2560.8	2602.4
25°	1695.4	1792.5	1892.8	2010.1	2145.8	2252.3	2309.3	2429.7	2520.7	2536.1	2545.4
27.5°	1624.4	1733.9	1851.2	1985.4	2144.3	2233.7	2306.2	2415.8	2488.3	2477.5	2449.7
30°	1536.5	1670.7	1800.3	1945.3	2122.7	2219.9	2287.7	2388.0	2425.0	2369.5	2320.1
32.5°	1471.7	1598.2	1741.6	1909.8	2098.0	2190.6	2256.9	2335.6	2343.3	2243.0	2159.7
35°	1383.7	1524.1	1686.1	1863.5	2056.3	2139.6	2201.3	2249.2	2212.1	2071.8	1973.0
37.5°	1305.1	1443.9	1616.7	1797.2	1999.3	2081.0	2130.4	2138.1	2047.1	1923.7	1778.7
40°	1218.7	1362.2	1542.6	1732.4	1936.0	2007.0	2037.8	2014.7	1883.6	1740.1	1572.0
42.5°	1132.3	1274.2	1468.6	1663.0	1855.8	1916.0	1928.3	1865.1	1704.6	1536.5	1342.1
45°	1038.2	1186.3	1380.7	1576.6	1763.2	1797.2	1798.7	1707.7	1518.0	1342.1	1161.6
47.5°	961.1	1098.4	1291.2	1487.1	1644.5	1667.6	1658.3	1553.4	1346.7	1149.3	991.9
50°	876.2	1007.3	1198.6	1391.5	1525.7	1531.8	1508.7	1359.1	1157.0	976.5	851.5
52.5°	785.2	917.9	1093.7	1278.8	1399.2	1389.9	1345.2	1184.7	995.0	845.4	749.7
55°	712.7	829.9	995.0	1175.5	1260.3	1234.1	1184.7	1021.2	871.6	745.1	661.8
57.5°	632.5	735.8	897.8	1055.2	1104.5	1079.8	1030.5	877.8	738.9	643.3	587.7
60°	556.9	651.0	792.9	924.0	962.6	936.4	879.3	742.0	641.7	561.5	519.9
62.5°	487.5	569.2	688.0	808.3	823.8	797.5	748.2	637.1	550.7	487.5	456.6
65°	422.7	499.8	595.5	686.5	700.4	672.6	621.7	541.5	469.0	428.9	399.5
67.5°	359.4	421.1	506.0	572.3	580.0	553.8	512.2	447.4	402.6	359.4	337.8
70°	303.9	350.2	416.5	470.5	473.6	448.9	427.3	368.7	334.8	303.9	286.9
72.5°	249.9	282.3	333.2	373.3	374.9	359.4	339.4	302.4	273.0	251.5	234.5
75°	197.5	225.2	256.1	291.6	290.0	277.7	262.2	239.1	214.4	200.5	192.8
77.5°	151.2	168.1	192.8	216.0	216.0	209.8	200.5	183.6	168.1	154.3	146.6
80°	108.0	118.8	138.8	146.6	149.6	148.1	140.4	128.0	121.9	111.1	108.0
82.5°	69.4	77.1	86.4	94.1	98.7	95.6	94.1	87.9	78.7	75.6	72.5
85°	40.1	43.2	47.8	52.4	54.0	52.4	55.5	50.9	46.3	46.3	44.7
87.5°	17.0	18.5	21.6	21.6	23.1	23.1	21.6	23.1	23.1	21.6	20.1
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°	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0
2.5°	2085.7	2087.2	2090.3	2105.7	2113.4	2115.0	2108.8	2122.7	2127.3	2122.7	2119.6
5°	2184.4	2193.6	2212.1	2232.2	2230.7	2232.2	2241.5	2250.7	2253.8	2241.5	2246.1
7.5°	2270.8	2289.3	2309.3	2340.2	2340.2	2355.6	2361.8	2369.5	2388.0	2378.8	2375.7
10°	2369.5	2394.2	2431.2	2480.6	2482.1	2497.5	2513.0	2537.6	2545.4	2539.2	2542.3
12.5°	2492.9	2540.7	2543.8	2597.8	2622.5	2625.6	2650.3	2645.6	2661.1	2661.1	2687.3
15°	2546.9	2620.9	2662.6	2715.0	2730.5	2712.0	2732.0	2753.6	2755.2	2755.2	2753.6
17.5°	2644.1	2673.4	2715.0	2742.8	2749.0	2749.0	2750.5	2759.8	2753.6	2741.3	2750.5
20°	2664.1	2676.5	2691.9	2688.8	2691.9	2676.5	2661.1	2645.6	2647.2	2639.5	2662.6
22.5°	2627.1	2624.0	2588.6	2565.4	2565.4	2534.6	2505.2	2491.4	2477.5	2482.1	2489.8
25°	2534.6	2486.7	2443.5	2409.6	2401.9	2352.5	2312.4	2300.1	2276.9	2295.4	2298.5
27.5°	2386.5	2332.5	2263.1	2233.7	2193.6	2173.6	2145.8	2108.8	2061.0	2088.7	2084.1
30°	2227.6	2147.4	2090.3	2019.3	1956.1	1951.4	1899.0	1837.3	1812.6	1812.6	1826.5
32.5°	2050.2	1943.7	1860.4	1760.2	1698.4	1672.2	1609.0	1547.3	1561.2	1514.9	1531.8
35°	1843.5	1703.1	1598.2	1501.0	1454.7	1423.9	1342.1	1308.2	1271.1	1249.5	1289.6
37.5°	1646.0	1484.0	1349.8	1243.4	1226.4	1170.9	1115.3	1093.7	1072.1	1081.4	1079.8
40°	1405.3	1261.9	1141.6	1058.3	1028.9	1002.7	965.7	939.5	925.6	933.3	934.8
42.5°	1187.8	1067.5	978.0	919.4	894.7	876.2	857.7	836.1	831.5	831.5	837.7
45°	1019.7	921.0	860.8	813.0	799.1	785.2	771.3	762.1	759.0	752.8	757.4
47.5°	885.5	806.8	769.8	734.3	718.9	715.8	703.4	698.8	692.6	691.1	692.6
50°	772.9	723.5	689.6	669.5	658.7	654.1	647.9	638.7	635.6	643.3	640.2
52.5°	694.2	647.9	629.4	609.3	603.2	597.0	587.7	589.3	587.7	584.7	584.7
55°	615.5	586.2	567.7	552.3	550.7	544.6	536.8	533.8	532.2	529.1	533.8
57.5°	552.3	529.1	512.2	498.3	492.1	492.1	484.4	478.2	478.2	476.7	478.2
60°	489.0	465.9	455.1	441.2	436.6	435.0	430.4	427.3	422.7	422.7	422.7
62.5°	430.4	411.9	399.5	387.2	388.7	381.0	374.9	371.8	371.8	373.3	373.3
65°	374.9	362.5	347.1	336.3	333.2	331.7	328.6	327.0	322.4	325.5	325.5
67.5°	324.0	307.0	297.7	293.1	288.5	286.9	283.8	280.8	279.2	277.7	280.8
70°	273.0	259.2	251.5	248.4	243.7	242.2	240.7	236.0	237.6	239.1	240.7
72.5°	226.8	214.4	212.9	203.6	203.6	203.6	197.5	200.5	199.0	195.9	199.0
75°	178.9	172.8	169.7	165.1	166.6	165.1	163.5	158.9	158.9	160.4	162.0
77.5°	141.9	135.8	134.2	129.6	126.5	129.6	126.5	125.0	125.0	126.5	126.5
80°	104.9	101.8	97.2	97.2	97.2	95.6	95.6	95.6	94.1	92.6	94.1
82.5°	69.4	69.4	67.9	66.3	67.9	64.8	66.3	66.3	66.3	66.3	66.3
85°	44.7	43.2	43.2	41.7	41.7	41.7	43.2	40.1	40.1	41.7	41.7
87.5°	20.1	20.1	20.1	21.6	20.1	20.1	20.1	21.6	20.1	20.1	20.1
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

TEST NUMBER: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

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

TEST NUMBER: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0
2.5°	2127.3	2116.5	2107.2	2108.8	2116.5	2110.3	2094.9	2074.9	2067.1	2057.9	2067.1
5°	2255.3	2246.1	2227.6	2229.1	2224.5	2218.3	2193.6	2162.8	2162.8	2138.1	2135.0
7.5°	2381.8	2368.0	2355.6	2352.5	2335.6	2323.2	2301.6	2258.4	2241.5	2212.1	2195.2
10°	2523.8	2513.0	2499.1	2482.1	2472.9	2451.3	2415.8	2352.5	2321.7	2281.6	2252.3
12.5°	2667.2	2665.7	2634.8	2600.9	2599.3	2565.4	2540.7	2455.9	2414.2	2360.2	2290.8
15°	2758.2	2750.5	2733.6	2716.6	2721.2	2684.2	2628.7	2528.4	2500.6	2435.8	2361.8
17.5°	2756.7	2756.7	2752.1	2749.0	2744.4	2733.6	2702.7	2636.4	2591.6	2509.9	2440.5
20°	2668.8	2688.8	2693.5	2691.9	2707.3	2715.0	2713.5	2671.9	2636.4	2563.9	2492.9
22.5°	2492.9	2539.2	2559.2	2571.6	2604.0	2620.9	2661.1	2645.6	2636.4	2582.4	2522.2
25°	2329.4	2344.8	2405.0	2408.1	2452.8	2494.5	2534.6	2560.8	2594.7	2574.7	2523.8
27.5°	2118.0	2153.5	2196.7	2229.1	2238.4	2323.2	2389.6	2438.9	2516.0	2522.2	2505.2
30°	1878.9	1895.9	1966.9	2010.1	2059.4	2121.1	2216.8	2301.6	2371.0	2434.3	2455.9
32.5°	1587.4	1656.8	1698.4	1750.9	1794.1	1903.6	2020.9	2130.4	2210.6	2317.0	2363.3
35°	1320.5	1374.5	1445.5	1467.1	1545.7	1638.3	1791.0	1931.4	2053.3	2161.2	2255.3
37.5°	1099.9	1143.1	1218.7	1252.6	1298.9	1417.7	1545.7	1720.0	1866.6	1999.3	2116.5
40°	948.7	981.1	1038.2	1049.0	1087.6	1195.5	1298.9	1462.4	1656.8	1835.7	1963.8
42.5°	845.4	860.8	899.4	913.2	937.9	1010.4	1103.0	1257.3	1437.7	1622.9	1803.3
45°	771.3	782.1	805.3	817.6	848.5	880.8	956.4	1079.8	1221.8	1408.4	1602.8
47.5°	705.0	718.9	728.1	735.8	752.8	788.3	837.7	928.7	1064.4	1235.7	1423.9
50°	649.5	654.1	671.0	672.6	683.4	706.5	752.8	808.3	916.3	1055.2	1237.2
52.5°	593.9	598.5	609.3	620.1	624.8	643.3	674.1	720.4	800.6	910.2	1072.1
55°	538.4	544.6	555.4	563.1	567.7	583.1	601.6	646.4	709.6	786.7	919.4
57.5°	482.8	496.7	499.8	504.4	512.2	529.1	546.1	572.3	621.7	692.6	789.8
60°	430.4	435.0	445.8	450.5	458.2	467.4	489.0	509.1	544.6	600.1	688.0
62.5°	376.4	387.2	391.8	396.5	402.6	413.4	427.3	448.9	479.8	524.5	593.9
65°	330.1	331.7	340.9	347.1	353.3	361.0	374.9	394.9	413.4	455.1	506.0
67.5°	285.4	288.5	291.6	297.7	305.4	313.2	325.5	336.3	359.4	387.2	427.3
70°	242.2	242.2	249.9	254.5	253.0	262.2	271.5	283.8	300.8	327.0	359.4
72.5°	203.6	202.1	208.3	209.8	212.9	219.1	225.2	237.6	246.8	266.9	291.6
75°	162.0	165.1	168.1	168.1	172.8	177.4	183.6	189.7	200.5	212.9	231.4
77.5°	128.0	128.0	131.1	132.7	137.3	135.8	141.9	148.1	155.8	166.6	180.5
80°	94.1	97.2	97.2	97.2	98.7	100.3	106.4	111.1	115.7	123.4	129.6
82.5°	66.3	66.3	69.4	69.4	69.4	72.5	72.5	74.0	77.1	81.8	86.4
85°	41.7	41.7	41.7	43.2	41.7	43.2	46.3	44.7	46.3	49.4	49.4
87.5°	20.1	20.1	20.1	20.1	20.1	21.6	20.1	21.6	23.1	23.1	23.1
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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CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

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

TEST NUMBER: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0
2.5°	2059.4	2051.7	2047.1	2050.2	2040.9	2017.8	2017.8	2025.5	2016.2	2007.0	1993.1
5°	2116.5	2101.1	2091.8	2090.3	2068.7	2031.7	2023.9	2016.2	1996.2	1974.6	1951.4
7.5°	2172.0	2144.3	2128.8	2118.0	2087.2	2039.4	2019.3	2002.3	1970.0	1937.6	1908.2
10°	2218.3	2178.2	2159.7	2142.7	2102.6	2042.5	2010.1	1979.2	1937.6	1895.9	1858.9
12.5°	2255.3	2209.1	2185.9	2161.2	2111.9	2033.2	1993.1	1943.7	1902.1	1846.5	1809.5
15°	2317.0	2221.4	2199.8	2176.7	2125.8	2017.8	1968.4	1912.9	1855.8	1781.8	1741.6
17.5°	2366.4	2238.4	2236.8	2187.5	2121.1	2011.6	1936.0	1863.5	1801.8	1727.8	1664.5
20°	2395.7	2264.6	2239.9	2189.0	2105.7	1970.0	1891.3	1811.1	1744.7	1655.3	1592.0
22.5°	2420.4	2301.6	2236.8	2175.1	2073.3	1956.1	1840.4	1764.8	1673.8	1576.6	1516.4
25°	2429.7	2309.3	2241.5	2170.5	2050.2	1916.0	1784.8	1703.1	1601.3	1513.3	1431.6
27.5°	2431.2	2307.8	2224.5	2150.4	2017.8	1863.5	1729.3	1642.9	1530.3	1428.5	1346.7
30°	2415.8	2290.8	2215.2	2135.0	1986.9	1815.7	1661.4	1565.8	1445.5	1343.6	1258.8
32.5°	2369.5	2256.9	2195.2	2107.2	1946.8	1749.4	1596.6	1490.2	1363.7	1263.4	1181.7
35°	2292.4	2215.2	2147.4	2065.6	1894.4	1687.6	1531.8	1406.9	1278.8	1183.2	1106.1
37.5°	2196.7	2155.1	2091.8	2011.6	1834.2	1632.1	1459.3	1320.5	1192.5	1099.9	1024.3
40°	2067.1	2077.9	2016.2	1943.7	1763.2	1556.5	1365.2	1232.6	1112.2	1025.9	951.8
42.5°	1926.8	1971.5	1936.0	1866.6	1684.6	1473.2	1295.8	1149.3	1032.0	942.6	880.8
45°	1775.6	1852.7	1831.1	1780.2	1602.8	1385.3	1197.1	1055.2	951.8	865.4	811.4
47.5°	1610.5	1720.0	1720.0	1683.0	1511.8	1297.4	1112.2	967.2	865.4	803.7	751.3
50°	1442.4	1565.8	1585.8	1561.2	1410.0	1197.1	1008.9	877.8	789.8	729.7	691.1
52.5°	1266.5	1410.0	1447.0	1434.7	1302.0	1101.4	924.0	796.0	715.8	663.3	629.4
55°	1098.4	1265.0	1305.1	1309.7	1186.3	996.5	829.9	717.3	640.2	604.7	575.4
57.5°	939.5	1099.9	1144.6	1152.4	1069.1	900.9	742.0	643.3	573.9	544.6	521.4
60°	803.7	937.9	996.5	1013.5	941.0	789.8	660.3	564.6	512.2	484.4	462.8
62.5°	692.6	800.6	862.3	867.0	834.6	692.6	575.4	495.2	450.5	425.8	415.0
65°	584.7	681.8	718.9	737.4	711.2	600.1	496.7	430.4	394.9	373.3	362.5
67.5°	498.3	560.0	590.8	615.5	589.3	506.0	422.7	368.7	342.5	320.9	314.7
70°	408.8	459.7	482.8	507.5	484.4	421.1	361.0	311.6	288.5	271.5	263.8
72.5°	327.0	367.1	388.7	404.2	390.3	337.8	288.5	254.5	237.6	225.2	220.6
75°	259.2	286.9	299.3	310.1	303.9	263.8	232.9	205.2	189.7	178.9	175.9
77.5°	197.5	217.5	231.4	234.5	226.8	200.5	174.3	157.3	145.0	138.8	135.8
80°	140.4	152.7	160.4	165.1	157.3	146.6	128.0	115.7	104.9	97.2	95.6
82.5°	94.1	100.3	106.4	104.9	101.8	92.6	81.8	75.6	71.0	64.8	64.8
85°	54.0	55.5	58.6	60.2	58.6	52.4	46.3	43.2	40.1	35.5	35.5
87.5°	23.1	24.7	24.7	26.2	23.1	23.1	20.1	17.0	17.0	15.4	13.9
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: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-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: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0
2.5°	1985.4	1993.1	1991.5	1976.1	1959.2	1945.3	1919.0	1922.1	1912.9	1914.4	1923.7
5°	1936.0	1936.0	1929.8	1908.2	1880.5	1865.1	1835.7	1828.0	1809.5	1808.0	1806.4
7.5°	1883.6	1875.9	1868.1	1837.3	1803.3	1778.7	1738.6	1729.3	1710.8	1698.4	1692.3
10°	1821.9	1811.1	1795.6	1760.2	1718.5	1687.6	1646.0	1633.7	1598.2	1582.7	1573.5
12.5°	1754.0	1747.8	1723.1	1693.8	1625.9	1592.0	1531.8	1544.2	1508.7	1477.9	1473.2
15°	1686.1	1663.0	1649.1	1601.3	1519.5	1504.1	1456.3	1431.6	1399.2	1374.5	1374.5
17.5°	1619.8	1584.3	1553.4	1502.5	1442.4	1399.2	1363.7	1351.4	1311.2	1286.6	1281.9
20°	1531.8	1491.7	1484.0	1411.5	1369.9	1322.0	1288.1	1257.3	1227.9	1217.1	1209.4
22.5°	1448.5	1402.3	1389.9	1328.2	1286.6	1238.7	1204.8	1183.2	1161.6	1153.9	1140.0
25°	1359.1	1331.3	1312.8	1246.5	1200.2	1155.4	1132.3	1116.9	1096.8	1095.3	1086.0
27.5°	1272.7	1246.5	1227.9	1164.7	1130.8	1089.1	1070.6	1053.6	1042.8	1038.2	1033.6
30°	1198.6	1169.3	1147.7	1101.4	1059.8	1025.9	1010.4	999.6	993.5	985.7	984.2
32.5°	1116.9	1099.9	1070.6	1035.1	1002.7	970.3	961.1	953.4	944.1	941.0	939.5
35°	1047.5	1024.3	1005.8	965.7	951.8	924.0	913.2	907.1	894.7	891.6	888.6
37.5°	979.6	958.0	937.9	913.2	887.0	871.6	865.4	856.2	850.0	851.5	848.5
40°	911.7	894.7	879.3	853.1	837.7	829.9	817.6	808.3	805.3	806.8	805.3
42.5°	845.4	829.9	820.7	800.6	785.2	777.5	769.8	760.5	765.1	765.1	769.8
45°	785.2	771.3	765.1	749.7	740.5	728.1	720.4	718.9	725.0	723.5	723.5
47.5°	723.5	718.9	711.2	697.3	684.9	677.2	675.7	675.7	681.8	684.9	683.4
50°	675.7	666.4	657.2	646.4	637.1	634.0	629.4	632.5	638.7	638.7	641.7
52.5°	615.5	609.3	606.3	597.0	590.8	590.8	590.8	592.4	597.0	601.6	600.1
55°	563.1	558.4	555.4	550.7	543.0	544.6	543.0	546.1	550.7	555.4	558.4
57.5°	507.5	506.0	502.9	495.2	495.2	493.6	498.3	499.8	507.5	510.6	515.2
60°	458.2	453.5	453.5	447.4	447.4	447.4	452.0	456.6	462.8	464.3	467.4
62.5°	405.7	405.7	404.2	399.5	399.5	404.2	405.7	411.9	415.0	415.0	419.6
65°	356.4	354.8	353.3	354.8	356.4	356.4	361.0	364.1	367.1	368.7	370.2
67.5°	307.0	305.4	308.5	307.0	310.1	316.2	314.7	319.3	324.0	324.0	325.5
70°	260.7	263.8	262.2	265.3	263.8	266.9	271.5	273.0	273.0	274.6	279.2
72.5°	217.5	217.5	217.5	216.0	217.5	220.6	223.7	225.2	228.3	229.9	234.5
75°	175.9	175.9	172.8	175.9	175.9	178.9	182.0	182.0	182.0	185.1	189.7
77.5°	132.7	134.2	132.7	135.8	135.8	137.3	140.4	138.8	141.9	143.5	145.0
80°	97.2	95.6	95.6	95.6	97.2	97.2	100.3	101.8	101.8	106.4	103.4
82.5°	61.7	63.2	61.7	63.2	63.2	64.8	63.2	64.8	66.3	69.4	67.9
85°	35.5	33.9	33.9	35.5	33.9	33.9	35.5	33.9	35.5	33.9	35.5
87.5°	13.9	12.3	12.3	12.3	12.3	10.8	10.8	9.3	9.3	9.3	7.7
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: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0
2.5°	1912.9	1917.5	1906.7	1903.6	1906.7	1895.9	1899.0	1902.1	1902.1	1906.7	1909.8
5°	1801.8	1795.6	1784.8	1781.8	1778.7	1783.3	1780.2	1784.8	1786.4	1797.2	1798.7
7.5°	1692.3	1683.0	1673.8	1664.5	1661.4	1653.7	1661.4	1661.4	1672.2	1669.1	1676.9
10°	1562.7	1561.2	1548.8	1544.2	1538.0	1525.7	1542.6	1538.0	1545.7	1559.6	1562.7
12.5°	1467.1	1450.1	1457.8	1436.2	1443.9	1431.6	1433.1	1433.1	1445.5	1447.0	1443.9
15°	1376.0	1362.2	1342.1	1332.8	1328.2	1322.0	1342.1	1343.6	1334.4	1356.0	1348.3
17.5°	1283.5	1283.5	1265.0	1260.3	1248.0	1254.2	1251.1	1252.6	1249.5	1265.0	1272.7
20°	1203.3	1195.5	1189.4	1190.9	1175.5	1172.4	1169.3	1172.4	1183.2	1194.0	1197.1
22.5°	1138.5	1133.8	1118.4	1121.5	1109.2	1113.8	1110.7	1118.4	1120.0	1120.0	1130.8
25°	1076.8	1070.6	1072.1	1066.0	1061.3	1061.3	1056.7	1061.3	1067.5	1070.6	1072.1
27.5°	1030.5	1025.9	1018.1	1013.5	1016.6	1008.9	1015.1	1019.7	1019.7	1016.6	1019.7
30°	974.9	978.0	978.0	962.6	968.8	965.7	970.3	973.4	973.4	974.9	971.9
32.5°	937.9	928.7	927.1	925.6	925.6	919.4	919.4	924.0	925.6	927.1	931.8
35°	888.6	888.6	880.8	885.5	879.3	880.8	879.3	880.8	883.9	879.3	883.9
37.5°	843.8	845.4	842.3	845.4	846.9	843.8	840.7	846.9	843.8	843.8	840.7
40°	805.3	803.7	805.3	805.3	805.3	806.8	803.7	803.7	803.7	800.6	797.5
42.5°	772.9	763.6	766.7	768.2	763.6	763.6	765.1	763.6	768.2	759.0	759.0
45°	726.6	723.5	725.0	725.0	728.1	723.5	726.6	728.1	723.5	722.0	718.9
47.5°	684.9	688.0	684.9	688.0	688.0	691.1	684.9	686.5	688.0	681.8	677.2
50°	643.3	643.3	647.9	646.4	647.9	644.8	644.8	643.3	644.8	641.7	637.1
52.5°	604.7	600.1	607.8	606.3	604.7	603.2	601.6	603.2	600.1	597.0	597.0
55°	556.9	556.9	561.5	563.1	563.1	560.0	556.9	558.4	556.9	555.4	553.8
57.5°	518.3	512.2	515.2	516.8	516.8	512.2	515.2	512.2	512.2	513.7	509.1
60°	469.0	469.0	465.9	470.5	470.5	467.4	467.4	469.0	465.9	464.3	462.8
62.5°	416.5	418.1	422.7	424.2	425.8	422.7	419.6	421.1	421.1	416.5	418.1
65°	371.8	374.9	381.0	379.5	376.4	377.9	374.9	376.4	371.8	373.3	368.7
67.5°	328.6	327.0	328.6	328.6	331.7	330.1	327.0	327.0	325.5	330.1	325.5
70°	282.3	282.3	282.3	282.3	283.8	285.4	282.3	279.2	280.8	277.7	276.1
72.5°	234.5	236.0	234.5	237.6	232.9	236.0	236.0	234.5	232.9	232.9	232.9
75°	189.7	192.8	188.2	189.7	188.2	191.3	189.7	189.7	186.7	185.1	186.7
77.5°	145.0	146.6	143.5	145.0	143.5	145.0	145.0	143.5	143.5	143.5	143.5
80°	103.4	104.9	103.4	101.8	100.3	103.4	100.3	101.8	103.4	101.8	104.9
82.5°	66.3	66.3	64.8	66.3	63.2	63.2	64.8	64.8	63.2	66.3	63.2
85°	32.4	32.4	35.5	32.4	30.9	30.9	30.9	32.4	30.9	33.9	32.4
87.5°	7.7	6.2	7.7	7.7	6.2	6.2	7.7	6.2	7.7	9.3	6.2
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: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-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: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0
2.5°	1905.2	1917.5	1912.9	1895.9	1916.0	1916.0	1929.8	1929.8	1946.8	1953.0	1962.2
5°	1797.2	1806.4	1814.1	1806.4	1820.3	1841.9	1854.3	1865.1	1888.2	1897.4	1911.3
7.5°	1681.5	1698.4	1706.2	1706.2	1729.3	1754.0	1778.7	1794.1	1826.5	1838.8	1852.7
10°	1568.9	1588.9	1604.3	1602.8	1641.4	1656.8	1687.6	1723.1	1755.5	1774.0	1794.1
12.5°	1450.1	1460.9	1482.5	1513.3	1522.6	1550.4	1585.8	1630.6	1689.2	1706.2	1735.5
15°	1351.4	1380.7	1397.6	1411.5	1433.1	1459.3	1497.9	1541.1	1599.7	1636.7	1667.6
17.5°	1268.1	1306.6	1317.4	1314.3	1342.1	1382.2	1426.9	1459.3	1511.8	1556.5	1585.8
20°	1200.2	1215.6	1234.1	1241.8	1263.4	1306.6	1349.8	1386.8	1430.0	1465.5	1499.4
22.5°	1132.3	1144.6	1160.1	1173.9	1190.9	1215.6	1257.3	1303.5	1345.2	1379.1	1417.7
25°	1076.8	1084.5	1098.4	1109.2	1127.7	1144.6	1173.9	1224.9	1274.2	1294.3	1328.2
27.5°	1022.8	1028.9	1038.2	1050.5	1059.8	1076.8	1103.0	1144.6	1195.5	1215.6	1261.9
30°	974.9	979.6	988.8	995.0	999.6	1019.7	1039.7	1072.1	1110.7	1138.5	1172.4
32.5°	930.2	934.8	944.1	945.6	951.8	962.6	981.1	1010.4	1044.4	1067.5	1096.8
35°	880.8	883.9	893.2	896.3	900.9	910.2	924.0	945.6	976.5	993.5	1019.7
37.5°	842.3	840.7	846.9	851.5	857.7	862.3	867.0	888.6	911.7	927.1	947.2
40°	800.6	797.5	799.1	805.3	808.3	814.5	814.5	836.1	851.5	863.9	879.3
42.5°	759.0	757.4	754.4	757.4	760.5	762.1	763.6	779.0	794.5	805.3	822.2
45°	717.3	715.8	712.7	714.2	714.2	717.3	722.0	728.1	738.9	748.2	757.4
47.5°	678.8	675.7	671.0	669.5	672.6	672.6	672.6	678.8	689.6	692.6	701.9
50°	638.7	634.0	627.9	624.8	624.8	623.2	626.3	627.9	637.1	640.2	647.9
52.5°	595.5	592.4	586.2	580.0	581.6	578.5	580.0	581.6	584.7	589.3	593.9
55°	552.3	546.1	541.5	539.9	535.3	535.3	530.7	536.8	535.3	536.8	543.0
57.5°	510.6	504.4	496.7	493.6	489.0	487.5	484.4	482.8	484.4	489.0	493.6
60°	461.2	458.2	453.5	448.9	445.8	441.2	438.1	438.1	436.6	436.6	438.1
62.5°	413.4	411.9	405.7	404.2	401.1	398.0	393.4	390.3	390.3	393.4	394.9
65°	367.1	365.6	361.0	359.4	351.7	348.6	347.1	345.6	342.5	342.5	342.5
67.5°	324.0	319.3	319.3	311.6	305.4	302.4	299.3	297.7	297.7	297.7	299.3
70°	276.1	276.1	271.5	266.9	260.7	262.2	257.6	253.0	253.0	249.9	251.5
72.5°	229.9	228.3	223.7	222.1	217.5	212.9	209.8	212.9	208.3	206.7	208.3
75°	185.1	183.6	180.5	177.4	178.9	174.3	169.7	168.1	168.1	165.1	165.1
77.5°	141.9	145.0	138.8	137.3	134.2	131.1	129.6	128.0	128.0	128.0	131.1
80°	98.7	100.3	100.3	97.2	98.7	94.1	94.1	94.1	89.5	91.0	92.6
82.5°	63.2	63.2	61.7	63.2	61.7	61.7	60.2	60.2	58.6	58.6	60.2
85°	35.5	33.9	32.4	35.5	33.9	33.9	32.4	32.4	32.4	32.4	32.4
87.5°	7.7	9.3	9.3	9.3	9.3	10.8	10.8	10.8	12.3	12.3	12.3
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: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-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: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2007.0	2007.0	2007.0	2007.0
2.5°	1970.0	1970.0	1993.1	2017.8
5°	1926.8	1937.6	1974.6	2008.5
7.5°	1885.1	1903.6	1949.9	1993.1
10°	1834.2	1858.9	1916.0	1966.9
12.5°	1784.8	1808.0	1874.3	1931.4
15°	1715.4	1744.7	1815.7	1886.6
17.5°	1646.0	1675.3	1761.7	1845.0
20°	1564.2	1602.8	1700.0	1811.1
22.5°	1488.6	1536.5	1644.5	1733.9
25°	1405.3	1479.4	1579.7	1695.4
27.5°	1331.3	1405.3	1507.2	1624.4
30°	1248.0	1323.6	1428.5	1536.5
32.5°	1167.8	1237.2	1339.0	1471.7
35°	1084.5	1150.8	1249.5	1383.7
37.5°	1008.9	1073.7	1181.7	1305.1
40°	934.8	1002.7	1095.3	1218.7
42.5°	865.4	925.6	1008.9	1132.3
45°	802.2	845.4	922.5	1038.2
47.5°	735.8	774.4	845.4	961.1
50°	674.1	706.5	768.2	876.2
52.5°	614.0	641.7	698.8	785.2
55°	560.0	586.2	627.9	712.7
57.5°	504.4	524.5	564.6	632.5
60°	450.5	469.0	501.4	556.9
62.5°	396.5	411.9	442.7	487.5
65°	348.6	361.0	384.1	422.7
67.5°	302.4	310.1	328.6	359.4
70°	257.6	263.8	279.2	303.9
72.5°	209.8	216.0	232.9	249.9
75°	169.7	171.2	183.6	197.5
77.5°	132.7	131.1	140.4	151.2
80°	91.0	95.6	103.4	108.0
82.5°	61.7	63.2	66.3	69.4
85°	33.9	35.5	35.5	40.1
87.5°	13.9	15.4	15.4	17.0
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: P1029216

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-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)