

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: P1029217

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029217
REPORT IS A COMBINATION OF REPORTS P985210 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

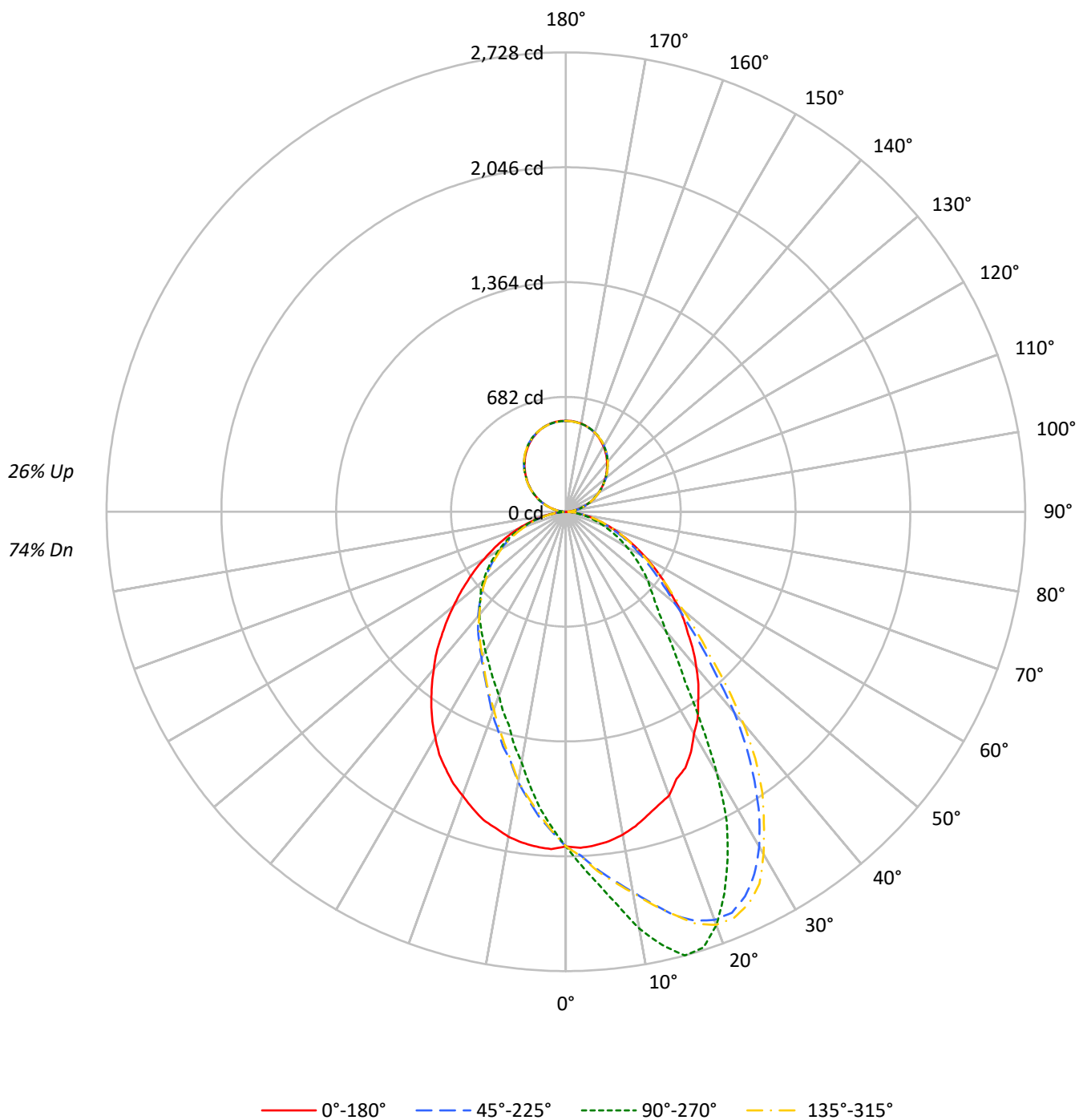
Lumens per Lamp: N/A
Luminaire Lumens: 5895.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	31453	31453	31453	31453
5°	31529	33537	31650	26682
10°	31163	36611	31358	21997
15°	30407	38616	30830	18529
20°	29933	36257	29933	16106
25°	28978	31149	29111	14402
30°	27409	24486	27932	13045
35°	26018	16932	26453	11936
40°	24420	12783	24698	11051
45°	22449	10505	22816	10096
50°	20745	9220	20781	9242
55°	18802	7857	18924	8315
60°	16732	6563	16963	7257
65°	14877	5338	15148	6198
70°	13031	4187	13360	4999
75°	10936	3039	11361	3625
80°	8535	1926	9141	2151
85°	5608	969	6046	717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 32514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	3.2
10°-20°	550.9	9.3
20°-30°	799.5	13.6
30°-40°	842.8	14.3
40°-50°	745.8	12.7
50°-60°	595.5	10.1
60°-70°	404.5	6.9
70°-80°	207.0	3.5
80°-90°	50.4	0.9
90°-100°	33.4	0.6
100°-110°	106.2	1.8
110°-120°	181.7	3.1
120°-130°	238.9	4.1
130°-140°	268.2	4.5
140°-150°	263.0	4.5
150°-160°	220.6	3.7
160°-170°	146.3	2.5
170°-180°	51.1	0.9
0°-30°	1539.6	26.1
0°-40°	2382.4	40.4
0°-60°	3723.7	63.2
0°-90°	4385.5	74.4
90°-120°	321.2	5.4
90°-150°	1091.4	18.5
90°-180°	1509.0	25.6
0°-180°	5895.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1987	1987	1987	1987	1987	
5°	1989	2219	1996	1766	1989	189
15°	1868	2728	1894	1309	1868	528
25°	1678	2273	1686	1051	1678	767
35°	1370	1237	1393	872	1370	857
45°	1028	745	1045	716	1028	797
55°	706	524	710	554	706	630
65°	418	322	426	374	418	416
75°	196	159	203	189	196	210
85°	40	41	43	30	40	46
90°	0	16	0	16	0	4
95°	24	28	24	28	24	26
105°	98	101	98	101	98	103
115°	182	182	182	182	182	180
125°	265	266	265	266	265	237
135°	343	347	343	347	343	265
145°	416	421	416	421	416	260
155°	476	480	476	480	476	219
165°	518	518	518	518	518	146
175°	539	537	539	537	539	51
180°	540	540	540	540	540	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1997.7	2002.3	2009.9	2011.5	2026.7	2039.0	2052.7	2052.7	2057.3	2055.8	2043.5
5°	1988.6	2002.3	2022.2	2039.0	2066.5	2078.7	2097.0	2110.7	2123.0	2132.1	2130.6
7.5°	1973.3	1997.7	2026.7	2058.8	2095.5	2116.9	2142.8	2167.3	2184.1	2199.3	2210.0
10°	1947.3	1988.6	2028.3	2071.0	2118.4	2147.4	2177.9	2210.0	2236.0	2265.0	2292.5
12.5°	1912.2	1971.8	2020.6	2077.1	2135.2	2167.3	2216.1	2240.6	2291.0	2364.3	2384.1
15°	1867.9	1948.9	1994.7	2066.5	2142.8	2168.8	2236.0	2275.7	2379.6	2425.4	2480.4
17.5°	1826.7	1916.8	1977.9	2060.3	2135.2	2185.6	2251.3	2332.2	2419.3	2484.9	2546.0
20°	1793.1	1880.1	1953.4	2045.1	2139.8	2203.9	2272.6	2370.4	2465.1	2532.3	2579.6
22.5°	1716.7	1828.2	1913.7	2016.1	2130.6	2219.2	2284.9	2391.8	2494.1	2535.3	2576.6
25°	1678.5	1774.7	1874.0	1990.1	2124.5	2229.9	2286.4	2405.5	2495.6	2510.9	2520.1
27.5°	1608.3	1716.7	1832.8	1965.7	2123.0	2211.5	2283.3	2391.8	2463.6	2452.9	2425.4
30°	1521.2	1654.1	1782.4	1925.9	2101.6	2197.8	2265.0	2364.3	2400.9	2346.0	2297.1
32.5°	1457.1	1582.3	1724.3	1890.8	2077.1	2168.8	2234.5	2312.4	2320.0	2220.7	2138.2
35°	1370.0	1509.0	1669.4	1845.0	2035.9	2118.4	2179.5	2226.8	2190.2	2051.2	1953.4
37.5°	1292.1	1429.6	1600.6	1779.3	1979.4	2060.3	2109.2	2116.9	2026.7	1904.6	1761.0
40°	1206.6	1348.6	1527.3	1715.2	1916.8	1987.0	2017.6	1994.7	1864.8	1722.8	1556.3
42.5°	1121.0	1261.6	1454.0	1646.4	1837.4	1896.9	1909.1	1846.5	1687.7	1521.2	1328.8
45°	1027.9	1174.5	1366.9	1560.9	1745.7	1779.3	1780.8	1690.7	1502.9	1328.8	1150.1
47.5°	951.5	1087.4	1278.4	1472.3	1628.1	1651.0	1641.9	1538.0	1333.3	1137.8	982.1
50°	867.5	997.3	1186.7	1377.6	1510.5	1516.6	1493.7	1345.6	1145.5	966.8	843.1
52.5°	777.4	908.8	1082.9	1266.1	1385.3	1376.1	1331.8	1173.0	985.1	837.0	742.3
55°	705.6	821.7	985.1	1163.8	1247.8	1221.8	1173.0	1011.1	862.9	737.7	655.2
57.5°	626.2	728.5	888.9	1044.7	1093.6	1069.1	1020.2	869.0	731.6	636.9	581.9
60°	551.4	644.5	785.0	914.9	953.0	927.1	870.6	734.6	635.4	555.9	514.7
62.5°	482.6	563.6	681.2	800.3	815.6	789.6	740.7	630.8	545.3	482.6	452.1
65°	418.5	494.8	589.5	679.7	693.4	665.9	615.5	536.1	464.3	424.6	395.6
67.5°	355.9	417.0	501.0	566.6	574.3	548.3	507.1	442.9	398.6	355.9	334.5
70°	300.9	346.7	412.4	465.8	468.9	444.4	423.1	365.0	331.4	300.9	284.1
72.5°	247.4	279.5	329.9	369.6	371.1	355.9	336.0	299.4	270.3	249.0	232.2
75°	195.5	223.0	253.5	288.7	287.1	274.9	259.6	236.7	212.3	198.6	190.9
77.5°	149.7	166.5	190.9	213.8	213.8	207.7	198.6	181.8	166.5	152.7	145.1
80°	106.9	117.6	137.5	145.1	148.1	146.6	139.0	126.8	120.7	110.0	106.9
82.5°	68.7	76.4	85.5	93.2	97.7	94.7	93.2	87.1	77.9	74.8	71.8
85°	39.7	42.8	47.3	51.9	53.5	51.9	55.0	50.4	45.8	45.8	44.3
87.5°	16.8	18.3	21.4	21.4	22.9	22.9	21.4	22.9	22.9	21.4	19.9
90°	0.5	1.7	2.9	4.1	5.3	5.9	7.0	9.2	11.5	13.7	15.9
92.5°	10.0	10.8	11.6	12.5	13.3	13.7	13.7	13.8	13.9	14.0	14.1
95°	23.7	24.7	25.7	26.7	27.7	28.2	28.3	28.5	28.8	29.0	29.2
97.5°	39.6	40.5	41.4	42.3	43.2	43.7	43.9	44.3	44.8	45.2	45.6
100°	57.9	58.7	59.5	60.3	61.1	61.5	61.7	62.0	62.3	62.6	62.9
102.5°	77.0	77.6	78.2	78.8	79.4	79.7	79.9	80.3	80.8	81.2	81.6
105°	98.0	98.3	98.6	98.9	99.2	99.3	99.4	99.6	99.8	100.0	100.2
107.5°	118.9	119.3	119.7	120.1	120.5	120.7	120.7	120.7	120.7	120.7	120.7
110°	139.0	139.6	140.2	140.8	141.4	141.7	141.7	141.7	141.7	141.7	141.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	160.8	161.4	162.0	162.7	163.3	163.6	163.5	163.4	163.3	163.2	163.1
115°	182.2	182.8	183.4	184.1	184.7	185.0	184.9	184.7	184.5	184.3	184.1
117.5°	203.7	204.5	205.3	206.1	206.9	207.3	207.0	206.5	206.0	205.5	205.0
120°	225.1	225.9	226.7	227.5	228.3	228.7	228.3	227.5	226.7	225.9	225.1
122.5°	244.7	245.7	246.7	247.7	248.7	249.2	248.9	248.4	247.9	247.4	246.9
125°	265.2	266.1	267.0	267.9	268.8	269.3	269.1	268.8	268.5	268.2	267.9
127.5°	285.2	286.3	287.4	288.5	289.6	290.2	290.0	289.6	289.2	288.8	288.4
130°	303.9	305.2	306.5	307.8	309.1	309.8	309.7	309.5	309.3	309.1	308.9
132.5°	324.9	325.9	326.9	327.9	328.9	329.4	329.5	329.6	329.7	329.8	329.9
135°	343.1	344.2	345.3	346.4	347.5	348.1	348.2	348.4	348.6	348.8	349.0
137.5°	363.1	364.0	364.9	365.8	366.7	367.2	367.3	367.5	367.7	367.9	368.1
140°	380.9	381.8	382.7	383.6	384.5	385.0	385.3	385.8	386.3	386.8	387.3
142.5°	399.1	400.0	400.9	401.8	402.7	403.2	403.4	403.7	404.0	404.3	404.6
145°	416.4	417.1	417.8	418.5	419.2	419.6	419.9	420.5	421.2	421.8	422.4
147.5°	431.9	432.8	433.7	434.6	435.5	436.0	436.2	436.6	437.0	437.4	437.8
150°	447.9	448.5	449.1	449.7	450.3	450.6	450.8	451.2	451.6	452.0	452.4
152.5°	462.0	462.6	463.2	463.8	464.4	464.7	465.0	465.5	466.0	466.5	467.0
155°	476.1	476.4	476.7	477.0	477.3	477.5	477.6	477.9	478.2	478.5	478.8
157.5°	488.4	488.6	488.8	489.0	489.2	489.3	489.4	489.6	489.8	490.0	490.2
160°	499.4	499.6	499.8	500.0	500.2	500.3	500.3	500.4	500.5	500.6	500.7
162.5°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.5	509.6	509.7	509.8
165°	518.0	517.9	517.8	517.7	517.6	517.6	517.6	517.6	517.6	517.6	517.6
167.5°	525.8	525.5	525.2	524.9	524.6	524.4	524.4	524.4	524.4	524.4	524.4
170°	531.7	531.4	531.1	530.8	530.5	530.3	530.3	530.2	530.1	530.0	529.9
172.5°	535.8	535.5	535.2	534.9	534.6	534.4	534.4	534.3	534.2	534.1	534.0
175°	539.0	538.7	538.4	538.1	537.8	537.6	537.5	537.3	537.1	536.9	536.7
177.5°	540.8	540.5	540.2	539.9	539.6	539.4	539.3	539.1	538.9	538.7	538.5
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2064.9	2066.5	2069.5	2084.8	2092.4	2093.9	2087.8	2101.6	2106.2	2101.6	2098.5
5°	2162.7	2171.8	2190.2	2210.0	2208.5	2210.0	2219.2	2228.3	2231.4	2219.2	2223.8
7.5°	2248.2	2266.5	2286.4	2316.9	2316.9	2332.2	2338.3	2346.0	2364.3	2355.1	2352.1
10°	2346.0	2370.4	2407.0	2455.9	2457.4	2472.7	2488.0	2512.4	2520.1	2514.0	2517.0
12.5°	2468.1	2515.5	2518.5	2572.0	2596.4	2599.5	2623.9	2619.3	2634.6	2634.6	2660.6
15°	2521.6	2594.9	2636.1	2688.1	2703.3	2685.0	2704.9	2726.3	2727.8	2727.8	2726.3
17.5°	2617.8	2646.8	2688.1	2715.6	2721.7	2721.7	2723.2	2732.4	2726.3	2714.0	2723.2
20°	2637.7	2649.9	2665.2	2662.1	2665.2	2649.9	2634.6	2619.3	2620.9	2613.2	2636.1
22.5°	2601.0	2598.0	2562.8	2539.9	2539.9	2509.4	2480.4	2466.6	2452.9	2457.4	2465.1
25°	2509.4	2462.0	2419.3	2385.7	2378.0	2329.2	2289.4	2277.2	2254.3	2272.6	2275.7
27.5°	2362.8	2309.3	2240.6	2211.5	2171.8	2152.0	2124.5	2087.8	2040.5	2068.0	2063.4
30°	2205.4	2126.0	2069.5	1999.3	1936.6	1932.0	1880.1	1819.0	1794.6	1794.6	1808.3
32.5°	2029.8	1924.4	1841.9	1742.7	1681.6	1655.6	1593.0	1531.9	1545.6	1499.8	1516.6
35°	1825.1	1686.2	1582.3	1486.1	1440.3	1409.7	1328.8	1295.2	1258.5	1237.1	1276.8
37.5°	1629.6	1469.3	1336.4	1231.0	1214.2	1159.2	1104.2	1082.9	1061.5	1070.6	1069.1
40°	1391.4	1249.3	1130.2	1047.7	1018.7	992.8	956.1	930.1	916.4	924.0	925.6
42.5°	1176.0	1056.9	968.3	910.3	885.8	867.5	849.2	827.8	823.2	823.2	829.3
45°	1009.6	911.8	852.2	804.9	791.1	777.4	763.7	754.5	751.4	745.3	749.9
47.5°	876.7	798.8	762.1	727.0	711.7	708.7	696.5	691.9	685.8	684.2	685.8
50°	765.2	716.3	682.7	662.9	652.2	647.6	641.5	632.3	629.3	636.9	633.8
52.5°	687.3	641.5	623.1	603.3	597.2	591.1	581.9	583.4	581.9	578.9	578.9
55°	609.4	580.4	562.1	546.8	545.3	539.1	531.5	528.4	526.9	523.9	528.4
57.5°	546.8	523.9	507.1	493.3	487.2	487.2	479.6	473.5	473.5	471.9	473.5
60°	484.2	461.2	450.6	436.8	432.2	430.7	426.1	423.1	418.5	418.5	418.5
62.5°	426.1	407.8	395.6	383.4	384.9	377.2	371.1	368.1	368.1	369.6	369.6
65°	371.1	358.9	343.6	333.0	329.9	328.4	325.3	323.8	319.2	322.3	322.3
67.5°	320.7	303.9	294.8	290.2	285.6	284.1	281.0	278.0	276.4	274.9	278.0
70°	270.3	256.6	249.0	245.9	241.3	239.8	238.3	233.7	235.2	236.7	238.3
72.5°	224.5	212.3	210.8	201.6	201.6	201.6	195.5	198.6	197.0	194.0	197.0
75°	177.2	171.1	168.0	163.4	164.9	163.4	161.9	157.3	157.3	158.8	160.4
77.5°	140.5	134.4	132.9	128.3	125.2	128.3	125.2	123.7	123.7	125.2	125.2
80°	103.9	100.8	96.2	96.2	96.2	94.7	94.7	94.7	93.2	91.6	93.2
82.5°	68.7	68.7	67.2	65.7	67.2	64.1	65.7	65.7	65.7	65.7	65.7
85°	44.3	42.8	42.8	41.2	41.2	41.2	42.8	39.7	39.7	41.2	41.2
87.5°	19.9	19.9	19.9	21.4	19.9	19.9	19.9	21.4	19.9	19.9	19.9
90°	15.7	15.5	15.3	15.1	15.0	15.1	15.2	15.3	15.4	15.5	15.4
92.5°	14.2	14.3	14.4	14.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6
95°	29.2	29.2	29.2	29.2	29.2	29.1	28.9	28.6	28.4	28.2	28.4
97.5°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
100°	62.9	62.9	62.9	62.9	62.9	62.8	62.7	62.6	62.5	62.4	62.5
102.5°	81.7	81.8	81.9	82.0	82.0	82.0	81.9	81.8	81.7	81.6	81.7
105°	100.4	100.6	100.8	101.0	101.1	101.1	101.1	101.1	101.1	101.1	101.1
107.5°	120.8	120.9	121.0	121.1	121.2	120.9	120.4	119.9	119.4	118.9	119.4
110°	141.7	141.7	141.7	141.7	141.7	141.5	141.2	140.9	140.6	140.3	140.6

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	162.8	162.5	162.2	161.9	161.7	161.6	161.4	161.2	161.0	160.8	161.0
115°	184.0	183.9	183.8	183.7	183.6	183.4	183.1	182.8	182.5	182.2	182.5
117.5°	204.7	204.4	204.1	203.8	203.7	203.5	203.2	202.9	202.6	202.3	202.6
120°	225.1	225.1	225.1	225.1	225.1	224.9	224.6	224.3	224.0	223.7	224.0
122.5°	246.6	246.3	246.0	245.7	245.6	245.5	245.3	245.1	244.9	244.7	244.9
125°	267.6	267.3	267.0	266.7	266.5	266.5	266.4	266.3	266.2	266.1	266.2
127.5°	288.0	287.6	287.2	286.8	286.6	286.4	286.1	285.8	285.5	285.2	285.5
130°	308.7	308.5	308.3	308.1	308.0	307.8	307.4	307.0	306.6	306.2	306.6
132.5°	329.4	328.9	328.4	327.9	327.6	327.4	327.1	326.8	326.5	326.2	326.5
135°	348.9	348.8	348.7	348.6	348.5	348.4	348.1	347.8	347.5	347.2	347.5
137.5°	368.0	367.9	367.8	367.7	367.7	367.5	367.1	366.7	366.3	365.9	366.3
140°	387.3	387.3	387.3	387.3	387.3	387.1	386.7	386.2	385.8	385.4	385.8
142.5°	404.7	404.8	404.9	405.0	405.0	404.8	404.4	404.0	403.6	403.2	403.6
145°	422.5	422.6	422.7	422.8	422.8	422.6	422.2	421.8	421.4	421.0	421.4
147.5°	438.0	438.2	438.5	438.7	438.8	438.6	438.2	437.7	437.3	436.9	437.3
150°	452.7	453.0	453.3	453.6	453.8	453.6	453.3	453.0	452.7	452.4	452.7
152.5°	467.4	467.8	468.2	468.6	468.8	468.6	468.2	467.8	467.4	467.0	467.4
155°	479.3	479.8	480.3	480.8	481.1	481.0	480.7	480.4	480.1	479.8	480.1
157.5°	490.9	491.6	492.3	493.0	493.4	493.2	492.7	492.2	491.7	491.2	491.7
160°	501.3	501.9	502.6	503.2	503.5	503.3	502.9	502.4	502.0	501.6	502.0
162.5°	510.5	511.2	511.9	512.6	513.0	512.7	512.2	511.7	511.2	510.7	511.2
165°	518.3	519.0	519.7	520.4	520.8	520.5	520.0	519.5	519.0	518.5	519.0
167.5°	525.1	525.8	526.5	527.2	527.6	527.3	526.8	526.3	525.8	525.3	525.8
170°	530.6	531.3	532.0	532.7	533.1	532.8	532.2	531.5	530.9	530.3	530.9
172.5°	534.7	535.4	536.1	536.8	537.2	536.9	536.3	535.6	535.0	534.4	535.0
175°	537.4	538.1	538.8	539.5	539.9	539.6	539.0	538.4	537.8	537.2	537.8
177.5°	539.1	539.7	540.4	541.0	541.3	541.0	540.4	539.7	539.1	538.5	539.1
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2106.2	2095.5	2086.3	2087.8	2095.5	2089.4	2074.1	2054.2	2046.6	2037.4	2046.6
5°	2232.9	2223.8	2205.4	2207.0	2202.4	2196.3	2171.8	2141.3	2141.3	2116.9	2113.8
7.5°	2358.2	2344.4	2332.2	2329.2	2312.4	2300.1	2278.7	2236.0	2219.2	2190.2	2173.4
10°	2498.7	2488.0	2474.2	2457.4	2448.3	2426.9	2391.8	2329.2	2298.6	2258.9	2229.9
12.5°	2640.7	2639.2	2608.6	2575.0	2573.5	2539.9	2515.5	2431.5	2390.2	2336.8	2268.1
15°	2730.8	2723.2	2706.4	2689.6	2694.2	2657.5	2602.5	2503.3	2475.8	2411.6	2338.3
17.5°	2729.3	2729.3	2724.7	2721.7	2717.1	2706.4	2675.9	2610.2	2565.9	2484.9	2416.2
20°	2642.2	2662.1	2666.7	2665.2	2680.4	2688.1	2686.5	2645.3	2610.2	2538.4	2468.1
22.5°	2468.1	2514.0	2533.8	2546.0	2578.1	2594.9	2634.6	2619.3	2610.2	2556.7	2497.2
25°	2306.2	2321.5	2381.1	2384.1	2428.4	2469.7	2509.4	2535.3	2568.9	2549.1	2498.7
27.5°	2097.0	2132.1	2174.9	2207.0	2216.1	2300.1	2365.8	2414.7	2491.0	2497.2	2480.4
30°	1860.3	1877.1	1947.3	1990.1	2039.0	2100.1	2194.7	2278.7	2347.5	2410.1	2431.5
32.5°	1571.6	1640.3	1681.6	1733.5	1776.3	1884.7	2000.8	2109.2	2188.6	2294.0	2339.8
35°	1307.4	1360.8	1431.1	1452.5	1530.4	1622.0	1773.2	1912.2	2032.9	2139.8	2232.9
37.5°	1089.0	1131.7	1206.6	1240.2	1286.0	1403.6	1530.4	1703.0	1848.0	1979.4	2095.5
40°	939.3	971.4	1027.9	1038.6	1076.8	1183.7	1286.0	1447.9	1640.3	1817.5	1944.3
42.5°	837.0	852.2	890.4	904.2	928.6	1000.4	1092.0	1244.8	1423.5	1606.7	1785.4
45°	763.7	774.3	797.3	809.5	840.0	872.1	946.9	1069.1	1209.6	1394.4	1586.9
47.5°	698.0	711.7	720.9	728.5	745.3	780.5	829.3	919.4	1053.8	1223.4	1409.7
50°	643.0	647.6	664.4	665.9	676.6	699.5	745.3	800.3	907.2	1044.7	1224.9
52.5°	588.0	592.6	603.3	614.0	618.6	636.9	667.4	713.3	792.7	901.1	1061.5
55°	533.0	539.1	549.8	557.5	562.1	577.3	595.7	639.9	702.6	778.9	910.3
57.5°	478.0	491.8	494.8	499.4	507.1	523.9	540.7	566.6	615.5	685.8	782.0
60°	426.1	430.7	441.4	446.0	453.6	462.8	484.2	504.0	539.1	594.1	681.2
62.5°	372.7	383.4	387.9	392.5	398.6	409.3	423.1	444.4	475.0	519.3	588.0
65°	326.8	328.4	337.5	343.6	349.8	357.4	371.1	391.0	409.3	450.6	501.0
67.5°	282.6	285.6	288.7	294.8	302.4	310.0	322.3	333.0	355.9	383.4	423.1
70°	239.8	239.8	247.4	252.0	250.5	259.6	268.8	281.0	297.8	323.8	355.9
72.5°	201.6	200.1	206.2	207.7	210.8	216.9	223.0	235.2	244.4	264.2	288.7
75°	160.4	163.4	166.5	166.5	171.1	175.6	181.8	187.9	198.6	210.8	229.1
77.5°	126.8	126.8	129.8	131.3	135.9	134.4	140.5	146.6	154.3	164.9	178.7
80°	93.2	96.2	96.2	96.2	97.7	99.3	105.4	110.0	114.5	122.2	128.3
82.5°	65.7	65.7	68.7	68.7	68.7	71.8	71.8	73.3	76.4	80.9	85.5
85°	41.2	41.2	41.2	42.8	41.2	42.8	45.8	44.3	45.8	48.9	48.9
87.5°	19.9	19.9	19.9	19.9	19.9	21.4	19.9	21.4	22.9	22.9	22.9
90°	15.3	15.2	15.1	15.0	15.1	15.3	15.5	15.7	15.9	13.7	11.5
92.5°	14.6	14.6	14.6	14.6	14.5	14.4	14.3	14.2	14.1	14.0	13.9
95°	28.6	28.9	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.0	28.8
97.5°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.2	44.8
100°	62.6	62.7	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.6	62.3
102.5°	81.8	81.9	82.0	82.0	82.0	81.9	81.8	81.7	81.6	81.2	80.8
105°	101.1	101.1	101.1	101.1	101.0	100.8	100.6	100.4	100.2	100.0	99.8
107.5°	119.9	120.4	120.9	121.2	121.1	121.0	120.9	120.8	120.7	120.7	120.7
110°	140.9	141.2	141.5	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7

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CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	161.2	161.4	161.6	161.7	161.9	162.2	162.5	162.8	163.1	163.2	163.3
115°	182.8	183.1	183.4	183.6	183.7	183.8	183.9	184.0	184.1	184.3	184.5
117.5°	202.9	203.2	203.5	203.7	203.8	204.1	204.4	204.7	205.0	205.5	206.0
120°	224.3	224.6	224.9	225.1	225.1	225.1	225.1	225.1	225.1	225.9	226.7
122.5°	245.1	245.3	245.5	245.6	245.7	246.0	246.3	246.6	246.9	247.4	247.9
125°	266.3	266.4	266.5	266.5	266.7	267.0	267.3	267.6	267.9	268.2	268.5
127.5°	285.8	286.1	286.4	286.6	286.8	287.2	287.6	288.0	288.4	288.8	289.2
130°	307.0	307.4	307.8	308.0	308.1	308.3	308.5	308.7	308.9	309.1	309.3
132.5°	326.8	327.1	327.4	327.6	327.9	328.4	328.9	329.4	329.9	329.8	329.7
135°	347.8	348.1	348.4	348.5	348.6	348.7	348.8	348.9	349.0	348.8	348.6
137.5°	366.7	367.1	367.5	367.7	367.7	367.8	367.9	368.0	368.1	367.9	367.7
140°	386.2	386.7	387.1	387.3	387.3	387.3	387.3	387.3	387.3	386.8	386.3
142.5°	404.0	404.4	404.8	405.0	405.0	404.9	404.8	404.7	404.6	404.3	404.0
145°	421.8	422.2	422.6	422.8	422.8	422.7	422.6	422.5	422.4	421.8	421.2
147.5°	437.7	438.2	438.6	438.8	438.7	438.5	438.2	438.0	437.8	437.4	437.0
150°	453.0	453.3	453.6	453.8	453.6	453.3	453.0	452.7	452.4	452.0	451.6
152.5°	467.8	468.2	468.6	468.8	468.6	468.2	467.8	467.4	467.0	466.5	466.0
155°	480.4	480.7	481.0	481.1	480.8	480.3	479.8	479.3	478.8	478.5	478.2
157.5°	492.2	492.7	493.2	493.4	493.0	492.3	491.6	490.9	490.2	490.0	489.8
160°	502.4	502.9	503.3	503.5	503.2	502.6	501.9	501.3	500.7	500.6	500.5
162.5°	511.7	512.2	512.7	513.0	512.6	511.9	511.2	510.5	509.8	509.7	509.6
165°	519.5	520.0	520.5	520.8	520.4	519.7	519.0	518.3	517.6	517.6	517.6
167.5°	526.3	526.8	527.3	527.6	527.2	526.5	525.8	525.1	524.4	524.4	524.4
170°	531.5	532.2	532.8	533.1	532.7	532.0	531.3	530.6	529.9	530.0	530.1
172.5°	535.6	536.3	536.9	537.2	536.8	536.1	535.4	534.7	534.0	534.1	534.2
175°	538.4	539.0	539.6	539.9	539.5	538.8	538.1	537.4	536.7	536.9	537.1
177.5°	539.7	540.4	541.0	541.3	541.0	540.4	539.7	539.1	538.5	538.7	538.9
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2039.0	2031.3	2026.7	2029.8	2020.6	1997.7	1997.7	2005.4	1996.2	1987.0	1973.3
5°	2095.5	2080.2	2071.0	2069.5	2048.1	2011.5	2003.8	1996.2	1976.3	1955.0	1932.0
7.5°	2150.5	2123.0	2107.7	2097.0	2066.5	2019.1	1999.3	1982.5	1950.4	1918.3	1889.3
10°	2196.3	2156.6	2138.2	2121.4	2081.7	2022.2	1990.1	1959.5	1918.3	1877.1	1840.4
12.5°	2232.9	2187.1	2164.2	2139.8	2090.9	2013.0	1973.3	1924.4	1883.2	1828.2	1791.5
15°	2294.0	2199.3	2177.9	2155.0	2104.6	1997.7	1948.9	1893.9	1837.4	1764.0	1724.3
17.5°	2342.9	2216.1	2214.6	2165.7	2100.1	1991.6	1916.8	1845.0	1783.9	1710.6	1648.0
20°	2371.9	2242.1	2217.7	2167.3	2084.8	1950.4	1872.5	1793.1	1727.4	1638.8	1576.2
22.5°	2396.4	2278.7	2214.6	2153.5	2052.7	1936.6	1822.1	1747.2	1657.1	1560.9	1501.3
25°	2405.5	2286.4	2219.2	2148.9	2029.8	1896.9	1767.1	1686.2	1585.3	1498.3	1417.3
27.5°	2407.0	2284.9	2202.4	2129.1	1997.7	1845.0	1712.1	1626.6	1515.1	1414.3	1333.3
30°	2391.8	2268.1	2193.2	2113.8	1967.2	1797.6	1644.9	1550.2	1431.1	1330.3	1246.3
32.5°	2346.0	2234.5	2173.4	2086.3	1927.5	1732.0	1580.8	1475.4	1350.1	1250.9	1169.9
35°	2269.6	2193.2	2126.0	2045.1	1875.5	1670.9	1516.6	1392.9	1266.1	1171.4	1095.1
37.5°	2174.9	2133.7	2071.0	1991.6	1816.0	1615.9	1444.8	1307.4	1180.6	1089.0	1014.1
40°	2046.6	2057.3	1996.2	1924.4	1745.7	1541.1	1351.7	1220.3	1101.2	1015.7	942.4
42.5°	1907.6	1951.9	1916.8	1848.0	1667.8	1458.6	1282.9	1137.8	1021.8	933.2	872.1
45°	1757.9	1834.3	1812.9	1762.5	1586.9	1371.5	1185.2	1044.7	942.4	856.8	803.4
47.5°	1594.5	1703.0	1703.0	1666.3	1496.8	1284.5	1101.2	957.6	856.8	795.7	743.8
50°	1428.0	1550.2	1570.1	1545.6	1396.0	1185.2	998.9	869.0	782.0	722.4	684.2
52.5°	1253.9	1396.0	1432.6	1420.4	1289.1	1090.5	914.9	788.1	708.7	656.7	623.1
55°	1087.4	1252.4	1292.1	1296.7	1174.5	986.6	821.7	710.2	633.8	598.7	569.7
57.5°	930.1	1089.0	1133.3	1140.9	1058.4	892.0	734.6	636.9	568.2	539.1	516.2
60°	795.7	928.6	986.6	1003.4	931.7	782.0	653.7	559.0	507.1	479.6	458.2
62.5°	685.8	792.7	853.8	858.3	826.3	685.8	569.7	490.3	446.0	421.5	410.8
65°	578.9	675.1	711.7	730.1	704.1	594.1	491.8	426.1	391.0	369.6	358.9
67.5°	493.3	554.4	585.0	609.4	583.4	501.0	418.5	365.0	339.1	317.7	311.6
70°	404.7	455.1	478.0	502.5	479.6	417.0	357.4	308.5	285.6	268.8	261.2
72.5°	323.8	363.5	384.9	400.2	386.4	334.5	285.6	252.0	235.2	223.0	218.4
75°	256.6	284.1	296.3	307.0	300.9	261.2	230.6	203.1	187.9	177.2	174.1
77.5°	195.5	215.4	229.1	232.2	224.5	198.6	172.6	155.8	143.6	137.5	134.4
80°	139.0	151.2	158.8	163.4	155.8	145.1	126.8	114.5	103.9	96.2	94.7
82.5°	93.2	99.3	105.4	103.9	100.8	91.6	80.9	74.8	70.3	64.1	64.1
85°	53.5	55.0	58.0	59.6	58.0	51.9	45.8	42.8	39.7	35.1	35.1
87.5°	22.9	24.4	24.4	26.0	22.9	22.9	19.9	16.8	16.8	15.3	13.7
90°	9.2	7.0	5.9	5.3	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	13.8	13.7	13.7	13.3	12.5	11.6	10.8	10.0	10.8	11.6	12.5
95°	28.5	28.3	28.2	27.7	26.7	25.7	24.7	23.7	24.7	25.7	26.7
97.5°	44.3	43.9	43.7	43.2	42.3	41.4	40.5	39.6	40.5	41.4	42.3
100°	62.0	61.7	61.5	61.1	60.3	59.5	58.7	57.9	58.7	59.5	60.3
102.5°	80.3	79.9	79.7	79.4	78.8	78.2	77.6	77.0	77.6	78.2	78.8
105°	99.6	99.4	99.3	99.2	98.9	98.6	98.3	98.0	98.3	98.6	98.9
107.5°	120.7	120.7	120.7	120.5	120.1	119.7	119.3	118.9	119.3	119.7	120.1
110°	141.7	141.7	141.7	141.4	140.8	140.2	139.6	139.0	139.6	140.2	140.8

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	163.4	163.5	163.6	163.3	162.7	162.0	161.4	160.8	161.4	162.0	162.7
115°	184.7	184.9	185.0	184.7	184.1	183.4	182.8	182.2	182.8	183.4	184.1
117.5°	206.5	207.0	207.3	206.9	206.1	205.3	204.5	203.7	204.5	205.3	206.1
120°	227.5	228.3	228.7	228.3	227.5	226.7	225.9	225.1	225.9	226.7	227.5
122.5°	248.4	248.9	249.2	248.7	247.7	246.7	245.7	244.7	245.7	246.7	247.7
125°	268.8	269.1	269.3	268.8	267.9	267.0	266.1	265.2	266.1	267.0	267.9
127.5°	289.6	290.0	290.2	289.6	288.5	287.4	286.3	285.2	286.3	287.4	288.5
130°	309.5	309.7	309.8	309.1	307.8	306.5	305.2	303.9	305.2	306.5	307.8
132.5°	329.6	329.5	329.4	328.9	327.9	326.9	325.9	324.9	325.9	326.9	327.9
135°	348.4	348.2	348.1	347.5	346.4	345.3	344.2	343.1	344.2	345.3	346.4
137.5°	367.5	367.3	367.2	366.7	365.8	364.9	364.0	363.1	364.0	364.9	365.8
140°	385.8	385.3	385.0	384.5	383.6	382.7	381.8	380.9	381.8	382.7	383.6
142.5°	403.7	403.4	403.2	402.7	401.8	400.9	400.0	399.1	400.0	400.9	401.8
145°	420.5	419.9	419.6	419.2	418.5	417.8	417.1	416.4	417.1	417.8	418.5
147.5°	436.6	436.2	436.0	435.5	434.6	433.7	432.8	431.9	432.8	433.7	434.6
150°	451.2	450.8	450.6	450.3	449.7	449.1	448.5	447.9	448.5	449.1	449.7
152.5°	465.5	465.0	464.7	464.4	463.8	463.2	462.6	462.0	462.6	463.2	463.8
155°	477.9	477.6	477.5	477.3	477.0	476.7	476.4	476.1	476.4	476.7	477.0
157.5°	489.6	489.4	489.3	489.2	489.0	488.8	488.6	488.4	488.6	488.8	489.0
160°	500.4	500.3	500.3	500.2	500.0	499.8	499.6	499.4	499.6	499.8	500.0
162.5°	509.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
165°	517.6	517.6	517.6	517.6	517.7	517.8	517.9	518.0	517.9	517.8	517.7
167.5°	524.4	524.4	524.4	524.6	524.9	525.2	525.5	525.8	525.5	525.2	524.9
170°	530.2	530.3	530.3	530.5	530.8	531.1	531.4	531.7	531.4	531.1	530.8
172.5°	534.3	534.4	534.4	534.6	534.9	535.2	535.5	535.8	535.5	535.2	534.9
175°	537.3	537.5	537.6	537.8	538.1	538.4	538.7	539.0	538.7	538.4	538.1
177.5°	539.1	539.3	539.4	539.6	539.9	540.2	540.5	540.8	540.5	540.2	539.9
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1965.7	1973.3	1971.8	1956.5	1939.7	1925.9	1900.0	1903.0	1893.9	1895.4	1904.6
5°	1916.8	1916.8	1910.7	1889.3	1861.8	1846.5	1817.5	1809.9	1791.5	1790.0	1788.5
7.5°	1864.8	1857.2	1849.6	1819.0	1785.4	1761.0	1721.3	1712.1	1693.8	1681.6	1675.5
10°	1803.8	1793.1	1777.8	1742.7	1701.4	1670.9	1629.6	1617.4	1582.3	1567.0	1557.9
12.5°	1736.6	1730.4	1706.0	1677.0	1609.8	1576.2	1516.6	1528.8	1493.7	1463.2	1458.6
15°	1669.4	1646.4	1632.7	1585.3	1504.4	1489.1	1441.8	1417.3	1385.3	1360.8	1360.8
17.5°	1603.7	1568.5	1538.0	1487.6	1428.0	1385.3	1350.1	1337.9	1298.2	1273.8	1269.2
20°	1516.6	1476.9	1469.3	1397.5	1356.3	1308.9	1275.3	1244.8	1215.7	1205.0	1197.4
22.5°	1434.1	1388.3	1376.1	1315.0	1273.8	1226.4	1192.8	1171.4	1150.1	1142.4	1128.7
25°	1345.6	1318.1	1299.7	1234.1	1188.2	1144.0	1121.0	1105.8	1085.9	1084.4	1075.2
27.5°	1260.0	1234.1	1215.7	1153.1	1119.5	1078.3	1060.0	1043.2	1032.5	1027.9	1023.3
30°	1186.7	1157.7	1136.3	1090.5	1049.3	1015.7	1000.4	989.7	983.6	976.0	974.4
32.5°	1105.8	1089.0	1060.0	1024.8	992.8	960.7	951.5	943.9	934.7	931.7	930.1
35°	1037.0	1014.1	995.8	956.1	942.4	914.9	904.2	898.1	885.8	882.8	879.7
37.5°	969.8	948.5	928.6	904.2	878.2	862.9	856.8	847.7	841.5	843.1	840.0
40°	902.6	885.8	870.6	844.6	829.3	821.7	809.5	800.3	797.3	798.8	797.3
42.5°	837.0	821.7	812.5	792.7	777.4	769.8	762.1	753.0	757.5	757.5	762.1
45°	777.4	763.7	757.5	742.3	733.1	720.9	713.3	711.7	717.8	716.3	716.3
47.5°	716.3	711.7	704.1	690.3	678.1	670.5	669.0	669.0	675.1	678.1	676.6
50°	669.0	659.8	650.6	639.9	630.8	627.7	623.1	626.2	632.3	632.3	635.4
52.5°	609.4	603.3	600.2	591.1	585.0	585.0	585.0	586.5	591.1	595.7	594.1
55°	557.5	552.9	549.8	545.3	537.6	539.1	537.6	540.7	545.3	549.8	552.9
57.5°	502.5	501.0	497.9	490.3	490.3	488.7	493.3	494.8	502.5	505.5	510.1
60°	453.6	449.0	449.0	442.9	442.9	442.9	447.5	452.1	458.2	459.7	462.8
62.5°	401.7	401.7	400.2	395.6	395.6	400.2	401.7	407.8	410.8	410.8	415.4
65°	352.8	351.3	349.8	351.3	352.8	352.8	357.4	360.4	363.5	365.0	366.6
67.5°	303.9	302.4	305.5	303.9	307.0	313.1	311.6	316.2	320.7	320.7	322.3
70°	258.1	261.2	259.6	262.7	261.2	264.2	268.8	270.3	270.3	271.9	276.4
72.5°	215.4	215.4	215.4	213.8	215.4	218.4	221.5	223.0	226.0	227.6	232.2
75°	174.1	174.1	171.1	174.1	174.1	177.2	180.2	180.2	180.2	183.3	187.9
77.5°	131.3	132.9	131.3	134.4	134.4	135.9	139.0	137.5	140.5	142.0	143.6
80°	96.2	94.7	94.7	94.7	96.2	96.2	99.3	100.8	100.8	105.4	102.3
82.5°	61.1	62.6	61.1	62.6	62.6	64.1	62.6	64.1	65.7	68.7	67.2
85°	35.1	33.6	33.6	35.1	33.6	33.6	35.1	33.6	35.1	33.6	35.1
87.5°	13.7	12.2	12.2	12.2	12.2	10.7	10.7	9.2	9.2	9.2	7.6
90°	5.3	5.9	7.0	9.2	11.5	13.7	15.9	15.7	15.5	15.3	15.1
92.5°	13.3	13.7	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5
95°	27.7	28.2	28.3	28.5	28.8	29.0	29.2	29.2	29.2	29.2	29.2
97.5°	43.2	43.7	43.9	44.3	44.8	45.2	45.6	45.6	45.6	45.6	45.6
100°	61.1	61.5	61.7	62.0	62.3	62.6	62.9	62.9	62.9	62.9	62.9
102.5°	79.4	79.7	79.9	80.3	80.8	81.2	81.6	81.7	81.8	81.9	82.0
105°	99.2	99.3	99.4	99.6	99.8	100.0	100.2	100.4	100.6	100.8	101.0
107.5°	120.5	120.7	120.7	120.7	120.7	120.7	120.7	120.8	120.9	121.0	121.1
110°	141.4	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	163.3	163.6	163.5	163.4	163.3	163.2	163.1	162.8	162.5	162.2	161.9
115°	184.7	185.0	184.9	184.7	184.5	184.3	184.1	184.0	183.9	183.8	183.7
117.5°	206.9	207.3	207.0	206.5	206.0	205.5	205.0	204.7	204.4	204.1	203.8
120°	228.3	228.7	228.3	227.5	226.7	225.9	225.1	225.1	225.1	225.1	225.1
122.5°	248.7	249.2	248.9	248.4	247.9	247.4	246.9	246.6	246.3	246.0	245.7
125°	268.8	269.3	269.1	268.8	268.5	268.2	267.9	267.6	267.3	267.0	266.7
127.5°	289.6	290.2	290.0	289.6	289.2	288.8	288.4	288.0	287.6	287.2	286.8
130°	309.1	309.8	309.7	309.5	309.3	309.1	308.9	308.7	308.5	308.3	308.1
132.5°	328.9	329.4	329.5	329.6	329.7	329.8	329.9	329.4	328.9	328.4	327.9
135°	347.5	348.1	348.2	348.4	348.6	348.8	349.0	348.9	348.8	348.7	348.6
137.5°	366.7	367.2	367.3	367.5	367.7	367.9	368.1	368.0	367.9	367.8	367.7
140°	384.5	385.0	385.3	385.8	386.3	386.8	387.3	387.3	387.3	387.3	387.3
142.5°	402.7	403.2	403.4	403.7	404.0	404.3	404.6	404.7	404.8	404.9	405.0
145°	419.2	419.6	419.9	420.5	421.2	421.8	422.4	422.5	422.6	422.7	422.8
147.5°	435.5	436.0	436.2	436.6	437.0	437.4	437.8	438.0	438.2	438.5	438.7
150°	450.3	450.6	450.8	451.2	451.6	452.0	452.4	452.7	453.0	453.3	453.6
152.5°	464.4	464.7	465.0	465.5	466.0	466.5	467.0	467.4	467.8	468.2	468.6
155°	477.3	477.5	477.6	477.9	478.2	478.5	478.8	479.3	479.8	480.3	480.8
157.5°	489.2	489.3	489.4	489.6	489.8	490.0	490.2	490.9	491.6	492.3	493.0
160°	500.2	500.3	500.3	500.4	500.5	500.6	500.7	501.3	501.9	502.6	503.2
162.5°	509.4	509.4	509.4	509.5	509.6	509.7	509.8	510.5	511.2	511.9	512.6
165°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	518.3	519.0	519.7	520.4
167.5°	524.6	524.4	524.4	524.4	524.4	524.4	524.4	525.1	525.8	526.5	527.2
170°	530.5	530.3	530.3	530.2	530.1	530.0	529.9	530.6	531.3	532.0	532.7
172.5°	534.6	534.4	534.4	534.3	534.2	534.1	534.0	534.7	535.4	536.1	536.8
175°	537.8	537.6	537.5	537.3	537.1	536.9	536.7	537.4	538.1	538.8	539.5
177.5°	539.6	539.4	539.3	539.1	538.9	538.7	538.5	539.1	539.7	540.4	541.0
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1893.9	1898.4	1887.8	1884.7	1887.8	1877.1	1880.1	1883.2	1883.2	1887.8	1890.8
5°	1783.9	1777.8	1767.1	1764.0	1761.0	1765.6	1762.5	1767.1	1768.6	1779.3	1780.8
7.5°	1675.5	1666.3	1657.1	1648.0	1644.9	1637.3	1644.9	1644.9	1655.6	1652.6	1660.2
10°	1547.2	1545.6	1533.4	1528.8	1522.7	1510.5	1527.3	1522.7	1530.4	1544.1	1547.2
12.5°	1452.5	1435.7	1443.3	1421.9	1429.6	1417.3	1418.9	1418.9	1431.1	1432.6	1429.6
15°	1362.4	1348.6	1328.8	1319.6	1315.0	1308.9	1328.8	1330.3	1321.1	1342.5	1334.9
17.5°	1270.7	1270.7	1252.4	1247.8	1235.6	1241.7	1238.7	1240.2	1237.1	1252.4	1260.0
20°	1191.3	1183.7	1177.6	1179.1	1163.8	1160.8	1157.7	1160.8	1171.4	1182.1	1185.2
22.5°	1127.2	1122.6	1107.3	1110.4	1098.1	1102.7	1099.7	1107.3	1108.8	1108.8	1119.5
25°	1066.1	1060.0	1061.5	1055.4	1050.8	1050.8	1046.2	1050.8	1056.9	1060.0	1061.5
27.5°	1020.2	1015.7	1008.0	1003.4	1006.5	998.9	1005.0	1009.6	1009.6	1006.5	1009.6
30°	965.3	968.3	968.3	953.0	959.2	956.1	960.7	963.7	963.7	965.3	962.2
32.5°	928.6	919.4	917.9	916.4	916.4	910.3	910.3	914.9	916.4	917.9	922.5
35°	879.7	879.7	872.1	876.7	870.6	872.1	870.6	872.1	875.1	870.6	875.1
37.5°	835.4	837.0	833.9	837.0	838.5	835.4	832.4	838.5	835.4	835.4	832.4
40°	797.3	795.7	797.3	797.3	797.3	798.8	795.7	795.7	795.7	792.7	789.6
42.5°	765.2	756.0	759.1	760.6	756.0	756.0	757.5	756.0	760.6	751.4	751.4
45°	719.4	716.3	717.8	717.8	720.9	716.3	719.4	720.9	716.3	714.8	711.7
47.5°	678.1	681.2	678.1	681.2	681.2	684.2	678.1	679.7	681.2	675.1	670.5
50°	636.9	636.9	641.5	639.9	641.5	638.4	638.4	636.9	638.4	635.4	630.8
52.5°	598.7	594.1	601.8	600.2	598.7	597.2	595.7	597.2	594.1	591.1	591.1
55°	551.4	551.4	555.9	557.5	557.5	554.4	551.4	552.9	551.4	549.8	548.3
57.5°	513.2	507.1	510.1	511.6	511.6	507.1	510.1	507.1	507.1	508.6	504.0
60°	464.3	464.3	461.2	465.8	465.8	462.8	462.8	464.3	461.2	459.7	458.2
62.5°	412.4	413.9	418.5	420.0	421.5	418.5	415.4	417.0	417.0	412.4	413.9
65°	368.1	371.1	377.2	375.7	372.7	374.2	371.1	372.7	368.1	369.6	365.0
67.5°	325.3	323.8	325.3	325.3	328.4	326.8	323.8	323.8	322.3	326.8	322.3
70°	279.5	279.5	279.5	279.5	281.0	282.6	279.5	276.4	278.0	274.9	273.4
72.5°	232.2	233.7	232.2	235.2	230.6	233.7	233.7	232.2	230.6	230.6	230.6
75°	187.9	190.9	186.3	187.9	186.3	189.4	187.9	187.9	184.8	183.3	184.8
77.5°	143.6	145.1	142.0	143.6	142.0	143.6	143.6	142.0	142.0	142.0	142.0
80°	102.3	103.9	102.3	100.8	99.3	102.3	99.3	100.8	102.3	100.8	103.9
82.5°	65.7	65.7	64.1	65.7	62.6	62.6	64.1	64.1	62.6	65.7	62.6
85°	32.1	32.1	35.1	32.1	30.5	30.5	30.5	32.1	30.5	33.6	32.1
87.5°	7.6	6.1	7.6	7.6	6.1	6.1	7.6	6.1	7.6	9.2	6.1
90°	15.0	15.1	15.2	15.3	15.4	15.5	15.4	15.3	15.2	15.1	15.0
92.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
95°	29.2	29.1	28.9	28.6	28.4	28.2	28.4	28.6	28.9	29.1	29.2
97.5°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
100°	62.9	62.8	62.7	62.6	62.5	62.4	62.5	62.6	62.7	62.8	62.9
102.5°	82.0	82.0	81.9	81.8	81.7	81.6	81.7	81.8	81.9	82.0	82.0
105°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
107.5°	121.2	120.9	120.4	119.9	119.4	118.9	119.4	119.9	120.4	120.9	121.2
110°	141.7	141.5	141.2	140.9	140.6	140.3	140.6	140.9	141.2	141.5	141.7

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	161.7	161.6	161.4	161.2	161.0	160.8	161.0	161.2	161.4	161.6	161.7
115°	183.6	183.4	183.1	182.8	182.5	182.2	182.5	182.8	183.1	183.4	183.6
117.5°	203.7	203.5	203.2	202.9	202.6	202.3	202.6	202.9	203.2	203.5	203.7
120°	225.1	224.9	224.6	224.3	224.0	223.7	224.0	224.3	224.6	224.9	225.1
122.5°	245.6	245.5	245.3	245.1	244.9	244.7	244.9	245.1	245.3	245.5	245.6
125°	266.5	266.5	266.4	266.3	266.2	266.1	266.2	266.3	266.4	266.5	266.5
127.5°	286.6	286.4	286.1	285.8	285.5	285.2	285.5	285.8	286.1	286.4	286.6
130°	308.0	307.8	307.4	307.0	306.6	306.2	306.6	307.0	307.4	307.8	308.0
132.5°	327.6	327.4	327.1	326.8	326.5	326.2	326.5	326.8	327.1	327.4	327.6
135°	348.5	348.4	348.1	347.8	347.5	347.2	347.5	347.8	348.1	348.4	348.5
137.5°	367.7	367.5	367.1	366.7	366.3	365.9	366.3	366.7	367.1	367.5	367.7
140°	387.3	387.1	386.7	386.2	385.8	385.4	385.8	386.2	386.7	387.1	387.3
142.5°	405.0	404.8	404.4	404.0	403.6	403.2	403.6	404.0	404.4	404.8	405.0
145°	422.8	422.6	422.2	421.8	421.4	421.0	421.4	421.8	422.2	422.6	422.8
147.5°	438.8	438.6	438.2	437.7	437.3	436.9	437.3	437.7	438.2	438.6	438.8
150°	453.8	453.6	453.3	453.0	452.7	452.4	452.7	453.0	453.3	453.6	453.8
152.5°	468.8	468.6	468.2	467.8	467.4	467.0	467.4	467.8	468.2	468.6	468.8
155°	481.1	481.0	480.7	480.4	480.1	479.8	480.1	480.4	480.7	481.0	481.1
157.5°	493.4	493.2	492.7	492.2	491.7	491.2	491.7	492.2	492.7	493.2	493.4
160°	503.5	503.3	502.9	502.4	502.0	501.6	502.0	502.4	502.9	503.3	503.5
162.5°	513.0	512.7	512.2	511.7	511.2	510.7	511.2	511.7	512.2	512.7	513.0
165°	520.8	520.5	520.0	519.5	519.0	518.5	519.0	519.5	520.0	520.5	520.8
167.5°	527.6	527.3	526.8	526.3	525.8	525.3	525.8	526.3	526.8	527.3	527.6
170°	533.1	532.8	532.2	531.5	530.9	530.3	530.9	531.5	532.2	532.8	533.1
172.5°	537.2	536.9	536.3	535.6	535.0	534.4	535.0	535.6	536.3	536.9	537.2
175°	539.9	539.6	539.0	538.4	537.8	537.2	537.8	538.4	539.0	539.6	539.9
177.5°	541.3	541.0	540.4	539.7	539.1	538.5	539.1	539.7	540.4	541.0	541.3
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1886.2	1898.4	1893.9	1877.1	1896.9	1896.9	1910.7	1910.7	1927.5	1933.6	1942.7
5°	1779.3	1788.5	1796.1	1788.5	1802.2	1823.6	1835.8	1846.5	1869.4	1878.6	1892.3
7.5°	1664.8	1681.6	1689.2	1689.2	1712.1	1736.6	1761.0	1776.3	1808.3	1820.6	1834.3
10°	1553.3	1573.1	1588.4	1586.9	1625.1	1640.3	1670.9	1706.0	1738.1	1756.4	1776.3
12.5°	1435.7	1446.4	1467.7	1498.3	1507.5	1534.9	1570.1	1614.4	1672.4	1689.2	1718.2
15°	1337.9	1366.9	1383.7	1397.5	1418.9	1444.8	1483.0	1525.8	1583.8	1620.5	1651.0
17.5°	1255.5	1293.6	1304.3	1301.3	1328.8	1368.5	1412.8	1444.8	1496.8	1541.1	1570.1
20°	1188.2	1203.5	1221.8	1229.5	1250.9	1293.6	1336.4	1373.1	1415.8	1450.9	1484.5
22.5°	1121.0	1133.3	1148.5	1162.3	1179.1	1203.5	1244.8	1290.6	1331.8	1365.4	1403.6
25°	1066.1	1073.7	1087.4	1098.1	1116.5	1133.3	1162.3	1212.7	1261.6	1281.4	1315.0
27.5°	1012.6	1018.7	1027.9	1040.1	1049.3	1066.1	1092.0	1133.3	1183.7	1203.5	1249.3
30°	965.3	969.8	979.0	985.1	989.7	1009.6	1029.4	1061.5	1099.7	1127.2	1160.8
32.5°	921.0	925.6	934.7	936.2	942.4	953.0	971.4	1000.4	1034.0	1056.9	1085.9
35°	872.1	875.1	884.3	887.4	892.0	901.1	914.9	936.2	966.8	983.6	1009.6
37.5°	833.9	832.4	838.5	843.1	849.2	853.8	858.3	879.7	902.6	917.9	937.8
40°	792.7	789.6	791.1	797.3	800.3	806.4	806.4	827.8	843.1	855.3	870.6
42.5°	751.4	749.9	746.9	749.9	753.0	754.5	756.0	771.3	786.6	797.3	814.1
45°	710.2	708.7	705.6	707.1	707.1	710.2	714.8	720.9	731.6	740.7	749.9
47.5°	672.0	669.0	664.4	662.9	665.9	665.9	665.9	672.0	682.7	685.8	694.9
50°	632.3	627.7	621.6	618.6	618.6	617.0	620.1	621.6	630.8	633.8	641.5
52.5°	589.5	586.5	580.4	574.3	575.8	572.7	574.3	575.8	578.9	583.4	588.0
55°	546.8	540.7	536.1	534.6	530.0	530.0	525.4	531.5	530.0	531.5	537.6
57.5°	505.5	499.4	491.8	488.7	484.2	482.6	479.6	478.0	479.6	484.2	488.7
60°	456.7	453.6	449.0	444.4	441.4	436.8	433.8	433.8	432.2	432.2	433.8
62.5°	409.3	407.8	401.7	400.2	397.1	394.0	389.5	386.4	386.4	389.5	391.0
65°	363.5	362.0	357.4	355.9	348.2	345.2	343.6	342.1	339.1	339.1	339.1
67.5°	320.7	316.2	316.2	308.5	302.4	299.4	296.3	294.8	294.8	294.8	296.3
70°	273.4	273.4	268.8	264.2	258.1	259.6	255.1	250.5	250.5	247.4	249.0
72.5°	227.6	226.0	221.5	219.9	215.4	210.8	207.7	210.8	206.2	204.7	206.2
75°	183.3	181.8	178.7	175.6	177.2	172.6	168.0	166.5	166.5	163.4	163.4
77.5°	140.5	143.6	137.5	135.9	132.9	129.8	128.3	126.8	126.8	126.8	129.8
80°	97.7	99.3	99.3	96.2	97.7	93.2	93.2	93.2	88.6	90.1	91.6
82.5°	62.6	62.6	61.1	62.6	61.1	61.1	59.6	59.6	58.0	58.0	59.6
85°	35.1	33.6	32.1	35.1	33.6	33.6	32.1	32.1	32.1	32.1	32.1
87.5°	7.6	9.2	9.2	9.2	9.2	10.7	10.7	10.7	12.2	12.2	12.2
90°	15.1	15.3	15.5	15.7	15.9	13.7	11.5	9.2	7.0	5.9	5.3
92.5°	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.8	13.7	13.7	13.3
95°	29.2	29.2	29.2	29.2	29.2	29.0	28.8	28.5	28.3	28.2	27.7
97.5°	45.6	45.6	45.6	45.6	45.6	45.2	44.8	44.3	43.9	43.7	43.2
100°	62.9	62.9	62.9	62.9	62.9	62.6	62.3	62.0	61.7	61.5	61.1
102.5°	82.0	81.9	81.8	81.7	81.6	81.2	80.8	80.3	79.9	79.7	79.4
105°	101.0	100.8	100.6	100.4	100.2	100.0	99.8	99.6	99.4	99.3	99.2
107.5°	121.1	121.0	120.9	120.8	120.7	120.7	120.7	120.7	120.7	120.7	120.5
110°	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.4

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	161.9	162.2	162.5	162.8	163.1	163.2	163.3	163.4	163.5	163.6	163.3
115°	183.7	183.8	183.9	184.0	184.1	184.3	184.5	184.7	184.9	185.0	184.7
117.5°	203.8	204.1	204.4	204.7	205.0	205.5	206.0	206.5	207.0	207.3	206.9
120°	225.1	225.1	225.1	225.1	225.1	225.9	226.7	227.5	228.3	228.7	228.3
122.5°	245.7	246.0	246.3	246.6	246.9	247.4	247.9	248.4	248.9	249.2	248.7
125°	266.7	267.0	267.3	267.6	267.9	268.2	268.5	268.8	269.1	269.3	268.8
127.5°	286.8	287.2	287.6	288.0	288.4	288.8	289.2	289.6	290.0	290.2	289.6
130°	308.1	308.3	308.5	308.7	308.9	309.1	309.3	309.5	309.7	309.8	309.1
132.5°	327.9	328.4	328.9	329.4	329.9	329.8	329.7	329.6	329.5	329.4	328.9
135°	348.6	348.7	348.8	348.9	349.0	348.8	348.6	348.4	348.2	348.1	347.5
137.5°	367.7	367.8	367.9	368.0	368.1	367.9	367.7	367.5	367.3	367.2	366.7
140°	387.3	387.3	387.3	387.3	387.3	386.8	386.3	385.8	385.3	385.0	384.5
142.5°	405.0	404.9	404.8	404.7	404.6	404.3	404.0	403.7	403.4	403.2	402.7
145°	422.8	422.7	422.6	422.5	422.4	421.8	421.2	420.5	419.9	419.6	419.2
147.5°	438.7	438.5	438.2	438.0	437.8	437.4	437.0	436.6	436.2	436.0	435.5
150°	453.6	453.3	453.0	452.7	452.4	452.0	451.6	451.2	450.8	450.6	450.3
152.5°	468.6	468.2	467.8	467.4	467.0	466.5	466.0	465.5	465.0	464.7	464.4
155°	480.8	480.3	479.8	479.3	478.8	478.5	478.2	477.9	477.6	477.5	477.3
157.5°	493.0	492.3	491.6	490.9	490.2	490.0	489.8	489.6	489.4	489.3	489.2
160°	503.2	502.6	501.9	501.3	500.7	500.6	500.5	500.4	500.3	500.3	500.2
162.5°	512.6	511.9	511.2	510.5	509.8	509.7	509.6	509.5	509.4	509.4	509.4
165°	520.4	519.7	519.0	518.3	517.6	517.6	517.6	517.6	517.6	517.6	517.6
167.5°	527.2	526.5	525.8	525.1	524.4	524.4	524.4	524.4	524.4	524.4	524.6
170°	532.7	532.0	531.3	530.6	529.9	530.0	530.1	530.2	530.3	530.3	530.5
172.5°	536.8	536.1	535.4	534.7	534.0	534.1	534.2	534.3	534.4	534.4	534.6
175°	539.5	538.8	538.1	537.4	536.7	536.9	537.1	537.3	537.5	537.6	537.8
177.5°	541.0	540.4	539.7	539.1	538.5	538.7	538.9	539.1	539.3	539.4	539.6
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1987.0	1987.0	1987.0	1987.0
2.5°	1950.4	1950.4	1973.3	1997.7
5°	1907.6	1918.3	1955.0	1988.6
7.5°	1866.4	1884.7	1930.5	1973.3
10°	1816.0	1840.4	1896.9	1947.3
12.5°	1767.1	1790.0	1855.7	1912.2
15°	1698.4	1727.4	1797.6	1867.9
17.5°	1629.6	1658.7	1744.2	1826.7
20°	1548.7	1586.9	1683.1	1793.1
22.5°	1473.9	1521.2	1628.1	1716.7
25°	1391.4	1464.7	1564.0	1678.5
27.5°	1318.1	1391.4	1492.2	1608.3
30°	1235.6	1310.4	1414.3	1521.2
32.5°	1156.2	1224.9	1325.7	1457.1
35°	1073.7	1139.4	1237.1	1370.0
37.5°	998.9	1063.0	1169.9	1292.1
40°	925.6	992.8	1084.4	1206.6
42.5°	856.8	916.4	998.9	1121.0
45°	794.2	837.0	913.3	1027.9
47.5°	728.5	766.7	837.0	951.5
50°	667.4	699.5	760.6	867.5
52.5°	607.9	635.4	691.9	777.4
55°	554.4	580.4	621.6	705.6
57.5°	499.4	519.3	559.0	626.2
60°	446.0	464.3	496.4	551.4
62.5°	392.5	407.8	438.3	482.6
65°	345.2	357.4	380.3	418.5
67.5°	299.4	307.0	325.3	355.9
70°	255.1	261.2	276.4	300.9
72.5°	207.7	213.8	230.6	247.4
75°	168.0	169.5	181.8	195.5
77.5°	131.3	129.8	139.0	149.7
80°	90.1	94.7	102.3	106.9
82.5°	61.1	62.6	65.7	68.7
85°	33.6	35.1	35.1	39.7
87.5°	13.7	15.3	15.3	16.8
90°	4.1	2.9	1.7	0.5
92.5°	12.5	11.6	10.8	10.0
95°	26.7	25.7	24.7	23.7
97.5°	42.3	41.4	40.5	39.6
100°	60.3	59.5	58.7	57.9
102.5°	78.8	78.2	77.6	77.0
105°	98.9	98.6	98.3	98.0
107.5°	120.1	119.7	119.3	118.9
110°	140.8	140.2	139.6	139.0

TEST NUMBER: P1029217

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	162.7	162.0	161.4	160.8
115°	184.1	183.4	182.8	182.2
117.5°	206.1	205.3	204.5	203.7
120°	227.5	226.7	225.9	225.1
122.5°	247.7	246.7	245.7	244.7
125°	267.9	267.0	266.1	265.2
127.5°	288.5	287.4	286.3	285.2
130°	307.8	306.5	305.2	303.9
132.5°	327.9	326.9	325.9	324.9
135°	346.4	345.3	344.2	343.1
137.5°	365.8	364.9	364.0	363.1
140°	383.6	382.7	381.8	380.9
142.5°	401.8	400.9	400.0	399.1
145°	418.5	417.8	417.1	416.4
147.5°	434.6	433.7	432.8	431.9
150°	449.7	449.1	448.5	447.9
152.5°	463.8	463.2	462.6	462.0
155°	477.0	476.7	476.4	476.1
157.5°	489.0	488.8	488.6	488.4
160°	500.0	499.8	499.6	499.4
162.5°	509.4	509.4	509.4	509.4
165°	517.7	517.8	517.9	518.0
167.5°	524.9	525.2	525.5	525.8
170°	530.8	531.1	531.4	531.7
172.5°	534.9	535.2	535.5	535.8
175°	538.1	538.4	538.7	539.0
177.5°	539.9	540.2	540.5	540.8
180°	539.9	539.9	539.9	539.9

(END OF REPORT)