

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: P1029219

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029219
REPORT IS A COMBINATION OF REPORTS P985217 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-A_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

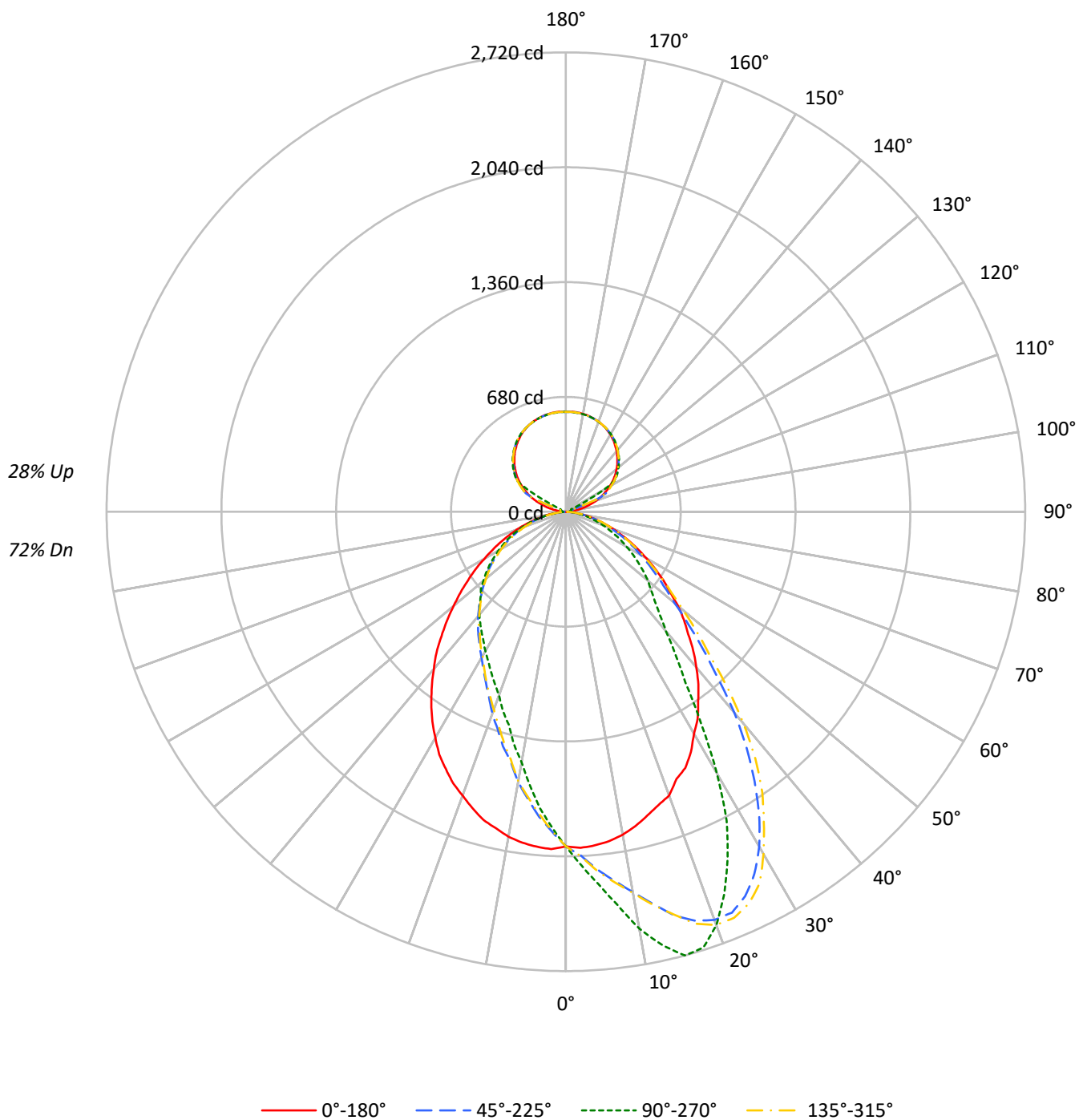
Lumens per Lamp: N/A
Luminaire Lumens: 6108.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	68	67	66
2	95	87	81	76	90	83	78	73	75	71	67	68	65	62	61	58	56
3	87	78	70	64	82	74	67	62	67	62	57	61	56	53	55	51	49
4	80	69	61	55	76	66	59	53	60	54	50	54	50	46	49	46	43
5	74	62	54	48	70	59	52	47	54	48	43	49	44	41	45	41	38
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	38	33	30
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25
10	52	40	32	27	49	38	31	27	35	29	25	33	28	24	30	26	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31359	31359	31359	31359
5°	31436	33437	31556	26602
10°	31070	36502	31265	21932
15°	30317	38501	30739	18474
20°	29843	36150	29843	16057
25°	28892	31057	29025	14360
30°	27328	24414	27849	13007
35°	25941	16882	26375	11901
40°	24348	12746	24625	11018
45°	22382	10474	22749	10067
50°	20683	9193	20721	9215
55°	18746	7833	18868	8291
60°	16680	6542	16911	7235
65°	14831	5321	15105	6179
70°	12992	4175	13321	4983
75°	10903	3032	11328	3614
80°	8511	1922	9117	2144
85°	5594	966	6018	717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 32417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	3.1
10°-20°	549.2	9.0
20°-30°	797.1	13.1
30°-40°	840.3	13.8
40°-50°	743.6	12.2
50°-60°	593.7	9.7
60°-70°	403.3	6.6
70°-80°	206.3	3.4
80°-90°	49.8	0.8
90°-100°	19.5	0.3
100°-110°	72.8	1.2
110°-120°	193.0	3.2
120°-130°	320.2	5.2
130°-140°	340.1	5.6
140°-150°	316.1	5.2
150°-160°	254.1	4.2
160°-170°	163.8	2.7
170°-180°	56.4	0.9
0°-30°	1535.0	25.1
0°-40°	2375.3	38.9
0°-60°	3712.6	60.8
0°-90°	4372.0	71.6
90°-120°	285.4	4.7
90°-150°	1261.7	20.7
90°-180°	1736.0	28.4
0°-180°	6108.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1981	1981	1981	1981	1981	
5°	1983	2213	1990	1760	1983	188
15°	1862	2720	1888	1305	1862	526
25°	1674	2266	1681	1048	1674	765
35°	1366	1234	1389	870	1366	855
45°	1025	743	1042	714	1025	795
55°	704	522	708	553	704	628
65°	417	321	425	373	417	415
75°	195	158	202	189	195	209
85°	40	41	43	30	40	46
90°	0	12	0	12	0	4
95°	28	18	28	18	28	33
105°	130	33	130	33	130	139
115°	246	35	246	35	246	243
125°	348	366	348	366	348	311
135°	431	445	431	445	431	333
145°	500	508	500	508	500	313
155°	551	551	551	551	551	254
165°	580	579	580	579	580	164
175°	593	590	593	590	593	56
180°	592	592	592	592	592	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1991.8	1996.4	2004.0	2005.5	2020.7	2032.9	2046.6	2046.6	2051.2	2049.7	2037.5
5°	1982.7	1996.4	2016.2	2032.9	2060.3	2072.5	2090.8	2104.5	2116.7	2125.8	2124.3
7.5°	1967.4	1991.8	2020.7	2052.7	2089.3	2110.6	2136.5	2160.8	2177.6	2192.8	2203.5
10°	1941.5	1982.7	2022.3	2064.9	2112.1	2141.0	2171.5	2203.5	2229.4	2258.3	2285.7
12.5°	1906.5	1965.9	2014.6	2071.0	2128.9	2160.8	2209.6	2233.9	2284.2	2357.3	2377.1
15°	1862.4	1943.1	1988.8	2060.3	2136.5	2162.4	2229.4	2268.9	2372.5	2418.2	2473.0
17.5°	1821.2	1911.1	1972.0	2054.2	2128.9	2179.1	2244.6	2325.3	2412.1	2477.6	2538.5
20°	1787.7	1874.5	1947.6	2039.0	2133.4	2197.4	2265.9	2363.4	2457.8	2524.8	2572.0
22.5°	1711.6	1822.8	1908.0	2010.1	2124.3	2212.6	2278.1	2384.7	2486.7	2527.8	2568.9
25°	1673.5	1769.5	1868.5	1984.2	2118.2	2223.3	2279.6	2398.4	2488.2	2503.5	2512.6
27.5°	1603.5	1711.6	1827.3	1959.8	2116.7	2205.0	2276.6	2384.7	2456.2	2445.6	2418.2
30°	1516.7	1649.2	1777.1	1920.2	2095.3	2191.3	2258.3	2357.3	2393.8	2339.0	2290.3
32.5°	1452.7	1577.6	1719.2	1885.2	2071.0	2162.4	2227.8	2305.5	2313.1	2214.1	2131.9
35°	1365.9	1504.5	1664.4	1839.5	2029.9	2112.1	2173.0	2220.2	2183.7	2045.1	1947.6
37.5°	1288.3	1425.3	1595.9	1774.0	1973.5	2054.2	2103.0	2110.6	2020.7	1898.9	1755.8
40°	1203.0	1344.6	1522.8	1710.1	1911.1	1981.1	2011.6	1988.8	1859.3	1717.7	1551.7
42.5°	1117.7	1257.8	1449.7	1641.6	1831.9	1891.3	1903.5	1841.0	1682.7	1516.7	1324.8
45°	1024.8	1171.0	1362.9	1556.3	1740.5	1774.0	1775.6	1685.7	1498.4	1324.8	1146.7
47.5°	948.7	1084.2	1274.6	1468.0	1623.3	1646.1	1637.0	1533.4	1329.4	1134.5	979.1
50°	864.9	994.4	1183.2	1373.6	1506.0	1512.1	1489.3	1341.6	1142.1	963.9	840.6
52.5°	775.1	906.1	1079.7	1262.4	1381.2	1372.0	1327.9	1169.5	982.2	834.5	740.1
55°	703.5	819.3	982.2	1160.4	1244.1	1218.2	1169.5	1008.1	860.4	735.5	653.3
57.5°	624.3	726.4	886.3	1041.6	1090.3	1065.9	1017.2	866.5	729.4	635.0	580.2
60°	549.7	642.6	782.7	912.1	950.2	924.3	868.0	732.5	633.5	554.3	513.2
62.5°	481.2	561.9	679.2	797.9	813.2	787.3	738.5	628.9	543.6	481.2	450.7
65°	417.2	493.4	587.8	677.6	691.3	663.9	613.7	534.5	462.9	423.3	394.4
67.5°	354.8	415.7	499.5	565.0	572.6	546.7	505.6	441.6	397.4	354.8	333.5
70°	300.0	345.7	411.2	464.4	467.5	443.1	421.8	363.9	330.4	300.0	283.2
72.5°	246.7	278.7	328.9	368.5	370.0	354.8	335.0	298.5	269.5	248.2	231.5
75°	194.9	222.3	252.8	287.8	286.3	274.1	258.9	236.0	211.7	198.0	190.3
77.5°	149.2	166.0	190.3	213.2	213.2	207.1	198.0	181.2	166.0	152.3	144.7
80°	106.6	117.3	137.1	144.7	147.7	146.2	138.6	126.4	120.3	109.6	106.6
82.5°	68.5	76.1	85.3	92.9	97.5	94.4	92.9	86.8	77.7	74.6	71.6
85°	39.6	42.6	47.2	51.8	53.3	51.8	54.8	50.3	45.7	45.7	44.2
87.5°	16.8	18.3	21.3	21.3	22.8	22.8	21.3	22.8	22.8	21.3	19.8
90°	0.4	1.4	2.5	3.5	4.6	5.1	5.5	6.3	7.0	7.8	8.6
92.5°	10.7	10.3	9.9	9.6	9.2	9.0	9.1	9.4	9.7	10.0	10.3
95°	27.9	24.7	21.6	18.4	15.3	13.7	14.0	14.7	15.4	16.0	16.7
97.5°	50.1	42.3	34.5	26.7	18.9	15.0	15.8	17.3	18.8	20.4	21.9
100°	75.8	62.8	49.7	36.7	23.6	17.1	17.9	19.5	21.2	22.8	24.4
102.5°	104.1	103.9	103.7	103.6	103.4	103.3	94.6	77.3	60.0	42.6	25.3
105°	130.3	133.1	136.0	138.8	141.7	143.1	130.1	104.1	78.1	52.1	26.1
107.5°	160.7	163.1	165.5	167.8	170.2	171.4	155.4	123.3	91.2	59.1	27.0
110°	189.8	191.8	193.8	195.8	197.8	198.8	185.0	157.5	130.0	102.5	75.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	217.2	218.9	220.6	222.3	224.0	224.9	224.1	222.5	220.9	219.3	217.7
115°	246.4	248.0	249.6	251.3	252.9	253.7	254.9	257.3	259.6	262.0	264.4
117.5°	271.6	273.5	275.4	277.3	279.2	280.2	281.0	282.6	284.3	285.9	287.5
120°	299.9	301.3	302.8	304.2	305.7	306.4	307.3	309.0	310.7	312.4	314.1
122.5°	323.9	325.4	327.0	328.5	330.0	330.8	331.7	333.6	335.5	337.4	339.3
125°	348.3	349.5	350.8	352.0	353.3	353.9	354.8	356.6	358.5	360.3	362.1
127.5°	370.6	371.9	373.3	374.6	375.9	376.6	377.3	378.8	380.2	381.7	383.1
130°	391.6	393.1	394.7	396.2	397.7	398.5	399.0	400.1	401.1	402.2	403.2
132.5°	413.0	414.2	415.5	416.7	418.0	418.6	419.1	420.2	421.2	422.3	423.3
135°	431.0	432.5	434.1	435.6	437.1	437.9	438.3	439.2	440.1	440.9	441.8
137.5°	449.9	451.0	452.2	453.3	454.4	455.0	455.5	456.4	457.4	458.3	459.3
140°	468.3	469.1	469.8	470.6	471.3	471.7	472.2	473.3	474.4	475.4	476.5
142.5°	483.7	484.4	485.0	485.7	486.4	486.7	487.3	488.6	489.8	491.1	492.3
145°	500.0	499.9	499.8	499.7	499.6	499.6	500.4	502.0	503.7	505.3	506.9
147.5°	514.2	513.9	513.6	513.3	513.0	512.9	513.7	515.3	517.0	518.6	520.2
150°	527.9	527.2	526.6	525.9	525.2	524.9	525.7	527.2	528.7	530.2	531.7
152.5°	539.4	538.6	537.9	537.1	536.4	536.0	536.7	538.1	539.6	541.0	542.4
155°	550.6	549.7	548.9	548.0	547.1	546.7	547.3	548.4	549.6	550.7	551.9
157.5°	559.6	558.8	558.1	557.3	556.6	556.2	556.6	557.5	558.3	559.2	560.0
160°	567.3	566.7	566.1	565.6	565.0	564.7	565.0	565.6	566.1	566.7	567.3
162.5°	574.1	573.5	573.0	572.4	571.9	571.6	571.8	572.3	572.8	573.2	573.7
165°	580.1	579.5	579.0	578.4	577.9	577.6	577.7	578.0	578.3	578.6	578.9
167.5°	584.9	584.3	583.7	583.2	582.6	582.3	582.4	582.7	583.0	583.3	583.6
170°	588.7	588.1	587.5	587.0	586.4	586.1	586.2	586.4	586.6	586.8	587.0
172.5°	591.3	590.7	590.1	589.6	589.0	588.7	588.8	589.0	589.2	589.4	589.6
175°	593.4	592.7	592.1	591.4	590.7	590.4	590.5	590.7	590.9	591.1	591.3
177.5°	594.3	593.6	593.0	592.3	591.6	591.3	591.3	591.4	591.5	591.6	591.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	2058.8	2060.3	2063.4	2078.6	2086.2	2087.7	2081.6	2095.3	2099.9	2095.3	2092.3
5°	2156.3	2165.4	2183.7	2203.5	2201.9	2203.5	2212.6	2221.7	2224.8	2212.6	2217.2
7.5°	2241.5	2259.8	2279.6	2310.1	2310.1	2325.3	2331.4	2339.0	2357.3	2348.1	2345.1
10°	2339.0	2363.4	2399.9	2448.6	2450.2	2465.4	2480.6	2505.0	2512.6	2506.5	2509.5
12.5°	2460.8	2508.0	2511.1	2564.4	2588.7	2591.8	2616.1	2611.6	2626.8	2626.8	2652.7
15°	2514.1	2587.2	2628.3	2680.1	2695.3	2677.1	2696.8	2718.2	2719.7	2719.7	2718.2
17.5°	2610.1	2639.0	2680.1	2707.5	2713.6	2713.6	2715.1	2724.3	2718.2	2706.0	2715.1
20°	2629.8	2642.0	2657.3	2654.2	2657.3	2642.0	2626.8	2611.6	2613.1	2605.5	2628.3
22.5°	2593.3	2590.3	2555.2	2532.4	2532.4	2501.9	2473.0	2459.3	2445.6	2450.2	2457.8
25°	2501.9	2454.7	2412.1	2378.6	2371.0	2322.2	2282.7	2270.5	2247.6	2265.9	2268.9
27.5°	2355.7	2302.4	2233.9	2205.0	2165.4	2145.6	2118.2	2081.6	2034.4	2061.8	2057.3
30°	2198.9	2119.7	2063.4	1993.3	1930.9	1926.3	1874.5	1813.6	1789.3	1789.3	1803.0
32.5°	2023.8	1918.7	1836.5	1737.5	1676.6	1650.7	1588.3	1527.4	1541.1	1495.4	1512.1
35°	1819.7	1681.2	1577.6	1481.7	1436.0	1405.5	1324.8	1291.3	1254.8	1233.5	1273.0
37.5°	1624.8	1464.9	1332.4	1227.4	1210.6	1155.8	1101.0	1079.7	1058.3	1067.5	1065.9
40°	1387.3	1245.6	1126.9	1044.6	1015.7	989.8	953.3	927.4	913.7	921.3	922.8
42.5°	1172.5	1053.8	965.4	907.6	883.2	864.9	846.7	825.3	820.8	820.8	826.9
45°	1006.6	909.1	849.7	802.5	788.8	775.1	761.4	752.3	749.2	743.1	747.7
47.5°	874.1	796.4	759.9	724.8	709.6	706.6	694.4	689.8	683.7	682.2	683.7
50°	762.9	714.2	680.7	660.9	650.2	645.7	639.6	630.4	627.4	635.0	632.0
52.5°	685.3	639.6	621.3	601.5	595.4	589.3	580.2	581.7	580.2	577.1	577.1
55°	607.6	578.7	560.4	545.2	543.6	537.5	529.9	526.9	525.4	522.3	526.9
57.5°	545.2	522.3	505.6	491.9	485.8	485.8	478.2	472.1	472.1	470.5	472.1
60°	482.7	459.9	449.2	435.5	430.9	429.4	424.9	421.8	417.2	417.2	417.2
62.5°	424.9	406.6	394.4	382.2	383.7	376.1	370.0	367.0	367.0	368.5	368.5
65°	370.0	357.9	342.6	332.0	328.9	327.4	324.4	322.8	318.3	321.3	321.3
67.5°	319.8	303.0	293.9	289.3	284.8	283.2	280.2	277.1	275.6	274.1	277.1
70°	269.5	255.8	248.2	245.2	240.6	239.1	237.6	233.0	234.5	236.0	237.6
72.5°	223.8	211.7	210.1	201.0	201.0	201.0	194.9	198.0	196.4	193.4	196.4
75°	176.6	170.6	167.5	162.9	164.5	162.9	161.4	156.8	156.8	158.4	159.9
77.5°	140.1	134.0	132.5	127.9	124.9	127.9	124.9	123.3	123.3	124.9	124.9
80°	103.5	100.5	95.9	95.9	95.9	94.4	94.4	94.4	92.9	91.4	92.9
82.5°	68.5	68.5	67.0	65.5	67.0	64.0	65.5	65.5	65.5	65.5	65.5
85°	44.2	42.6	42.6	41.1	41.1	41.1	42.6	39.6	39.6	41.1	41.1
87.5°	19.8	19.8	19.8	21.3	19.8	19.8	19.8	21.3	19.8	19.8	19.8
90°	9.1	9.5	10.0	10.5	10.7	10.8	11.0	11.2	11.4	11.6	11.4
92.5°	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.5
95°	17.2	17.7	18.2	18.7	18.9	18.8	18.7	18.6	18.5	18.4	18.5
97.5°	22.2	22.4	22.7	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.5
100°	25.2	26.0	26.7	27.5	27.9	28.0	28.2	28.3	28.5	28.7	28.5
102.5°	26.3	27.4	28.4	29.5	30.0	30.1	30.4	30.7	31.0	31.3	31.0
105°	27.1	28.2	29.2	30.3	30.8	31.0	31.4	31.8	32.2	32.6	32.2
107.5°	28.0	29.1	30.1	31.2	31.7	31.9	32.3	32.6	33.0	33.4	33.0
110°	65.5	55.9	46.4	36.9	32.1	32.3	32.7	33.0	33.4	33.8	33.4

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	176.7	135.6	94.6	53.5	33.0	33.1	33.4	33.7	34.0	34.3	34.0
115°	220.3	176.2	132.1	88.0	66.0	62.6	55.7	48.8	42.0	35.1	42.0
117.5°	273.9	260.3	246.6	233.0	226.2	213.7	188.8	163.9	138.9	114.0	138.9
120°	315.2	316.4	317.5	318.6	319.2	312.8	299.9	287.1	274.2	261.4	274.2
122.5°	339.9	340.5	341.0	341.6	341.9	341.9	342.0	342.1	342.2	342.3	342.2
125°	362.8	363.4	364.1	364.8	365.1	365.2	365.5	365.8	366.0	366.3	366.0
127.5°	384.0	385.0	385.9	386.8	387.3	387.4	387.5	387.6	387.7	387.8	387.7
130°	404.2	405.3	406.3	407.4	407.9	407.9	407.8	407.7	407.6	407.5	407.6
132.5°	424.2	425.0	425.9	426.8	427.2	427.2	427.1	427.0	426.9	426.8	426.9
135°	442.7	443.7	444.6	445.5	446.0	445.9	445.7	445.6	445.4	445.2	445.4
137.5°	460.3	461.2	462.2	463.1	463.6	463.5	463.2	462.9	462.6	462.3	462.6
140°	477.3	478.2	479.0	479.9	480.3	480.1	479.6	479.1	478.7	478.2	478.7
142.5°	493.1	493.8	494.6	495.3	495.7	495.5	495.0	494.5	494.1	493.6	494.1
145°	507.6	508.2	508.9	509.6	509.9	509.7	509.2	508.7	508.2	507.7	508.2
147.5°	520.7	521.1	521.6	522.1	522.3	522.1	521.7	521.4	521.0	520.6	521.0
150°	532.3	532.9	533.4	534.0	534.3	534.1	533.6	533.1	532.7	532.2	532.7
152.5°	543.0	543.6	544.1	544.7	545.0	544.7	544.0	543.3	542.7	542.0	542.7
155°	552.5	553.0	553.6	554.1	554.4	554.0	553.3	552.5	551.8	551.0	551.8
157.5°	560.7	561.3	562.0	562.7	563.0	562.6	561.9	561.1	560.4	559.6	560.4
160°	567.9	568.5	569.0	569.6	569.9	569.6	568.9	568.2	567.6	566.9	567.6
162.5°	574.4	575.0	575.7	576.4	576.7	576.3	575.4	574.6	573.7	572.9	573.7
165°	579.6	580.2	580.9	581.6	581.9	581.6	580.9	580.2	579.6	578.9	579.6
167.5°	584.3	584.9	585.6	586.3	586.6	586.2	585.3	584.4	583.6	582.7	583.6
170°	587.7	588.3	589.0	589.7	590.0	589.6	588.7	587.8	587.0	586.1	587.0
172.5°	590.3	590.9	591.6	592.3	592.6	592.2	591.3	590.4	589.6	588.7	589.6
175°	592.0	592.6	593.3	594.0	594.3	593.8	592.9	591.9	591.0	590.0	591.0
177.5°	592.4	593.0	593.7	594.4	594.7	594.3	593.4	592.6	591.7	590.9	591.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	2099.9	2089.3	2080.1	2081.6	2089.3	2083.2	2067.9	2048.1	2040.5	2031.4	2040.5
5°	2226.3	2217.2	2198.9	2200.4	2195.9	2189.8	2165.4	2134.9	2134.9	2110.6	2107.5
7.5°	2351.2	2337.5	2325.3	2322.2	2305.5	2293.3	2272.0	2229.4	2212.6	2183.7	2166.9
10°	2491.3	2480.6	2466.9	2450.2	2441.0	2419.7	2384.7	2322.2	2291.8	2252.2	2223.3
12.5°	2632.9	2631.4	2600.9	2567.4	2565.9	2532.4	2508.0	2424.3	2383.2	2329.9	2261.3
15°	2722.7	2715.1	2698.4	2681.6	2686.2	2649.6	2594.8	2495.8	2468.4	2404.5	2331.4
17.5°	2721.2	2721.2	2716.6	2713.6	2709.0	2698.4	2667.9	2602.4	2558.3	2477.6	2409.0
20°	2634.4	2654.2	2658.8	2657.3	2672.5	2680.1	2678.6	2637.5	2602.4	2530.9	2460.8
22.5°	2460.8	2506.5	2526.3	2538.5	2570.5	2587.2	2626.8	2611.6	2602.4	2549.1	2489.8
25°	2299.4	2314.6	2374.0	2377.1	2421.2	2462.3	2501.9	2527.8	2561.3	2541.5	2491.3
27.5°	2090.8	2125.8	2168.4	2200.4	2209.6	2293.3	2358.8	2407.5	2483.7	2489.8	2473.0
30°	1854.7	1871.5	1941.5	1984.2	2032.9	2093.8	2188.2	2272.0	2340.5	2403.0	2424.3
32.5°	1566.9	1635.5	1676.6	1728.4	1771.0	1879.1	1994.8	2103.0	2182.1	2287.2	2332.9
35°	1303.5	1356.8	1426.8	1448.2	1525.8	1617.2	1768.0	1906.5	2026.8	2133.4	2226.3
37.5°	1085.7	1128.4	1203.0	1236.5	1282.2	1399.4	1525.8	1697.9	1842.6	1973.5	2089.3
40°	936.5	968.5	1024.8	1035.5	1073.6	1180.2	1282.2	1443.6	1635.5	1812.1	1938.5
42.5°	834.5	849.7	887.8	901.5	925.9	997.4	1088.8	1241.1	1419.2	1602.0	1780.1
45°	761.4	772.1	794.9	807.1	837.5	869.5	944.1	1065.9	1206.0	1390.3	1582.2
47.5°	695.9	709.6	718.8	726.4	743.1	778.1	826.9	916.7	1050.7	1219.7	1405.5
50°	641.1	645.7	662.4	663.9	674.6	697.4	743.1	797.9	904.5	1041.6	1221.3
52.5°	586.3	590.8	601.5	612.2	616.7	635.0	665.5	711.1	790.3	898.4	1058.3
55°	531.5	537.5	548.2	555.8	560.4	575.6	593.9	638.0	700.5	776.6	907.6
57.5°	476.6	490.3	493.4	498.0	505.6	522.3	539.1	565.0	613.7	683.7	779.7
60°	424.9	429.4	440.1	444.7	452.3	461.4	482.7	502.5	537.5	592.4	679.2
62.5°	371.6	382.2	386.8	391.4	397.4	408.1	421.8	443.1	473.6	517.7	586.3
65°	325.9	327.4	336.5	342.6	348.7	356.3	370.0	389.8	408.1	449.2	499.5
67.5°	281.7	284.8	287.8	293.9	301.5	309.1	321.3	332.0	354.8	382.2	421.8
70°	239.1	239.1	246.7	251.3	249.7	258.9	268.0	280.2	296.9	322.8	354.8
72.5°	201.0	199.5	205.6	207.1	210.1	216.2	222.3	234.5	243.6	263.4	287.8
75°	159.9	162.9	166.0	166.0	170.6	175.1	181.2	187.3	198.0	210.1	228.4
77.5°	126.4	126.4	129.4	131.0	135.5	134.0	140.1	146.2	153.8	164.5	178.2
80°	92.9	95.9	95.9	95.9	97.5	99.0	105.1	109.6	114.2	121.8	127.9
82.5°	65.5	65.5	68.5	68.5	68.5	71.6	71.6	73.1	76.1	80.7	85.3
85°	41.1	41.1	41.1	42.6	41.1	42.6	45.7	44.2	45.7	48.7	48.7
87.5°	19.8	19.8	19.8	19.8	19.8	21.3	19.8	21.3	22.8	22.8	22.8
90°	11.2	11.0	10.8	10.7	10.5	10.0	9.5	9.1	8.6	7.8	7.0
92.5°	11.4	11.3	11.2	11.1	11.0	10.8	10.7	10.5	10.3	10.0	9.7
95°	18.6	18.7	18.8	18.9	18.7	18.2	17.7	17.2	16.7	16.0	15.4
97.5°	23.4	23.3	23.2	23.1	23.0	22.7	22.4	22.2	21.9	20.4	18.8
100°	28.3	28.2	28.0	27.9	27.5	26.7	26.0	25.2	24.4	22.8	21.2
102.5°	30.7	30.4	30.1	30.0	29.5	28.4	27.4	26.3	25.3	42.6	60.0
105°	31.8	31.4	31.0	30.8	30.3	29.2	28.2	27.1	26.1	52.1	78.1
107.5°	32.6	32.3	31.9	31.7	31.2	30.1	29.1	28.0	27.0	59.1	91.2
110°	33.0	32.7	32.3	32.1	36.9	46.4	55.9	65.5	75.0	102.5	130.0

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CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	33.7	33.4	33.1	33.0	53.5	94.6	135.6	176.7	217.7	219.3	220.9
115°	48.8	55.7	62.6	66.0	88.0	132.1	176.2	220.3	264.4	262.0	259.6
117.5°	163.9	188.8	213.7	226.2	233.0	246.6	260.3	273.9	287.5	285.9	284.3
120°	287.1	299.9	312.8	319.2	318.6	317.5	316.4	315.2	314.1	312.4	310.7
122.5°	342.1	342.0	341.9	341.9	341.6	341.0	340.5	339.9	339.3	337.4	335.5
125°	365.8	365.5	365.2	365.1	364.8	364.1	363.4	362.8	362.1	360.3	358.5
127.5°	387.6	387.5	387.4	387.3	386.8	385.9	385.0	384.0	383.1	381.7	380.2
130°	407.7	407.8	407.9	407.9	407.4	406.3	405.3	404.2	403.2	402.2	401.1
132.5°	427.0	427.1	427.2	427.2	426.8	425.9	425.0	424.2	423.3	422.3	421.2
135°	445.6	445.7	445.9	446.0	445.5	444.6	443.7	442.7	441.8	440.9	440.1
137.5°	462.9	463.2	463.5	463.6	463.1	462.2	461.2	460.3	459.3	458.3	457.4
140°	479.1	479.6	480.1	480.3	479.9	479.0	478.2	477.3	476.5	475.4	474.4
142.5°	494.5	495.0	495.5	495.7	495.3	494.6	493.8	493.1	492.3	491.1	489.8
145°	508.7	509.2	509.7	509.9	509.6	508.9	508.2	507.6	506.9	505.3	503.7
147.5°	521.4	521.7	522.1	522.3	522.1	521.6	521.1	520.7	520.2	518.6	517.0
150°	533.1	533.6	534.1	534.3	534.0	533.4	532.9	532.3	531.7	530.2	528.7
152.5°	543.3	544.0	544.7	545.0	544.7	544.1	543.6	543.0	542.4	541.0	539.6
155°	552.5	553.3	554.0	554.4	554.1	553.6	553.0	552.5	551.9	550.7	549.6
157.5°	561.1	561.9	562.6	563.0	562.7	562.0	561.3	560.7	560.0	559.2	558.3
160°	568.2	568.9	569.6	569.9	569.6	569.0	568.5	567.9	567.3	566.7	566.1
162.5°	574.6	575.4	576.3	576.7	576.4	575.7	575.0	574.4	573.7	573.2	572.8
165°	580.2	580.9	581.6	581.9	581.6	580.9	580.2	579.6	578.9	578.6	578.3
167.5°	584.4	585.3	586.2	586.6	586.3	585.6	584.9	584.3	583.6	583.3	583.0
170°	587.8	588.7	589.6	590.0	589.7	589.0	588.3	587.7	587.0	586.8	586.6
172.5°	590.4	591.3	592.2	592.6	592.3	591.6	590.9	590.3	589.6	589.4	589.2
175°	591.9	592.9	593.8	594.3	594.0	593.3	592.6	592.0	591.3	591.1	590.9
177.5°	592.6	593.4	594.3	594.7	594.4	593.7	593.0	592.4	591.7	591.6	591.5
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	2032.9	2025.3	2020.7	2023.8	2014.6	1991.8	1991.8	1999.4	1990.3	1981.1	1967.4
5°	2089.3	2074.0	2064.9	2063.4	2042.1	2005.5	1997.9	1990.3	1970.5	1949.2	1926.3
7.5°	2144.1	2116.7	2101.4	2090.8	2060.3	2013.1	1993.3	1976.6	1944.6	1912.6	1883.7
10°	2189.8	2150.2	2131.9	2115.1	2075.6	2016.2	1984.2	1953.7	1912.6	1871.5	1835.0
12.5°	2226.3	2180.6	2157.8	2133.4	2084.7	2007.0	1967.4	1918.7	1877.6	1822.8	1786.2
15°	2287.2	2192.8	2171.5	2148.6	2098.4	1991.8	1943.1	1888.3	1831.9	1758.8	1719.2
17.5°	2335.9	2209.6	2208.0	2159.3	2093.8	1985.7	1911.1	1839.5	1778.6	1705.5	1643.1
20°	2364.9	2235.4	2211.1	2160.8	2078.6	1944.6	1866.9	1787.7	1722.3	1633.9	1571.5
22.5°	2389.2	2272.0	2208.0	2147.1	2046.6	1930.9	1816.7	1742.1	1652.2	1556.3	1496.9
25°	2398.4	2279.6	2212.6	2142.6	2023.8	1891.3	1761.9	1681.2	1580.6	1493.9	1413.1
27.5°	2399.9	2278.1	2195.9	2122.8	1991.8	1839.5	1707.0	1621.8	1510.6	1410.1	1329.4
30°	2384.7	2261.3	2186.7	2107.5	1961.3	1792.3	1640.0	1545.6	1426.8	1326.3	1242.6
32.5°	2339.0	2227.8	2166.9	2080.1	1921.8	1726.8	1576.1	1471.0	1346.1	1247.2	1166.5
35°	2262.9	2186.7	2119.7	2039.0	1870.0	1665.9	1512.1	1388.8	1262.4	1168.0	1091.8
37.5°	2168.4	2127.3	2064.9	1985.7	1810.6	1611.1	1440.6	1303.5	1177.1	1085.7	1011.1
40°	2040.5	2051.2	1990.3	1918.7	1740.5	1536.5	1347.7	1216.7	1097.9	1012.7	939.6
42.5°	1902.0	1946.1	1911.1	1842.6	1662.9	1454.3	1279.1	1134.5	1018.7	930.4	869.5
45°	1752.7	1828.9	1807.5	1757.3	1582.2	1367.5	1181.7	1041.6	939.6	854.3	801.0
47.5°	1589.8	1697.9	1697.9	1661.4	1492.3	1280.7	1097.9	954.8	854.3	793.4	741.6
50°	1423.8	1545.6	1565.4	1541.1	1391.8	1181.7	995.9	866.5	779.7	720.3	682.2
52.5°	1250.2	1391.8	1428.4	1416.2	1285.2	1087.3	912.1	785.8	706.6	654.8	621.3
55°	1084.2	1248.7	1288.3	1292.8	1171.0	983.7	819.3	708.1	632.0	596.9	568.0
57.5°	927.4	1085.7	1129.9	1137.5	1055.3	889.3	732.5	635.0	566.5	537.5	514.7
60°	793.4	925.9	983.7	1000.5	928.9	779.7	651.8	557.3	505.6	478.2	456.8
62.5°	683.7	790.3	851.2	855.8	823.8	683.7	568.0	488.8	444.7	420.3	409.6
65°	577.1	673.1	709.6	727.9	702.0	592.4	490.3	424.9	389.8	368.5	357.9
67.5°	491.9	552.8	583.2	607.6	581.7	499.5	417.2	363.9	338.1	316.7	310.6
70°	403.5	453.8	476.6	501.0	478.2	415.7	356.3	307.6	284.8	268.0	260.4
72.5°	322.8	362.4	383.7	399.0	385.3	333.5	284.8	251.3	234.5	222.3	217.8
75°	255.8	283.2	295.4	306.1	300.0	260.4	229.9	202.5	187.3	176.6	173.6
77.5°	194.9	214.7	228.4	231.5	223.8	198.0	172.1	155.3	143.1	137.1	134.0
80°	138.6	150.8	158.4	162.9	155.3	144.7	126.4	114.2	103.5	95.9	94.4
82.5°	92.9	99.0	105.1	103.5	100.5	91.4	80.7	74.6	70.0	64.0	64.0
85°	53.3	54.8	57.9	59.4	57.9	51.8	45.7	42.6	39.6	35.0	35.0
87.5°	22.8	24.4	24.4	25.9	22.8	22.8	19.8	16.8	16.8	15.2	13.7
90°	6.3	5.5	5.1	4.6	3.5	2.5	1.4	0.4	1.4	2.5	3.5
92.5°	9.4	9.1	9.0	9.2	9.6	9.9	10.3	10.7	10.3	9.9	9.6
95°	14.7	14.0	13.7	15.3	18.4	21.6	24.7	27.9	24.7	21.6	18.4
97.5°	17.3	15.8	15.0	18.9	26.7	34.5	42.3	50.1	42.3	34.5	26.7
100°	19.5	17.9	17.1	23.6	36.7	49.7	62.8	75.8	62.8	49.7	36.7
102.5°	77.3	94.6	103.3	103.4	103.6	103.7	103.9	104.1	103.9	103.7	103.6
105°	104.1	130.1	143.1	141.7	138.8	136.0	133.1	130.3	133.1	136.0	138.8
107.5°	123.3	155.4	171.4	170.2	167.8	165.5	163.1	160.7	163.1	165.5	167.8
110°	157.5	185.0	198.8	197.8	195.8	193.8	191.8	189.8	191.8	193.8	195.8

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	222.5	224.1	224.9	224.0	222.3	220.6	218.9	217.2	218.9	220.6	222.3
115°	257.3	254.9	253.7	252.9	251.3	249.6	248.0	246.4	248.0	249.6	251.3
117.5°	282.6	281.0	280.2	279.2	277.3	275.4	273.5	271.6	273.5	275.4	277.3
120°	309.0	307.3	306.4	305.7	304.2	302.8	301.3	299.9	301.3	302.8	304.2
122.5°	333.6	331.7	330.8	330.0	328.5	327.0	325.4	323.9	325.4	327.0	328.5
125°	356.6	354.8	353.9	353.3	352.0	350.8	349.5	348.3	349.5	350.8	352.0
127.5°	378.8	377.3	376.6	375.9	374.6	373.3	371.9	370.6	371.9	373.3	374.6
130°	400.1	399.0	398.5	397.7	396.2	394.7	393.1	391.6	393.1	394.7	396.2
132.5°	420.2	419.1	418.6	418.0	416.7	415.5	414.2	413.0	414.2	415.5	416.7
135°	439.2	438.3	437.9	437.1	435.6	434.1	432.5	431.0	432.5	434.1	435.6
137.5°	456.4	455.5	455.0	454.4	453.3	452.2	451.0	449.9	451.0	452.2	453.3
140°	473.3	472.2	471.7	471.3	470.6	469.8	469.1	468.3	469.1	469.8	470.6
142.5°	488.6	487.3	486.7	486.4	485.7	485.0	484.4	483.7	484.4	485.0	485.7
145°	502.0	500.4	499.6	499.6	499.7	499.8	499.9	500.0	499.9	499.8	499.7
147.5°	515.3	513.7	512.9	513.0	513.3	513.6	513.9	514.2	513.9	513.6	513.3
150°	527.2	525.7	524.9	525.2	525.9	526.6	527.2	527.9	527.2	526.6	525.9
152.5°	538.1	536.7	536.0	536.4	537.1	537.9	538.6	539.4	538.6	537.9	537.1
155°	548.4	547.3	546.7	547.1	548.0	548.9	549.7	550.6	549.7	548.9	548.0
157.5°	557.5	556.6	556.2	556.6	557.3	558.1	558.8	559.6	558.8	558.1	557.3
160°	565.6	565.0	564.7	565.0	565.6	566.1	566.7	567.3	566.7	566.1	565.6
162.5°	572.3	571.8	571.6	571.9	572.4	573.0	573.5	574.1	573.5	573.0	572.4
165°	578.0	577.7	577.6	577.9	578.4	579.0	579.5	580.1	579.5	579.0	578.4
167.5°	582.7	582.4	582.3	582.6	583.2	583.7	584.3	584.9	584.3	583.7	583.2
170°	586.4	586.2	586.1	586.4	587.0	587.5	588.1	588.7	588.1	587.5	587.0
172.5°	589.0	588.8	588.7	589.0	589.6	590.1	590.7	591.3	590.7	590.1	589.6
175°	590.7	590.5	590.4	590.7	591.4	592.1	592.7	593.4	592.7	592.1	591.4
177.5°	591.4	591.3	591.3	591.6	592.3	593.0	593.6	594.3	593.6	593.0	592.3
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1959.8	1967.4	1965.9	1950.7	1933.9	1920.2	1894.3	1897.4	1888.3	1889.8	1898.9
5°	1911.1	1911.1	1905.0	1883.7	1856.3	1841.0	1812.1	1804.5	1786.2	1784.7	1783.2
7.5°	1859.3	1851.7	1844.1	1813.6	1780.1	1755.8	1716.2	1707.0	1688.8	1676.6	1670.5
10°	1798.4	1787.7	1772.5	1737.5	1696.4	1665.9	1624.8	1612.6	1577.6	1562.4	1553.2
12.5°	1731.4	1725.3	1700.9	1672.0	1605.0	1571.5	1512.1	1524.3	1489.3	1458.8	1454.3
15°	1664.4	1641.6	1627.9	1580.6	1499.9	1484.7	1437.5	1413.1	1381.2	1356.8	1356.8
17.5°	1598.9	1563.9	1533.4	1483.2	1423.8	1381.2	1346.1	1334.0	1294.4	1270.0	1265.4
20°	1512.1	1472.5	1464.9	1393.3	1352.2	1305.0	1271.5	1241.1	1212.1	1201.5	1193.9
22.5°	1429.9	1384.2	1372.0	1311.1	1270.0	1222.8	1189.3	1168.0	1146.7	1139.0	1125.3
25°	1341.6	1314.2	1295.9	1230.4	1184.7	1140.6	1117.7	1102.5	1082.7	1081.2	1072.0
27.5°	1256.3	1230.4	1212.1	1149.7	1116.2	1075.1	1056.8	1040.1	1029.4	1024.8	1020.3
30°	1183.2	1154.3	1133.0	1087.3	1046.2	1012.7	997.4	986.8	980.7	973.1	971.5
32.5°	1102.5	1085.7	1056.8	1021.8	989.8	957.8	948.7	941.1	931.9	928.9	927.4
35°	1034.0	1011.1	992.9	953.3	939.6	912.1	901.5	895.4	883.2	880.2	877.1
37.5°	967.0	945.6	925.9	901.5	875.6	860.4	854.3	845.1	839.1	840.6	837.5
40°	900.0	883.2	868.0	842.1	826.9	819.3	807.1	797.9	794.9	796.4	794.9
42.5°	834.5	819.3	810.1	790.3	775.1	767.5	759.9	750.7	755.3	755.3	759.9
45°	775.1	761.4	755.3	740.1	730.9	718.8	711.1	709.6	715.7	714.2	714.2
47.5°	714.2	709.6	702.0	688.3	676.1	668.5	667.0	667.0	673.1	676.1	674.6
50°	667.0	657.8	648.7	638.0	628.9	625.9	621.3	624.3	630.4	630.4	633.5
52.5°	607.6	601.5	598.5	589.3	583.2	583.2	583.2	584.7	589.3	593.9	592.4
55°	555.8	551.2	548.2	543.6	536.0	537.5	536.0	539.1	543.6	548.2	551.2
57.5°	501.0	499.5	496.4	488.8	488.8	487.3	491.9	493.4	501.0	504.0	508.6
60°	452.3	447.7	447.7	441.6	441.6	441.6	446.2	450.7	456.8	458.4	461.4
62.5°	400.5	400.5	399.0	394.4	394.4	399.0	400.5	406.6	409.6	409.6	414.2
65°	351.8	350.2	348.7	350.2	351.8	351.8	356.3	359.4	362.4	363.9	365.5
67.5°	303.0	301.5	304.6	303.0	306.1	312.2	310.6	315.2	319.8	319.8	321.3
70°	257.4	260.4	258.9	261.9	260.4	263.4	268.0	269.5	269.5	271.1	275.6
72.5°	214.7	214.7	214.7	213.2	214.7	217.8	220.8	222.3	225.4	226.9	231.5
75°	173.6	173.6	170.6	173.6	173.6	176.6	179.7	179.7	179.7	182.7	187.3
77.5°	131.0	132.5	131.0	134.0	134.0	135.5	138.6	137.1	140.1	141.6	143.1
80°	95.9	94.4	94.4	94.4	95.9	95.9	99.0	100.5	100.5	105.1	102.0
82.5°	60.9	62.4	60.9	62.4	62.4	64.0	62.4	64.0	65.5	68.5	67.0
85°	35.0	33.5	33.5	35.0	33.5	33.5	35.0	33.5	35.0	33.5	35.0
87.5°	13.7	12.2	12.2	12.2	12.2	10.7	10.7	9.1	9.1	9.1	7.6
90°	4.6	5.1	5.5	6.3	7.0	7.8	8.6	9.1	9.5	10.0	10.5
92.5°	9.2	9.0	9.1	9.4	9.7	10.0	10.3	10.5	10.7	10.8	11.0
95°	15.3	13.7	14.0	14.7	15.4	16.0	16.7	17.2	17.7	18.2	18.7
97.5°	18.9	15.0	15.8	17.3	18.8	20.4	21.9	22.2	22.4	22.7	23.0
100°	23.6	17.1	17.9	19.5	21.2	22.8	24.4	25.2	26.0	26.7	27.5
102.5°	103.4	103.3	94.6	77.3	60.0	42.6	25.3	26.3	27.4	28.4	29.5
105°	141.7	143.1	130.1	104.1	78.1	52.1	26.1	27.1	28.2	29.2	30.3
107.5°	170.2	171.4	155.4	123.3	91.2	59.1	27.0	28.0	29.1	30.1	31.2
110°	197.8	198.8	185.0	157.5	130.0	102.5	75.0	65.5	55.9	46.4	36.9

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	224.0	224.9	224.1	222.5	220.9	219.3	217.7	176.7	135.6	94.6	53.5
115°	252.9	253.7	254.9	257.3	259.6	262.0	264.4	220.3	176.2	132.1	88.0
117.5°	279.2	280.2	281.0	282.6	284.3	285.9	287.5	273.9	260.3	246.6	233.0
120°	305.7	306.4	307.3	309.0	310.7	312.4	314.1	315.2	316.4	317.5	318.6
122.5°	330.0	330.8	331.7	333.6	335.5	337.4	339.3	339.9	340.5	341.0	341.6
125°	353.3	353.9	354.8	356.6	358.5	360.3	362.1	362.8	363.4	364.1	364.8
127.5°	375.9	376.6	377.3	378.8	380.2	381.7	383.1	384.0	385.0	385.9	386.8
130°	397.7	398.5	399.0	400.1	401.1	402.2	403.2	404.2	405.3	406.3	407.4
132.5°	418.0	418.6	419.1	420.2	421.2	422.3	423.3	424.2	425.0	425.9	426.8
135°	437.1	437.9	438.3	439.2	440.1	440.9	441.8	442.7	443.7	444.6	445.5
137.5°	454.4	455.0	455.5	456.4	457.4	458.3	459.3	460.3	461.2	462.2	463.1
140°	471.3	471.7	472.2	473.3	474.4	475.4	476.5	477.3	478.2	479.0	479.9
142.5°	486.4	486.7	487.3	488.6	489.8	491.1	492.3	493.1	493.8	494.6	495.3
145°	499.6	499.6	500.4	502.0	503.7	505.3	506.9	507.6	508.2	508.9	509.6
147.5°	513.0	512.9	513.7	515.3	517.0	518.6	520.2	520.7	521.1	521.6	522.1
150°	525.2	524.9	525.7	527.2	528.7	530.2	531.7	532.3	532.9	533.4	534.0
152.5°	536.4	536.0	536.7	538.1	539.6	541.0	542.4	543.0	543.6	544.1	544.7
155°	547.1	546.7	547.3	548.4	549.6	550.7	551.9	552.5	553.0	553.6	554.1
157.5°	556.6	556.2	556.6	557.5	558.3	559.2	560.0	560.7	561.3	562.0	562.7
160°	565.0	564.7	565.0	565.6	566.1	566.7	567.3	567.9	568.5	569.0	569.6
162.5°	571.9	571.6	571.8	572.3	572.8	573.2	573.7	574.4	575.0	575.7	576.4
165°	577.9	577.6	577.7	578.0	578.3	578.6	578.9	579.6	580.2	580.9	581.6
167.5°	582.6	582.3	582.4	582.7	583.0	583.3	583.6	584.3	584.9	585.6	586.3
170°	586.4	586.1	586.2	586.4	586.6	586.8	587.0	587.7	588.3	589.0	589.7
172.5°	589.0	588.7	588.8	589.0	589.2	589.4	589.6	590.3	590.9	591.6	592.3
175°	590.7	590.4	590.5	590.7	590.9	591.1	591.3	592.0	592.6	593.3	594.0
177.5°	591.6	591.3	591.3	591.4	591.5	591.6	591.7	592.4	593.0	593.7	594.4
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1888.3	1892.8	1882.2	1879.1	1882.2	1871.5	1874.5	1877.6	1877.6	1882.2	1885.2
5°	1778.6	1772.5	1761.9	1758.8	1755.8	1760.3	1757.3	1761.9	1763.4	1774.0	1775.6
7.5°	1670.5	1661.4	1652.2	1643.1	1640.0	1632.4	1640.0	1640.0	1650.7	1647.7	1655.3
10°	1542.6	1541.1	1528.9	1524.3	1518.2	1506.0	1522.8	1518.2	1525.8	1539.5	1542.6
12.5°	1448.2	1431.4	1439.0	1417.7	1425.3	1413.1	1414.7	1414.7	1426.8	1428.4	1425.3
15°	1358.3	1344.6	1324.8	1315.7	1311.1	1305.0	1324.8	1326.3	1317.2	1338.5	1330.9
17.5°	1267.0	1267.0	1248.7	1244.1	1231.9	1238.0	1235.0	1236.5	1233.5	1248.7	1256.3
20°	1187.8	1180.2	1174.1	1175.6	1160.4	1157.3	1154.3	1157.3	1168.0	1178.6	1181.7
22.5°	1123.8	1119.2	1104.0	1107.1	1094.9	1099.4	1096.4	1104.0	1105.5	1105.5	1116.2
25°	1062.9	1056.8	1058.3	1052.2	1047.7	1047.7	1043.1	1047.7	1053.8	1056.8	1058.3
27.5°	1017.2	1012.7	1005.0	1000.5	1003.5	995.9	1002.0	1006.6	1006.6	1003.5	1006.6
30°	962.4	965.4	965.4	950.2	956.3	953.3	957.8	960.9	960.9	962.4	959.4
32.5°	925.9	916.7	915.2	913.7	913.7	907.6	907.6	912.1	913.7	915.2	919.8
35°	877.1	877.1	869.5	874.1	868.0	869.5	868.0	869.5	872.6	868.0	872.6
37.5°	833.0	834.5	831.4	834.5	836.0	833.0	829.9	836.0	833.0	833.0	829.9
40°	794.9	793.4	794.9	794.9	794.9	796.4	793.4	793.4	793.4	790.3	787.3
42.5°	762.9	753.8	756.8	758.3	753.8	753.8	755.3	753.8	758.3	749.2	749.2
45°	717.2	714.2	715.7	715.7	718.8	714.2	717.2	718.8	714.2	712.7	709.6
47.5°	676.1	679.2	676.1	679.2	679.2	682.2	676.1	677.6	679.2	673.1	668.5
50°	635.0	635.0	639.6	638.0	639.6	636.5	636.5	635.0	636.5	633.5	628.9
52.5°	596.9	592.4	600.0	598.5	596.9	595.4	593.9	595.4	592.4	589.3	589.3
55°	549.7	549.7	554.3	555.8	555.8	552.8	549.7	551.2	549.7	548.2	546.7
57.5°	511.7	505.6	508.6	510.1	510.1	505.6	508.6	505.6	505.6	507.1	502.5
60°	462.9	462.9	459.9	464.4	464.4	461.4	461.4	462.9	459.9	458.4	456.8
62.5°	411.2	412.7	417.2	418.8	420.3	417.2	414.2	415.7	415.7	411.2	412.7
65°	367.0	370.0	376.1	374.6	371.6	373.1	370.0	371.6	367.0	368.5	363.9
67.5°	324.4	322.8	324.4	324.4	327.4	325.9	322.8	322.8	321.3	325.9	321.3
70°	278.7	278.7	278.7	278.7	280.2	281.7	278.7	275.6	277.1	274.1	272.6
72.5°	231.5	233.0	231.5	234.5	229.9	233.0	233.0	231.5	229.9	229.9	229.9
75°	187.3	190.3	185.8	187.3	185.8	188.8	187.3	187.3	184.3	182.7	184.3
77.5°	143.1	144.7	141.6	143.1	141.6	143.1	143.1	141.6	141.6	141.6	141.6
80°	102.0	103.5	102.0	100.5	99.0	102.0	99.0	100.5	102.0	100.5	103.5
82.5°	65.5	65.5	64.0	65.5	62.4	62.4	64.0	64.0	62.4	65.5	62.4
85°	32.0	32.0	35.0	32.0	30.5	30.5	30.5	32.0	30.5	33.5	32.0
87.5°	7.6	6.1	7.6	7.6	6.1	6.1	7.6	6.1	7.6	9.1	6.1
90°	10.7	10.8	11.0	11.2	11.4	11.6	11.4	11.2	11.0	10.8	10.7
92.5°	11.1	11.2	11.3	11.4	11.5	11.6	11.5	11.4	11.3	11.2	11.1
95°	18.9	18.8	18.7	18.6	18.5	18.4	18.5	18.6	18.7	18.8	18.9
97.5°	23.1	23.2	23.3	23.4	23.5	23.6	23.5	23.4	23.3	23.2	23.1
100°	27.9	28.0	28.2	28.3	28.5	28.7	28.5	28.3	28.2	28.0	27.9
102.5°	30.0	30.1	30.4	30.7	31.0	31.3	31.0	30.7	30.4	30.1	30.0
105°	30.8	31.0	31.4	31.8	32.2	32.6	32.2	31.8	31.4	31.0	30.8
107.5°	31.7	31.9	32.3	32.6	33.0	33.4	33.0	32.6	32.3	31.9	31.7
110°	32.1	32.3	32.7	33.0	33.4	33.8	33.4	33.0	32.7	32.3	32.1

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	33.0	33.1	33.4	33.7	34.0	34.3	34.0	33.7	33.4	33.1	33.0
115°	66.0	62.6	55.7	48.8	42.0	35.1	42.0	48.8	55.7	62.6	66.0
117.5°	226.2	213.7	188.8	163.9	138.9	114.0	138.9	163.9	188.8	213.7	226.2
120°	319.2	312.8	299.9	287.1	274.2	261.4	274.2	287.1	299.9	312.8	319.2
122.5°	341.9	341.9	342.0	342.1	342.2	342.3	342.2	342.1	342.0	341.9	341.9
125°	365.1	365.2	365.5	365.8	366.0	366.3	366.0	365.8	365.5	365.2	365.1
127.5°	387.3	387.4	387.5	387.6	387.7	387.8	387.7	387.6	387.5	387.4	387.3
130°	407.9	407.9	407.8	407.7	407.6	407.5	407.6	407.7	407.8	407.9	407.9
132.5°	427.2	427.2	427.1	427.0	426.9	426.8	426.9	427.0	427.1	427.2	427.2
135°	446.0	445.9	445.7	445.6	445.4	445.2	445.4	445.6	445.7	445.9	446.0
137.5°	463.6	463.5	463.2	462.9	462.6	462.3	462.6	462.9	463.2	463.5	463.6
140°	480.3	480.1	479.6	479.1	478.7	478.2	478.7	479.1	479.6	480.1	480.3
142.5°	495.7	495.5	495.0	494.5	494.1	493.6	494.1	494.5	495.0	495.5	495.7
145°	509.9	509.7	509.2	508.7	508.2	507.7	508.2	508.7	509.2	509.7	509.9
147.5°	522.3	522.1	521.7	521.4	521.0	520.6	521.0	521.4	521.7	522.1	522.3
150°	534.3	534.1	533.6	533.1	532.7	532.2	532.7	533.1	533.6	534.1	534.3
152.5°	545.0	544.7	544.0	543.3	542.7	542.0	542.7	543.3	544.0	544.7	545.0
155°	554.4	554.0	553.3	552.5	551.8	551.0	551.8	552.5	553.3	554.0	554.4
157.5°	563.0	562.6	561.9	561.1	560.4	559.6	560.4	561.1	561.9	562.6	563.0
160°	569.9	569.6	568.9	568.2	567.6	566.9	567.6	568.2	568.9	569.6	569.9
162.5°	576.7	576.3	575.4	574.6	573.7	572.9	573.7	574.6	575.4	576.3	576.7
165°	581.9	581.6	580.9	580.2	579.6	578.9	579.6	580.2	580.9	581.6	581.9
167.5°	586.6	586.2	585.3	584.4	583.6	582.7	583.6	584.4	585.3	586.2	586.6
170°	590.0	589.6	588.7	587.8	587.0	586.1	587.0	587.8	588.7	589.6	590.0
172.5°	592.6	592.2	591.3	590.4	589.6	588.7	589.6	590.4	591.3	592.2	592.6
175°	594.3	593.8	592.9	591.9	591.0	590.0	591.0	591.9	592.9	593.8	594.3
177.5°	594.7	594.3	593.4	592.6	591.7	590.9	591.7	592.6	593.4	594.3	594.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1880.6	1892.8	1888.3	1871.5	1891.3	1891.3	1905.0	1905.0	1921.8	1927.8	1937.0
5°	1774.0	1783.2	1790.8	1783.2	1796.9	1818.2	1830.4	1841.0	1863.9	1873.0	1886.7
7.5°	1659.8	1676.6	1684.2	1684.2	1707.0	1731.4	1755.8	1771.0	1803.0	1815.2	1828.9
10°	1548.7	1568.5	1583.7	1582.2	1620.2	1635.5	1665.9	1700.9	1732.9	1751.2	1771.0
12.5°	1431.4	1442.1	1463.4	1493.9	1503.0	1530.4	1565.4	1609.6	1667.4	1684.2	1713.1
15°	1334.0	1362.9	1379.6	1393.3	1414.7	1440.6	1478.6	1521.3	1579.1	1615.7	1646.1
17.5°	1251.7	1289.8	1300.5	1297.4	1324.8	1364.4	1408.6	1440.6	1492.3	1536.5	1565.4
20°	1184.7	1200.0	1218.2	1225.8	1247.2	1289.8	1332.4	1369.0	1411.6	1446.6	1480.1
22.5°	1117.7	1129.9	1145.1	1158.8	1175.6	1200.0	1241.1	1286.8	1327.9	1361.4	1399.4
25°	1062.9	1070.5	1084.2	1094.9	1113.2	1129.9	1158.8	1209.1	1257.8	1277.6	1311.1
27.5°	1009.6	1015.7	1024.8	1037.0	1046.2	1062.9	1088.8	1129.9	1180.2	1200.0	1245.6
30°	962.4	967.0	976.1	982.2	986.8	1006.6	1026.4	1058.3	1096.4	1123.8	1157.3
32.5°	918.2	922.8	931.9	933.5	939.6	950.2	968.5	997.4	1030.9	1053.8	1082.7
35°	869.5	872.6	881.7	884.7	889.3	898.4	912.1	933.5	963.9	980.7	1006.6
37.5°	831.4	829.9	836.0	840.6	846.7	851.2	855.8	877.1	900.0	915.2	935.0
40°	790.3	787.3	788.8	794.9	797.9	804.0	804.0	825.3	840.6	852.8	868.0
42.5°	749.2	747.7	744.6	747.7	750.7	752.3	753.8	769.0	784.2	794.9	811.6
45°	708.1	706.6	703.5	705.0	705.0	708.1	712.7	718.8	729.4	738.5	747.7
47.5°	670.0	667.0	662.4	660.9	663.9	663.9	663.9	670.0	680.7	683.7	692.9
50°	630.4	625.9	619.8	616.7	616.7	615.2	618.2	619.8	628.9	632.0	639.6
52.5°	587.8	584.7	578.7	572.6	574.1	571.0	572.6	574.1	577.1	581.7	586.3
55°	545.2	539.1	534.5	533.0	528.4	528.4	523.8	529.9	528.4	529.9	536.0
57.5°	504.0	498.0	490.3	487.3	482.7	481.2	478.2	476.6	478.2	482.7	487.3
60°	455.3	452.3	447.7	443.1	440.1	435.5	432.5	432.5	430.9	430.9	432.5
62.5°	408.1	406.6	400.5	399.0	395.9	392.9	388.3	385.3	385.3	388.3	389.8
65°	362.4	360.9	356.3	354.8	347.2	344.1	342.6	341.1	338.1	338.1	338.1
67.5°	319.8	315.2	315.2	307.6	301.5	298.5	295.4	293.9	293.9	293.9	295.4
70°	272.6	272.6	268.0	263.4	257.4	258.9	254.3	249.7	249.7	246.7	248.2
72.5°	226.9	225.4	220.8	219.3	214.7	210.1	207.1	210.1	205.6	204.1	205.6
75°	182.7	181.2	178.2	175.1	176.6	172.1	167.5	166.0	166.0	162.9	162.9
77.5°	140.1	143.1	137.1	135.5	132.5	129.4	127.9	126.4	126.4	126.4	129.4
80°	97.5	99.0	99.0	95.9	97.5	92.9	92.9	92.9	88.3	89.8	91.4
82.5°	62.4	62.4	60.9	62.4	60.9	60.9	59.4	59.4	57.9	57.9	59.4
85°	35.0	33.5	32.0	35.0	33.5	33.5	32.0	32.0	32.0	32.0	32.0
87.5°	7.6	9.1	9.1	9.1	9.1	10.7	10.7	10.7	12.2	12.2	12.2
90°	10.5	10.0	9.5	9.1	8.6	7.8	7.0	6.3	5.5	5.1	4.6
92.5°	11.0	10.8	10.7	10.5	10.3	10.0	9.7	9.4	9.1	9.0	9.2
95°	18.7	18.2	17.7	17.2	16.7	16.0	15.4	14.7	14.0	13.7	15.3
97.5°	23.0	22.7	22.4	22.2	21.9	20.4	18.8	17.3	15.8	15.0	18.9
100°	27.5	26.7	26.0	25.2	24.4	22.8	21.2	19.5	17.9	17.1	23.6
102.5°	29.5	28.4	27.4	26.3	25.3	42.6	60.0	77.3	94.6	103.3	103.4
105°	30.3	29.2	28.2	27.1	26.1	52.1	78.1	104.1	130.1	143.1	141.7
107.5°	31.2	30.1	29.1	28.0	27.0	59.1	91.2	123.3	155.4	171.4	170.2
110°	36.9	46.4	55.9	65.5	75.0	102.5	130.0	157.5	185.0	198.8	197.8

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CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	53.5	94.6	135.6	176.7	217.7	219.3	220.9	222.5	224.1	224.9	224.0
115°	88.0	132.1	176.2	220.3	264.4	262.0	259.6	257.3	254.9	253.7	252.9
117.5°	233.0	246.6	260.3	273.9	287.5	285.9	284.3	282.6	281.0	280.2	279.2
120°	318.6	317.5	316.4	315.2	314.1	312.4	310.7	309.0	307.3	306.4	305.7
122.5°	341.6	341.0	340.5	339.9	339.3	337.4	335.5	333.6	331.7	330.8	330.0
125°	364.8	364.1	363.4	362.8	362.1	360.3	358.5	356.6	354.8	353.9	353.3
127.5°	386.8	385.9	385.0	384.0	383.1	381.7	380.2	378.8	377.3	376.6	375.9
130°	407.4	406.3	405.3	404.2	403.2	402.2	401.1	400.1	399.0	398.5	397.7
132.5°	426.8	425.9	425.0	424.2	423.3	422.3	421.2	420.2	419.1	418.6	418.0
135°	445.5	444.6	443.7	442.7	441.8	440.9	440.1	439.2	438.3	437.9	437.1
137.5°	463.1	462.2	461.2	460.3	459.3	458.3	457.4	456.4	455.5	455.0	454.4
140°	479.9	479.0	478.2	477.3	476.5	475.4	474.4	473.3	472.2	471.7	471.3
142.5°	495.3	494.6	493.8	493.1	492.3	491.1	489.8	488.6	487.3	486.7	486.4
145°	509.6	508.9	508.2	507.6	506.9	505.3	503.7	502.0	500.4	499.6	499.6
147.5°	522.1	521.6	521.1	520.7	520.2	518.6	517.0	515.3	513.7	512.9	513.0
150°	534.0	533.4	532.9	532.3	531.7	530.2	528.7	527.2	525.7	524.9	525.2
152.5°	544.7	544.1	543.6	543.0	542.4	541.0	539.6	538.1	536.7	536.0	536.4
155°	554.1	553.6	553.0	552.5	551.9	550.7	549.6	548.4	547.3	546.7	547.1
157.5°	562.7	562.0	561.3	560.7	560.0	559.2	558.3	557.5	556.6	556.2	556.6
160°	569.6	569.0	568.5	567.9	567.3	566.7	566.1	565.6	565.0	564.7	565.0
162.5°	576.4	575.7	575.0	574.4	573.7	573.2	572.8	572.3	571.8	571.6	571.9
165°	581.6	580.9	580.2	579.6	578.9	578.6	578.3	578.0	577.7	577.6	577.9
167.5°	586.3	585.6	584.9	584.3	583.6	583.3	583.0	582.7	582.4	582.3	582.6
170°	589.7	589.0	588.3	587.7	587.0	586.8	586.6	586.4	586.2	586.1	586.4
172.5°	592.3	591.6	590.9	590.3	589.6	589.4	589.2	589.0	588.8	588.7	589.0
175°	594.0	593.3	592.6	592.0	591.3	591.1	590.9	590.7	590.5	590.4	590.7
177.5°	594.4	593.7	593.0	592.4	591.7	591.6	591.5	591.4	591.3	591.3	591.6
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1981.1	1981.1	1981.1	1981.1
2.5°	1944.6	1944.6	1967.4	1991.8
5°	1902.0	1912.6	1949.2	1982.7
7.5°	1860.8	1879.1	1924.8	1967.4
10°	1810.6	1835.0	1891.3	1941.5
12.5°	1761.9	1784.7	1850.2	1906.5
15°	1693.3	1722.3	1792.3	1862.4
17.5°	1624.8	1653.7	1739.0	1821.2
20°	1544.1	1582.2	1678.1	1787.7
22.5°	1469.5	1516.7	1623.3	1711.6
25°	1387.3	1460.3	1559.3	1673.5
27.5°	1314.2	1387.3	1487.8	1603.5
30°	1231.9	1306.5	1410.1	1516.7
32.5°	1152.7	1221.3	1321.8	1452.7
35°	1070.5	1136.0	1233.5	1365.9
37.5°	995.9	1059.9	1166.5	1288.3
40°	922.8	989.8	1081.2	1203.0
42.5°	854.3	913.7	995.9	1117.7
45°	791.8	834.5	910.6	1024.8
47.5°	726.4	764.4	834.5	948.7
50°	665.5	697.4	758.3	864.9
52.5°	606.1	633.5	689.8	775.1
55°	552.8	578.7	619.8	703.5
57.5°	498.0	517.7	557.3	624.3
60°	444.7	462.9	494.9	549.7
62.5°	391.4	406.6	437.0	481.2
65°	344.1	356.3	379.2	417.2
67.5°	298.5	306.1	324.4	354.8
70°	254.3	260.4	275.6	300.0
72.5°	207.1	213.2	229.9	246.7
75°	167.5	169.0	181.2	194.9
77.5°	131.0	129.4	138.6	149.2
80°	89.8	94.4	102.0	106.6
82.5°	60.9	62.4	65.5	68.5
85°	33.5	35.0	35.0	39.6
87.5°	13.7	15.2	15.2	16.8
90°	3.5	2.5	1.4	0.4
92.5°	9.6	9.9	10.3	10.7
95°	18.4	21.6	24.7	27.9
97.5°	26.7	34.5	42.3	50.1
100°	36.7	49.7	62.8	75.8
102.5°	103.6	103.7	103.9	104.1
105°	138.8	136.0	133.1	130.3
107.5°	167.8	165.5	163.1	160.7
110°	195.8	193.8	191.8	189.8

TEST NUMBER: P1029219

CATALOG NUMBER: S122DIW-B1005D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	222.3	220.6	218.9	217.2
115°	251.3	249.6	248.0	246.4
117.5°	277.3	275.4	273.5	271.6
120°	304.2	302.8	301.3	299.9
122.5°	328.5	327.0	325.4	323.9
125°	352.0	350.8	349.5	348.3
127.5°	374.6	373.3	371.9	370.6
130°	396.2	394.7	393.1	391.6
132.5°	416.7	415.5	414.2	413.0
135°	435.6	434.1	432.5	431.0
137.5°	453.3	452.2	451.0	449.9
140°	470.6	469.8	469.1	468.3
142.5°	485.7	485.0	484.4	483.7
145°	499.7	499.8	499.9	500.0
147.5°	513.3	513.6	513.9	514.2
150°	525.9	526.6	527.2	527.9
152.5°	537.1	537.9	538.6	539.4
155°	548.0	548.9	549.7	550.6
157.5°	557.3	558.1	558.8	559.6
160°	565.6	566.1	566.7	567.3
162.5°	572.4	573.0	573.5	574.1
165°	578.4	579.0	579.5	580.1
167.5°	583.2	583.7	584.3	584.9
170°	587.0	587.5	588.1	588.7
172.5°	589.6	590.1	590.7	591.3
175°	591.4	592.1	592.7	593.4
177.5°	592.3	593.0	593.6	594.3
180°	592.1	592.1	592.1	592.1

(END OF REPORT)