

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332805-927

Luminaire Tested: **S124DIW-S1020D470U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332805-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1020D470U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5133.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

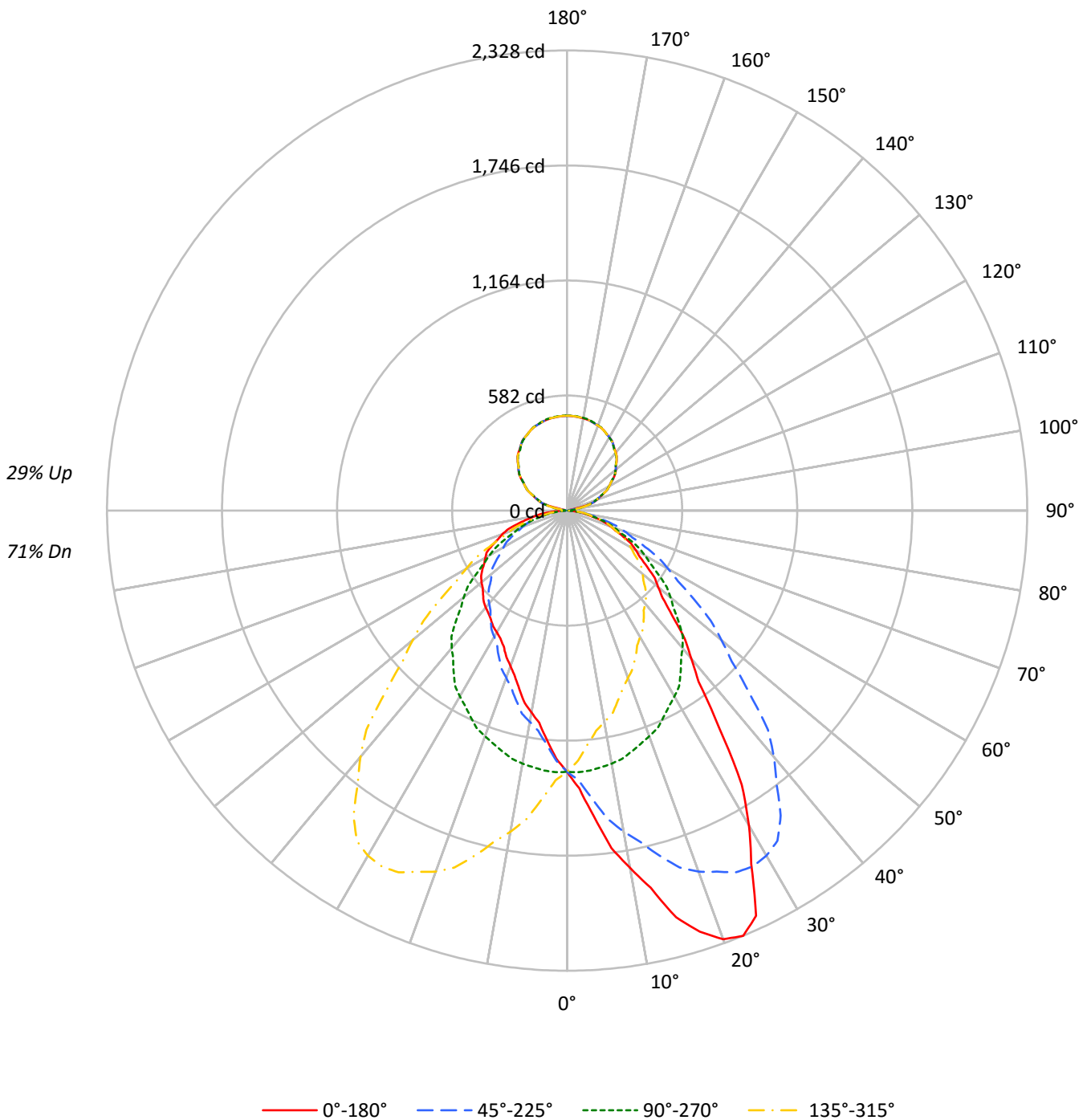
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	77	72	74	70	66	66	63	60	60	57	55	51
3	86	76	69	63	81	73	66	60	66	60	56	59	55	51	53	50	47	44
4	79	68	60	54	74	65	57	52	59	53	48	53	48	44	48	44	41	38
5	73	61	52	46	69	58	50	45	53	46	42	48	43	39	43	39	36	33
6	67	55	46	40	63	52	45	39	48	41	37	43	38	34	39	35	32	29
7	62	50	41	36	59	47	40	35	43	37	32	40	34	30	36	32	28	26
8	58	45	37	32	55	43	36	31	40	33	29	36	31	27	33	29	25	23
9	54	41	34	29	51	40	33	28	36	30	26	33	28	25	31	26	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10672	10672	10672	10672
5°	12568	10699	9444	10699
10°	15048	10653	8502	10653
15°	17804	10546	7809	10546
20°	19826	10436	7189	10436
25°	20147	10273	6762	10273
30°	17143	10118	6626	10118
35°	13180	9866	6628	9866
40°	10273	9569	6752	9569
45°	8566	9122	6865	9122
50°	7538	8577	7097	8577
55°	6906	7924	7385	7924
60°	6471	7340	7727	7340
65°	6025	6684	8013	6684
70°	5507	6035	8195	6035
75°	4919	5312	8097	5312
80°	4124	4351	7843	4351
85°	3047	3149	7503	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.5
10°-20°	397.0	7.7
20°-30°	629.5	12.3
30°-40°	700.6	13.6
40°-50°	637.7	12.4
50°-60°	521.1	10.2
60°-70°	372.0	7.2
70°-80°	204.9	4.0
80°-90°	57.3	1.1
90°-100°	16.4	0.3
100°-110°	104.7	2.0
110°-120°	200.2	3.9
120°-130°	254.2	5.0
130°-140°	272.0	5.3
140°-150°	254.3	5.0
150°-160°	205.1	4.0
160°-170°	132.3	2.6
170°-180°	45.6	0.9
0°-30°	1155.3	22.5
0°-40°	1855.8	36.2
0°-60°	3014.6	58.7
0°-90°	3648.8	71.1
90°-120°	321.3	6.3
90°-150°	1101.8	21.5
90°-180°	1485.0	28.9
0°-180°	5133.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1551	1320	1165	1320	1551	158
15°	2130	1262	934	1262	2130	602
25°	2262	1153	759	1153	2262	997
35°	1337	1001	672	1001	1337	849
45°	750	799	601	799	750	591
55°	491	563	525	563	491	443
65°	315	350	420	350	315	312
75°	158	170	260	170	158	168
85°	33	34	81	34	33	40
90°	11	1	11	1	11	6
95°	10	20	10	20	10	8
105°	102	108	102	108	102	89
115°	203	202	203	202	203	201
125°	286	284	286	284	286	255
135°	354	352	354	352	354	273
145°	408	406	408	406	408	255
155°	444	445	444	445	444	205
165°	467	469	467	469	467	132
175°	477	480	477	480	477	45
180°	480	480	480	480	480	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1407.0	1406.6	1402.2	1401.3	1398.2	1394.3	1393.4	1386.4	1372.4	1365.8	1364.1
5°	1550.9	1561.9	1547.6	1544.9	1543.3	1525.2	1515.8	1504.9	1479.7	1464.9	1453.4
7.5°	1722.7	1723.9	1717.8	1712.7	1698.8	1683.0	1659.4	1634.2	1604.2	1573.0	1549.4
10°	1835.7	1840.1	1833.0	1831.8	1804.0	1786.4	1751.4	1721.8	1687.8	1650.0	1615.6
12.5°	1954.9	1948.7	1945.1	1921.7	1916.5	1884.5	1843.8	1813.4	1761.0	1717.5	1671.6
15°	2130.3	2118.3	2110.6	2078.3	2062.4	2018.1	1974.8	1941.4	1873.0	1807.8	1758.5
17.5°	2233.2	2245.4	2227.6	2214.3	2173.3	2142.1	2097.9	2027.8	1974.3	1893.3	1831.1
20°	2307.8	2308.8	2299.0	2285.3	2253.0	2213.6	2165.4	2088.7	2024.7	1944.1	1858.7
22.5°	2327.9	2328.1	2323.9	2311.1	2286.7	2254.7	2206.1	2142.1	2064.5	1977.0	1891.6
25°	2261.8	2259.5	2264.5	2278.7	2269.4	2259.5	2231.7	2184.0	2111.7	2019.1	1927.1
27.5°	2015.9	2031.1	2058.9	2094.0	2127.7	2153.5	2160.7	2150.9	2106.1	2030.0	1933.6
30°	1839.0	1857.6	1878.4	1913.4	1981.3	2020.2	2063.0	2095.2	2077.2	2016.4	1926.6
32.5°	1644.5	1649.1	1680.0	1719.8	1782.0	1856.8	1924.5	1990.1	2011.9	1980.1	1905.1
35°	1337.4	1345.0	1378.4	1417.8	1494.0	1585.4	1687.3	1778.2	1853.2	1883.3	1845.0
37.5°	1091.3	1113.3	1136.9	1179.3	1246.3	1328.6	1434.5	1552.1	1664.0	1738.8	1751.6
40°	974.8	988.5	1005.4	1037.8	1094.7	1175.8	1266.7	1401.4	1520.3	1627.6	1662.6
42.5°	882.8	890.8	901.2	930.4	973.8	1054.4	1137.4	1255.9	1375.2	1503.6	1562.3
45°	750.3	758.5	776.0	793.0	825.9	881.7	958.9	1056.4	1176.3	1300.1	1408.5
47.5°	654.5	659.8	670.2	688.4	716.3	753.1	815.9	897.4	1008.5	1128.7	1244.2
50°	600.2	604.6	612.8	629.2	650.6	683.4	734.9	811.0	898.1	1019.1	1132.5
52.5°	557.3	559.0	565.1	576.2	593.2	620.8	663.1	726.0	807.0	914.9	1027.8
55°	490.7	492.9	498.4	506.6	521.3	538.8	571.2	618.3	689.0	782.6	880.6
57.5°	435.9	437.4	442.0	445.2	457.4	471.7	496.5	530.1	583.7	663.1	750.6
60°	400.8	399.8	405.3	408.0	416.2	428.3	447.4	479.7	526.2	590.3	670.8
62.5°	366.7	365.2	369.8	373.4	378.1	388.4	404.0	429.4	467.1	525.1	594.6
65°	315.4	313.2	316.0	320.4	324.7	330.3	341.7	364.2	394.3	435.9	489.0
67.5°	264.0	266.3	266.7	268.9	271.4	278.8	286.8	302.6	323.8	357.2	402.2
70°	233.3	233.9	236.1	236.1	237.7	244.2	250.8	260.2	280.9	311.6	348.3
72.5°	202.6	204.9	204.1	205.8	207.0	211.4	216.2	225.1	242.8	265.6	296.6
75°	157.7	159.4	159.4	159.9	161.5	163.2	167.0	173.6	186.2	203.2	224.5
77.5°	115.0	115.3	116.0	118.0	118.0	120.6	123.4	128.7	134.9	146.6	159.5
80°	88.7	89.8	89.3	90.4	90.4	92.5	93.6	100.2	103.0	110.6	121.0
82.5°	65.0	66.1	66.1	67.6	68.4	68.9	70.4	73.0	75.8	82.5	86.8
85°	32.9	34.0	32.9	34.0	35.6	36.1	37.8	38.3	40.6	42.1	46.0
87.5°	11.8	13.1	13.1	13.5	14.3	14.7	15.0	14.5	16.2	16.5	18.1
90°	10.8	10.6	10.5	10.3	10.1	9.8	9.3	8.9	8.4	7.9	7.3
92.5°	9.9	9.9	9.8	9.8	9.7	9.5	9.0	8.6	8.1	7.6	7.0
95°	10.4	10.3	10.2	10.1	10.1	9.8	9.3	8.9	8.4	7.9	7.8
97.5°	10.1	10.0	9.9	9.8	9.7	9.7	9.6	9.6	9.5	9.5	18.4
100°	10.1	10.0	9.9	9.8	9.7	10.4	11.7	13.1	14.4	15.8	26.8
102.5°	10.4	10.3	10.3	10.3	10.3	17.6	32.2	46.8	61.5	76.1	77.6
105°	102.3	105.2	108.1	110.9	113.8	114.9	114.2	113.4	112.7	112.0	111.6
107.5°	142.6	142.3	142.0	141.7	141.4	141.1	140.7	140.4	140.0	139.7	139.1
110°	160.1	159.9	159.6	159.4	159.1	159.0	158.8	158.7	158.5	158.4	157.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	177.6	177.4	177.1	176.7	176.4	176.3	176.3	176.3	176.4	176.4	176.2
115°	203.2	203.2	203.2	203.2	203.2	203.1	203.0	202.8	202.6	202.5	202.6
117.5°	229.2	229.3	229.3	229.3	229.3	229.3	229.4	229.4	229.4	229.5	229.3
120°	245.6	245.7	245.9	246.1	246.2	246.2	246.1	245.9	245.7	245.6	245.7
122.5°	261.7	261.8	262.0	262.1	262.3	262.3	262.2	262.1	262.1	262.0	261.8
125°	285.7	285.7	285.6	285.5	285.4	285.3	285.0	284.8	284.6	284.3	284.5
127.5°	307.0	307.0	307.0	307.1	307.2	307.3	307.3	307.4	307.4	307.4	307.1
130°	321.3	321.3	321.3	321.3	321.3	321.3	321.2	321.2	321.1	321.0	320.8
132.5°	334.5	334.6	334.7	334.7	334.8	334.8	334.7	334.6	334.5	334.5	334.1
135°	354.3	354.2	354.0	353.9	353.7	353.6	353.4	353.2	353.1	352.9	352.6
137.5°	371.3	371.4	371.4	371.5	371.5	371.5	371.2	371.1	370.9	370.7	370.3
140°	383.1	383.0	382.9	382.9	382.8	382.6	382.4	382.1	381.9	381.7	381.5
142.5°	392.8	392.8	392.8	392.8	392.8	392.7	392.5	392.3	392.1	392.0	391.9
145°	407.8	407.7	407.5	407.3	407.2	407.1	407.0	406.9	406.9	406.8	406.8
147.5°	420.3	420.2	420.1	420.0	419.9	419.9	419.8	419.8	419.7	419.6	419.7
150°	428.3	428.3	428.2	428.1	428.0	427.9	427.9	427.9	427.9	427.9	428.0
152.5°	435.2	435.2	435.3	435.4	435.4	435.4	435.2	435.1	435.0	434.8	435.0
155°	444.5	444.7	445.0	445.2	445.4	445.4	445.0	444.7	444.4	444.1	444.3
157.5°	452.3	452.7	453.0	453.4	453.8	453.8	453.4	453.0	452.7	452.3	452.5
160°	457.4	457.9	458.4	458.8	459.3	459.3	458.8	458.4	457.9	457.4	457.5
162.5°	461.4	461.9	462.5	463.0	463.6	463.6	463.1	462.6	462.2	461.7	461.8
165°	467.1	467.8	468.5	469.2	469.9	470.0	469.4	468.7	468.1	467.5	467.5
167.5°	471.3	472.1	472.9	473.7	474.5	474.6	473.9	473.2	472.5	471.7	471.8
170°	473.9	474.7	475.5	476.3	477.1	477.2	476.5	475.9	475.2	474.6	474.5
172.5°	475.3	476.2	477.1	477.9	478.8	478.9	478.2	477.6	477.0	476.3	476.3
175°	477.1	478.1	479.0	480.0	480.9	481.1	480.4	479.7	479.0	478.2	478.2
177.5°	478.3	479.0	479.8	480.6	481.3	481.5	480.9	480.5	479.9	479.4	479.3
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1364.5	1358.4	1354.0	1350.5	1340.8	1335.1	1330.8	1324.6	1317.6	1310.2	1301.0
5°	1441.9	1423.3	1409.6	1388.9	1369.1	1352.7	1335.7	1320.3	1301.7	1281.5	1266.7
7.5°	1523.3	1495.6	1460.2	1429.3	1394.7	1364.6	1337.7	1310.0	1281.4	1253.5	1228.0
10°	1575.0	1539.4	1500.0	1453.4	1409.6	1370.7	1334.6	1299.6	1265.6	1231.6	1202.6
12.5°	1630.6	1586.3	1528.0	1473.6	1424.5	1372.5	1328.9	1285.9	1245.0	1209.3	1175.4
15°	1705.3	1641.2	1573.9	1501.1	1436.5	1375.7	1316.0	1261.8	1215.8	1168.6	1135.8
17.5°	1751.3	1672.0	1595.0	1518.9	1440.6	1364.0	1299.6	1237.0	1179.4	1132.7	1091.2
20°	1781.5	1702.6	1606.8	1530.7	1437.6	1358.7	1284.2	1214.7	1154.4	1104.6	1061.8
22.5°	1807.8	1716.7	1620.8	1520.6	1427.9	1344.3	1262.7	1192.8	1131.2	1078.7	1037.8
25°	1822.0	1717.4	1613.4	1513.7	1408.5	1309.4	1235.5	1153.3	1087.6	1032.3	988.5
27.5°	1823.5	1711.7	1593.9	1483.2	1374.7	1282.4	1189.1	1115.6	1047.4	989.0	946.9
30°	1818.7	1702.1	1575.6	1455.6	1346.6	1246.4	1165.4	1085.4	1015.9	957.8	914.0
32.5°	1803.4	1681.9	1551.9	1425.0	1312.0	1214.0	1130.4	1054.3	986.5	929.3	883.4
35°	1759.0	1639.1	1500.6	1368.6	1253.0	1153.9	1078.3	1001.1	933.2	878.9	834.6
37.5°	1689.7	1581.3	1440.4	1303.9	1190.3	1090.8	1015.9	946.1	884.9	829.8	784.3
40°	1629.2	1533.9	1392.7	1259.6	1136.9	1042.2	972.1	908.0	847.2	795.2	751.9
42.5°	1559.6	1476.5	1346.2	1205.2	1087.0	991.8	923.4	865.9	808.7	760.6	717.3
45°	1435.4	1380.6	1257.9	1127.6	1004.4	914.6	849.4	799.0	750.8	703.7	667.6
47.5°	1292.5	1265.4	1162.1	1038.3	921.4	832.8	776.3	729.8	687.5	647.6	615.8
50°	1196.6	1183.4	1094.2	974.8	863.1	779.8	722.9	682.9	646.7	611.7	581.6
52.5°	1101.9	1101.5	1021.0	911.7	808.3	728.2	671.6	634.3	602.9	574.5	547.4
55°	957.3	972.6	909.7	812.1	719.6	647.3	596.4	563.0	541.1	517.5	497.3
57.5°	824.4	849.9	797.9	712.0	634.9	568.2	523.9	498.8	475.5	461.2	446.5
60°	737.7	761.8	721.3	649.0	576.2	519.2	477.0	454.6	434.3	424.5	414.0
62.5°	660.6	682.1	652.0	585.0	521.8	467.0	431.4	409.9	396.2	385.4	378.5
65°	550.4	568.5	542.7	494.0	439.7	395.9	366.9	349.9	336.8	332.4	324.7
67.5°	444.9	461.4	447.4	406.0	362.5	329.4	306.7	290.3	282.6	278.8	273.3
70°	382.2	398.7	383.9	347.8	314.3	286.5	265.1	255.7	247.6	245.9	238.2
72.5°	329.2	340.4	325.7	297.4	268.8	245.3	228.7	219.0	214.7	211.8	207.6
75°	247.0	256.8	247.0	225.1	204.8	188.4	174.1	170.3	165.4	163.7	161.0
77.5°	174.8	183.3	175.8	162.1	146.9	134.3	126.6	121.7	120.6	117.7	119.1
80°	133.6	139.1	132.0	122.7	110.6	101.9	96.4	93.6	90.4	89.3	91.4
82.5°	95.9	98.4	94.7	88.5	79.5	73.8	70.1	66.9	66.2	66.5	66.5
85°	49.8	49.3	48.7	43.3	40.6	36.7	34.5	34.0	33.4	34.5	35.6
87.5°	18.0	18.3	17.7	15.8	14.3	12.8	12.2	11.6	12.2	12.8	13.5
90°	6.7	6.0	5.3	4.6	3.7	2.9	2.0	1.1	2.0	2.9	3.7
92.5°	6.3	5.7	5.1	4.8	4.7	4.6	4.6	4.5	4.6	4.6	4.7
95°	7.8	7.7	7.6	8.9	11.6	14.3	17.0	19.7	17.0	14.3	11.6
97.5°	27.3	36.2	45.1	48.7	47.0	45.3	43.6	41.9	43.6	45.3	47.0
100°	37.8	48.8	59.8	64.6	63.2	61.8	60.3	58.9	60.3	61.8	63.2
102.5°	79.0	80.4	81.8	82.1	81.0	79.9	78.9	77.9	78.9	79.9	81.0
105°	111.2	110.8	110.4	110.0	109.5	109.0	108.5	108.1	108.5	109.0	109.5
107.5°	138.6	138.0	137.5	137.1	136.9	136.7	136.4	136.2	136.4	136.7	136.9
110°	157.4	156.9	156.4	156.1	155.8	155.6	155.3	155.1	155.3	155.6	155.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	175.9	175.8	175.5	175.2	174.8	174.4	173.9	173.5	173.9	174.4	174.8
115°	202.6	202.7	202.8	202.7	202.5	202.2	202.0	201.8	202.0	202.2	202.5
117.5°	229.1	228.9	228.8	228.5	228.2	227.9	227.6	227.3	227.6	227.9	228.2
120°	245.7	245.8	245.9	245.7	245.4	245.1	244.8	244.5	244.8	245.1	245.4
122.5°	261.7	261.6	261.5	261.3	261.2	260.9	260.8	260.5	260.8	260.9	261.2
125°	284.6	284.8	284.9	284.9	284.6	284.2	283.9	283.6	283.9	284.2	284.6
127.5°	306.7	306.3	306.0	305.8	305.7	305.6	305.5	305.5	305.5	305.6	305.7
130°	320.5	320.3	320.0	319.9	319.8	319.7	319.6	319.5	319.6	319.7	319.8
132.5°	333.8	333.6	333.3	333.0	332.9	332.7	332.6	332.5	332.6	332.7	332.9
135°	352.3	352.0	351.6	351.5	351.6	351.6	351.7	351.8	351.7	351.6	351.6
137.5°	370.0	369.6	369.3	369.2	369.1	369.1	369.0	369.0	369.0	369.1	369.1
140°	381.4	381.1	381.0	380.8	380.6	380.5	380.3	380.2	380.3	380.5	380.6
142.5°	391.8	391.7	391.6	391.4	391.1	390.9	390.5	390.2	390.5	390.9	391.1
145°	406.8	406.8	406.8	406.6	406.4	406.2	405.9	405.7	405.9	406.2	406.4
147.5°	419.8	419.9	419.9	419.8	419.3	418.8	418.4	418.0	418.4	418.8	419.3
150°	428.1	428.2	428.3	428.2	427.9	427.5	427.2	426.9	427.2	427.5	427.9
152.5°	435.1	435.3	435.4	435.4	435.1	434.8	434.6	434.4	434.6	434.8	435.1
155°	444.6	444.8	445.0	445.1	445.0	445.0	444.9	444.8	444.9	445.0	445.0
157.5°	452.7	453.0	453.3	453.4	453.5	453.5	453.6	453.7	453.6	453.5	453.5
160°	457.6	457.6	457.7	457.9	458.1	458.4	458.6	458.8	458.6	458.4	458.1
162.5°	461.8	461.9	462.0	462.2	462.5	462.8	463.1	463.4	463.1	462.8	462.5
165°	467.5	467.5	467.5	467.6	468.0	468.4	468.8	469.2	468.8	468.4	468.0
167.5°	471.8	471.9	471.9	472.1	472.6	473.0	473.4	473.8	473.4	473.0	472.6
170°	474.4	474.4	474.3	474.5	475.0	475.5	475.9	476.4	475.9	475.5	475.0
172.5°	476.2	476.1	476.0	476.3	476.7	477.2	477.7	478.2	477.7	477.2	476.7
175°	478.1	478.0	477.9	478.1	478.6	479.0	479.5	480.0	479.5	479.0	478.6
177.5°	479.2	479.0	479.0	479.1	479.5	480.0	480.5	480.9	480.5	480.0	479.5
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P332805-927

CATALOG NUMBER: S124DIW-S1020D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1296.6	1292.7	1287.0	1279.1	1272.5	1265.5	1263.8	1261.1	1266.4	1261.9	1260.7
5°	1254.1	1242.6	1227.8	1210.9	1200.9	1186.8	1184.0	1178.5	1173.1	1172.5	1167.0
7.5°	1209.1	1192.2	1172.8	1155.6	1139.6	1123.9	1113.8	1111.6	1103.5	1098.8	1093.3
10°	1180.2	1159.4	1136.9	1120.5	1101.8	1085.4	1074.0	1067.4	1061.8	1055.8	1050.4
12.5°	1146.0	1123.9	1105.3	1087.6	1065.5	1053.0	1034.0	1022.6	1021.6	1021.7	1007.4
15°	1106.2	1084.3	1055.8	1030.6	1018.6	994.5	984.1	971.0	962.7	954.5	948.0
17.5°	1060.8	1033.5	1011.3	982.4	959.3	940.2	926.5	918.6	906.3	894.6	886.2
20°	1032.3	1003.3	979.7	949.0	923.8	900.3	888.8	877.9	868.5	858.7	849.4
22.5°	1003.4	973.0	944.2	914.4	891.0	866.2	855.1	840.2	831.3	825.9	816.5
25°	957.8	925.0	892.1	863.6	839.6	817.6	802.9	791.3	781.5	777.1	771.1
27.5°	908.3	875.7	843.9	811.6	784.3	768.3	756.5	747.8	742.2	736.3	733.6
30°	876.8	842.8	808.9	778.7	753.5	737.7	726.7	720.7	716.3	713.6	710.8
32.5°	844.8	811.3	775.5	748.1	725.5	711.4	703.1	697.0	694.8	693.9	692.8
35°	793.5	759.5	726.7	702.1	680.7	675.3	668.1	664.8	663.8	667.6	669.2
37.5°	743.9	712.4	682.1	658.2	644.3	636.3	633.8	634.0	637.9	641.3	645.2
40°	711.9	681.3	652.8	632.0	618.9	613.9	612.8	615.5	620.0	623.8	628.1
42.5°	680.8	650.6	624.7	605.2	596.0	591.5	592.2	594.9	601.1	605.8	612.4
45°	632.6	607.4	582.2	566.3	558.6	559.7	559.7	564.6	570.6	577.7	584.9
47.5°	587.1	561.7	541.0	527.6	523.6	522.7	525.8	532.2	540.8	549.6	559.6
50°	556.4	532.3	514.2	502.2	497.8	499.5	503.8	509.8	520.2	531.2	541.6
52.5°	525.3	503.4	486.6	475.5	472.4	475.4	479.7	489.3	498.4	510.2	522.8
55°	477.0	458.4	445.2	437.0	435.9	437.6	442.5	452.9	466.0	480.9	492.9
57.5°	428.9	413.4	401.3	395.6	396.2	397.7	405.8	418.2	432.2	448.0	463.5
60°	396.5	382.2	372.4	368.0	368.5	371.9	381.7	393.2	410.7	426.0	442.5
62.5°	365.8	353.3	343.9	340.0	339.2	346.4	355.8	367.8	385.3	402.4	420.2
65°	316.6	306.7	299.0	296.8	298.5	304.0	316.0	331.8	346.7	364.7	383.3
67.5°	268.3	260.2	255.0	256.0	257.9	266.0	276.2	289.8	306.6	325.3	343.7
70°	237.7	230.0	225.6	226.2	229.5	239.3	248.1	261.7	279.9	299.0	314.3
72.5°	206.1	201.1	197.2	199.5	202.7	209.5	220.5	234.2	250.1	267.9	284.1
75°	158.3	158.3	156.1	157.7	162.6	169.2	177.4	191.7	207.6	221.8	235.0
77.5°	117.4	116.2	117.6	119.6	122.5	130.2	139.7	149.8	161.8	176.0	186.9
80°	89.8	90.4	93.1	96.4	97.5	103.5	113.4	122.7	132.0	144.0	154.4
82.5°	67.5	68.0	69.5	73.6	74.7	81.2	87.5	96.8	105.3	113.4	122.0
85°	36.7	36.7	39.5	41.0	43.8	48.2	52.0	57.5	65.2	70.7	78.8
87.5°	15.0	15.1	17.0	18.0	19.4	21.7	22.7	27.6	29.5	31.8	35.7
90°	4.6	5.3	6.0	6.7	7.3	7.9	8.4	8.9	9.3	9.8	10.1
92.5°	4.8	5.1	5.7	6.3	7.0	7.6	8.1	8.6	9.0	9.5	9.7
95°	8.9	7.6	7.7	7.8	7.8	7.9	8.4	8.9	9.3	9.8	10.1
97.5°	48.7	45.1	36.2	27.3	18.4	9.5	9.5	9.6	9.6	9.7	9.7
100°	64.6	59.8	48.8	37.8	26.8	15.8	14.4	13.1	11.7	10.4	9.7
102.5°	82.1	81.8	80.4	79.0	77.6	76.1	61.5	46.8	32.2	17.6	10.3
105°	110.0	110.4	110.8	111.2	111.6	112.0	112.7	113.4	114.2	114.9	113.8
107.5°	137.1	137.5	138.0	138.6	139.1	139.7	140.0	140.4	140.7	141.1	141.4
110°	156.1	156.4	156.9	157.4	157.9	158.4	158.5	158.7	158.8	159.0	159.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	175.2	175.5	175.8	175.9	176.2	176.4	176.4	176.3	176.3	176.3	176.4
115°	202.7	202.8	202.7	202.6	202.6	202.5	202.6	202.8	203.0	203.1	203.2
117.5°	228.5	228.8	228.9	229.1	229.3	229.5	229.4	229.4	229.4	229.3	229.3
120°	245.7	245.9	245.8	245.7	245.7	245.6	245.7	245.9	246.1	246.2	246.2
122.5°	261.3	261.5	261.6	261.7	261.8	262.0	262.1	262.1	262.2	262.3	262.3
125°	284.9	284.9	284.8	284.6	284.5	284.3	284.6	284.8	285.0	285.3	285.4
127.5°	305.8	306.0	306.3	306.7	307.1	307.4	307.4	307.4	307.3	307.3	307.2
130°	319.9	320.0	320.3	320.5	320.8	321.0	321.1	321.2	321.2	321.3	321.3
132.5°	333.0	333.3	333.6	333.8	334.1	334.5	334.5	334.6	334.7	334.8	334.8
135°	351.5	351.6	352.0	352.3	352.6	352.9	353.1	353.2	353.4	353.6	353.7
137.5°	369.2	369.3	369.6	370.0	370.3	370.7	370.9	371.1	371.2	371.5	371.5
140°	380.8	381.0	381.1	381.4	381.5	381.7	381.9	382.1	382.4	382.6	382.8
142.5°	391.4	391.6	391.7	391.8	391.9	392.0	392.1	392.3	392.5	392.7	392.8
145°	406.6	406.8	406.8	406.8	406.8	406.8	406.9	406.9	407.0	407.1	407.2
147.5°	419.8	419.9	419.9	419.8	419.7	419.6	419.7	419.8	419.8	419.9	419.9
150°	428.2	428.3	428.2	428.1	428.0	427.9	427.9	427.9	427.9	427.9	428.0
152.5°	435.4	435.4	435.3	435.1	435.0	434.8	435.0	435.1	435.2	435.4	435.4
155°	445.1	445.0	444.8	444.6	444.3	444.1	444.4	444.7	445.0	445.4	445.4
157.5°	453.4	453.3	453.0	452.7	452.5	452.3	452.7	453.0	453.4	453.8	453.8
160°	457.9	457.7	457.6	457.6	457.5	457.4	457.9	458.4	458.8	459.3	459.3
162.5°	462.2	462.0	461.9	461.8	461.8	461.7	462.2	462.6	463.1	463.6	463.6
165°	467.6	467.5	467.5	467.5	467.5	467.5	468.1	468.7	469.4	470.0	469.9
167.5°	472.1	471.9	471.9	471.8	471.8	471.7	472.5	473.2	473.9	474.6	474.5
170°	474.5	474.3	474.4	474.4	474.5	474.6	475.2	475.9	476.5	477.2	477.1
172.5°	476.3	476.0	476.1	476.2	476.3	476.3	477.0	477.6	478.2	478.9	478.8
175°	478.1	477.9	478.0	478.1	478.2	478.2	479.0	479.7	480.4	481.1	480.9
177.5°	479.1	479.0	479.0	479.2	479.3	479.4	479.9	480.5	480.9	481.5	481.3
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P332805-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1259.8	1258.9	1255.8	1255.5	1255.8	1258.9	1259.8	1260.7	1261.9	1266.4	1261.1
5°	1163.7	1161.0	1159.4	1165.4	1159.4	1161.0	1163.7	1167.0	1172.5	1173.1	1178.5
7.5°	1091.3	1089.2	1084.3	1082.8	1084.3	1089.2	1091.3	1093.3	1098.8	1103.5	1111.6
10°	1044.9	1042.7	1038.3	1037.2	1038.3	1042.7	1044.9	1050.4	1055.8	1061.8	1067.4
12.5°	1000.2	995.9	995.0	996.0	995.0	995.9	1000.2	1007.4	1021.7	1021.6	1022.6
15°	940.9	938.7	932.6	934.3	932.6	938.7	940.9	948.0	954.5	962.7	971.0
17.5°	882.3	879.7	872.4	878.8	872.4	879.7	882.3	886.2	894.6	906.3	918.6
20°	845.6	841.1	837.3	836.8	837.3	841.1	845.6	849.4	858.7	868.5	877.9
22.5°	810.5	806.6	806.2	802.6	806.2	806.6	810.5	816.5	825.9	831.3	840.2
25°	766.7	762.9	761.8	759.1	761.8	762.9	766.7	771.1	777.1	781.5	791.3
27.5°	733.1	731.2	729.2	730.1	729.2	731.2	733.1	733.6	736.3	742.2	747.8
30°	712.5	711.9	710.8	710.8	710.8	711.9	712.5	710.8	713.6	716.3	720.7
32.5°	695.4	695.3	695.9	695.9	695.9	695.3	695.4	692.8	693.9	694.8	697.0
35°	671.4	673.0	674.1	672.5	674.1	673.0	671.4	669.2	667.6	663.8	664.8
37.5°	649.7	651.3	652.9	654.7	652.9	651.3	649.7	645.2	641.3	637.9	634.0
40°	633.0	636.9	638.0	640.7	638.0	636.9	633.0	628.1	623.8	620.0	615.5
42.5°	617.3	621.5	624.4	625.0	624.4	621.5	617.3	612.4	605.8	601.1	594.9
45°	593.1	597.5	601.3	601.3	601.3	597.5	593.1	584.9	577.7	570.6	564.6
47.5°	568.0	574.3	578.2	579.2	578.2	574.3	568.0	559.6	549.6	540.8	532.2
50°	551.0	558.6	562.4	565.1	562.4	558.6	551.0	541.6	531.2	520.2	509.8
52.5°	534.2	541.9	547.1	548.5	547.1	541.9	534.2	522.8	510.2	498.4	489.3
55°	505.5	516.4	522.4	524.7	522.4	516.4	505.5	492.9	480.9	466.0	452.9
57.5°	478.3	488.4	495.4	497.0	495.4	488.4	478.3	463.5	448.0	432.2	418.2
60°	457.2	468.3	477.0	478.6	477.0	468.3	457.2	442.5	426.0	410.7	393.2
62.5°	435.8	447.2	455.1	459.4	455.1	447.2	435.8	420.2	402.4	385.3	367.8
65°	398.7	410.2	417.9	419.5	417.9	410.2	398.7	383.3	364.7	346.7	331.8
67.5°	358.1	369.6	374.7	377.9	374.7	369.6	358.1	343.7	325.3	306.6	289.8
70°	329.7	339.0	344.4	347.2	344.4	339.0	329.7	314.3	299.0	279.9	261.7
72.5°	297.2	307.0	313.4	313.9	313.4	307.0	297.2	284.1	267.9	250.1	234.2
75°	247.6	256.3	259.6	259.6	259.6	256.3	247.6	235.0	221.8	207.6	191.7
77.5°	195.9	200.4	204.6	205.5	204.6	200.4	195.9	186.9	176.0	161.8	149.8
80°	162.6	165.4	168.7	168.7	168.7	165.4	162.6	154.4	144.0	132.0	122.7
82.5°	128.5	130.8	134.0	133.6	134.0	130.8	128.5	122.0	113.4	105.3	96.8
85°	77.8	82.7	82.1	81.0	82.1	82.7	77.8	78.8	70.7	65.2	57.5
87.5°	37.1	37.5	38.9	39.8	38.9	37.5	37.1	35.7	31.8	29.5	27.6
90°	10.3	10.5	10.6	10.8	10.6	10.5	10.3	10.1	9.8	9.3	8.9
92.5°	9.8	9.8	9.9	9.9	9.9	9.8	9.8	9.7	9.5	9.0	8.6
95°	10.1	10.2	10.3	10.4	10.3	10.2	10.1	10.1	9.8	9.3	8.9
97.5°	9.8	9.9	10.0	10.1	10.0	9.9	9.8	9.7	9.7	9.6	9.6
100°	9.8	9.9	10.0	10.1	10.0	9.9	9.8	9.7	10.4	11.7	13.1
102.5°	10.3	10.3	10.3	10.4	10.3	10.3	10.3	10.3	17.6	32.2	46.8
105°	110.9	108.1	105.2	102.3	105.2	108.1	110.9	113.8	114.9	114.2	113.4
107.5°	141.7	142.0	142.3	142.6	142.3	142.0	141.7	141.4	141.1	140.7	140.4
110°	159.4	159.6	159.9	160.1	159.9	159.6	159.4	159.1	159.0	158.8	158.7



TEST NUMBER: P332805-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	176.7	177.1	177.4	177.6	177.4	177.1	176.7	176.4	176.3	176.3	176.3
115°	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.1	203.0	202.8
117.5°	229.3	229.3	229.3	229.2	229.3	229.3	229.3	229.3	229.3	229.4	229.4
120°	246.1	245.9	245.7	245.6	245.7	245.9	246.1	246.2	246.2	246.1	245.9
122.5°	262.1	262.0	261.8	261.7	261.8	262.0	262.1	262.3	262.3	262.2	262.1
125°	285.5	285.6	285.7	285.7	285.7	285.6	285.5	285.4	285.3	285.0	284.8
127.5°	307.1	307.0	307.0	307.0	307.0	307.0	307.1	307.2	307.3	307.3	307.4
130°	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.2	321.2
132.5°	334.7	334.7	334.6	334.5	334.6	334.7	334.7	334.8	334.8	334.7	334.6
135°	353.9	354.0	354.2	354.3	354.2	354.0	353.9	353.7	353.6	353.4	353.2
137.5°	371.5	371.4	371.4	371.3	371.4	371.4	371.5	371.5	371.5	371.2	371.1
140°	382.9	382.9	383.0	383.1	383.0	382.9	382.9	382.8	382.6	382.4	382.1
142.5°	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.7	392.5	392.3
145°	407.3	407.5	407.7	407.8	407.7	407.5	407.3	407.2	407.1	407.0	406.9
147.5°	420.0	420.1	420.2	420.3	420.2	420.1	420.0	419.9	419.9	419.8	419.8
150°	428.1	428.2	428.3	428.3	428.3	428.2	428.1	428.0	427.9	427.9	427.9
152.5°	435.4	435.3	435.2	435.2	435.2	435.3	435.4	435.4	435.4	435.2	435.1
155°	445.2	445.0	444.7	444.5	444.7	445.0	445.2	445.4	445.4	445.0	444.7
157.5°	453.4	453.0	452.7	452.3	452.7	453.0	453.4	453.8	453.8	453.4	453.0
160°	458.8	458.4	457.9	457.4	457.9	458.4	458.8	459.3	459.3	458.8	458.4
162.5°	463.0	462.5	461.9	461.4	461.9	462.5	463.0	463.6	463.6	463.1	462.6
165°	469.2	468.5	467.8	467.1	467.8	468.5	469.2	469.9	470.0	469.4	468.7
167.5°	473.7	472.9	472.1	471.3	472.1	472.9	473.7	474.5	474.6	473.9	473.2
170°	476.3	475.5	474.7	473.9	474.7	475.5	476.3	477.1	477.2	476.5	475.9
172.5°	477.9	477.1	476.2	475.3	476.2	477.1	477.9	478.8	478.9	478.2	477.6
175°	480.0	479.0	478.1	477.1	478.1	479.0	480.0	480.9	481.1	480.4	479.7
177.5°	480.6	479.8	479.0	478.3	479.0	479.8	480.6	481.3	481.5	480.9	480.5
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P332805-927

CATALOG NUMBER: S124DIW-S1020D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1263.8	1265.5	1272.5	1279.1	1287.0	1292.7	1296.6	1301.0	1310.2	1317.6	1324.6
5°	1184.0	1186.8	1200.9	1210.9	1227.8	1242.6	1254.1	1266.7	1281.5	1301.7	1320.3
7.5°	1113.8	1123.9	1139.6	1155.6	1172.8	1192.2	1209.1	1228.0	1253.5	1281.4	1310.0
10°	1074.0	1085.4	1101.8	1120.5	1136.9	1159.4	1180.2	1202.6	1231.6	1265.6	1299.6
12.5°	1034.0	1053.0	1065.5	1087.6	1105.3	1123.9	1146.0	1175.4	1209.3	1245.0	1285.9
15°	984.1	994.5	1018.6	1030.6	1055.8	1084.3	1106.2	1135.8	1168.6	1215.8	1261.8
17.5°	926.5	940.2	959.3	982.4	1011.3	1033.5	1060.8	1091.2	1132.7	1179.4	1237.0
20°	888.8	900.3	923.8	949.0	979.7	1003.3	1032.3	1061.8	1104.6	1154.4	1214.7
22.5°	855.1	866.2	891.0	914.4	944.2	973.0	1003.4	1037.8	1078.7	1131.2	1192.8
25°	802.9	817.6	839.6	863.6	892.1	925.0	957.8	988.5	1032.3	1087.6	1153.3
27.5°	756.5	768.3	784.3	811.6	843.9	875.7	908.3	946.9	989.0	1047.4	1115.6
30°	726.7	737.7	753.5	778.7	808.9	842.8	876.8	914.0	957.8	1015.9	1085.4
32.5°	703.1	711.4	725.5	748.1	775.5	811.3	844.8	883.4	929.3	986.5	1054.3
35°	668.1	675.3	680.7	702.1	726.7	759.5	793.5	834.6	878.9	933.2	1001.1
37.5°	633.8	636.3	644.3	658.2	682.1	712.4	743.9	784.3	829.8	884.9	946.1
40°	612.8	613.9	618.9	632.0	652.8	681.3	711.9	751.9	795.2	847.2	908.0
42.5°	592.2	591.5	596.0	605.2	624.7	650.6	680.8	717.3	760.6	808.7	865.9
45°	559.7	559.7	558.6	566.3	582.2	607.4	632.6	667.6	703.7	750.8	799.0
47.5°	525.8	522.7	523.6	527.6	541.0	561.7	587.1	615.8	647.6	687.5	729.8
50°	503.8	499.5	497.8	502.2	514.2	532.3	556.4	581.6	611.7	646.7	682.9
52.5°	479.7	475.4	472.4	475.5	486.6	503.4	525.3	547.4	574.5	602.9	634.3
55°	442.5	437.6	435.9	437.0	445.2	458.4	477.0	497.3	517.5	541.1	563.0
57.5°	405.8	397.7	396.2	395.6	401.3	413.4	428.9	446.5	461.2	475.5	498.8
60°	381.7	371.9	368.5	368.0	372.4	382.2	396.5	414.0	424.5	434.3	454.6
62.5°	355.8	346.4	339.2	340.0	343.9	353.3	365.8	378.5	385.4	396.2	409.9
65°	316.0	304.0	298.5	296.8	299.0	306.7	316.6	324.7	332.4	336.8	349.9
67.5°	276.2	266.0	257.9	256.0	255.0	260.2	268.3	273.3	278.8	282.6	290.3
70°	248.1	239.3	229.5	226.2	225.6	230.0	237.7	238.2	245.9	247.6	255.7
72.5°	220.5	209.5	202.7	199.5	197.2	201.1	206.1	207.6	211.8	214.7	219.0
75°	177.4	169.2	162.6	157.7	156.1	158.3	158.3	161.0	163.7	165.4	170.3
77.5°	139.7	130.2	122.5	119.6	117.6	116.2	117.4	119.1	117.7	120.6	121.7
80°	113.4	103.5	97.5	96.4	93.1	90.4	89.8	91.4	89.3	90.4	93.6
82.5°	87.5	81.2	74.7	73.6	69.5	68.0	67.5	66.5	66.5	66.2	66.9
85°	52.0	48.2	43.8	41.0	39.5	36.7	36.7	35.6	34.5	33.4	34.0
87.5°	22.7	21.7	19.4	18.0	17.0	15.1	15.0	13.5	12.8	12.2	11.6
90°	8.4	7.9	7.3	6.7	6.0	5.3	4.6	3.7	2.9	2.0	1.1
92.5°	8.1	7.6	7.0	6.3	5.7	5.1	4.8	4.7	4.6	4.6	4.5
95°	8.4	7.9	7.8	7.8	7.7	7.6	8.9	11.6	14.3	17.0	19.7
97.5°	9.5	9.5	18.4	27.3	36.2	45.1	48.7	47.0	45.3	43.6	41.9
100°	14.4	15.8	26.8	37.8	48.8	59.8	64.6	63.2	61.8	60.3	58.9
102.5°	61.5	76.1	77.6	79.0	80.4	81.8	82.1	81.0	79.9	78.9	77.9
105°	112.7	112.0	111.6	111.2	110.8	110.4	110.0	109.5	109.0	108.5	108.1
107.5°	140.0	139.7	139.1	138.6	138.0	137.5	137.1	136.9	136.7	136.4	136.2
110°	158.5	158.4	157.9	157.4	156.9	156.4	156.1	155.8	155.6	155.3	155.1



TEST NUMBER: P332805-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	176.4	176.4	176.2	175.9	175.8	175.5	175.2	174.8	174.4	173.9	173.5
115°	202.6	202.5	202.6	202.6	202.7	202.8	202.7	202.5	202.2	202.0	201.8
117.5°	229.4	229.5	229.3	229.1	228.9	228.8	228.5	228.2	227.9	227.6	227.3
120°	245.7	245.6	245.7	245.7	245.8	245.9	245.7	245.4	245.1	244.8	244.5
122.5°	262.1	262.0	261.8	261.7	261.6	261.5	261.3	261.2	260.9	260.8	260.5
125°	284.6	284.3	284.5	284.6	284.8	284.9	284.9	284.6	284.2	283.9	283.6
127.5°	307.4	307.4	307.1	306.7	306.3	306.0	305.8	305.7	305.6	305.5	305.5
130°	321.1	321.0	320.8	320.5	320.3	320.0	319.9	319.8	319.7	319.6	319.5
132.5°	334.5	334.5	334.1	333.8	333.6	333.3	333.0	332.9	332.7	332.6	332.5
135°	353.1	352.9	352.6	352.3	352.0	351.6	351.5	351.6	351.6	351.7	351.8
137.5°	370.9	370.7	370.3	370.0	369.6	369.3	369.2	369.1	369.1	369.0	369.0
140°	381.9	381.7	381.5	381.4	381.1	381.0	380.8	380.6	380.5	380.3	380.2
142.5°	392.1	392.0	391.9	391.8	391.7	391.6	391.4	391.1	390.9	390.5	390.2
145°	406.9	406.8	406.8	406.8	406.8	406.8	406.6	406.4	406.2	405.9	405.7
147.5°	419.7	419.6	419.7	419.8	419.9	419.9	419.8	419.3	418.8	418.4	418.0
150°	427.9	427.9	428.0	428.1	428.2	428.3	428.2	427.9	427.5	427.2	426.9
152.5°	435.0	434.8	435.0	435.1	435.3	435.4	435.4	435.1	434.8	434.6	434.4
155°	444.4	444.1	444.3	444.6	444.8	445.0	445.1	445.0	445.0	444.9	444.8
157.5°	452.7	452.3	452.5	452.7	453.0	453.3	453.4	453.5	453.5	453.6	453.7
160°	457.9	457.4	457.5	457.6	457.6	457.7	457.9	458.1	458.4	458.6	458.8
162.5°	462.2	461.7	461.8	461.8	461.9	462.0	462.2	462.5	462.8	463.1	463.4
165°	468.1	467.5	467.5	467.5	467.5	467.5	467.6	468.0	468.4	468.8	469.2
167.5°	472.5	471.7	471.8	471.8	471.9	471.9	472.1	472.6	473.0	473.4	473.8
170°	475.2	474.6	474.5	474.4	474.4	474.3	474.5	475.0	475.5	475.9	476.4
172.5°	477.0	476.3	476.3	476.2	476.1	476.0	476.3	476.7	477.2	477.7	478.2
175°	479.0	478.2	478.2	478.1	478.0	477.9	478.1	478.6	479.0	479.5	480.0
177.5°	479.9	479.4	479.3	479.2	479.0	479.0	479.1	479.5	480.0	480.5	480.9
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P332805-927

CATALOG NUMBER: S124DIW-S1020D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1330.8	1335.1	1340.8	1350.5	1354.0	1358.4	1364.5	1364.1	1365.8	1372.4	1386.4
5°	1335.7	1352.7	1369.1	1388.9	1409.6	1423.3	1441.9	1453.4	1464.9	1479.7	1504.9
7.5°	1337.7	1364.6	1394.7	1429.3	1460.2	1495.6	1523.3	1549.4	1573.0	1604.2	1634.2
10°	1334.6	1370.7	1409.6	1453.4	1500.0	1539.4	1575.0	1615.6	1650.0	1687.8	1721.8
12.5°	1328.9	1372.5	1424.5	1473.6	1528.0	1586.3	1630.6	1671.6	1717.5	1761.0	1813.4
15°	1316.0	1375.7	1436.5	1501.1	1573.9	1641.2	1705.3	1758.5	1807.8	1873.0	1941.4
17.5°	1299.6	1364.0	1440.6	1518.9	1595.0	1672.0	1751.3	1831.1	1893.3	1974.3	2027.8
20°	1284.2	1358.7	1437.6	1530.7	1606.8	1702.6	1781.5	1858.7	1944.1	2024.7	2088.7
22.5°	1262.7	1344.3	1427.9	1520.6	1620.8	1716.7	1807.8	1891.6	1977.0	2064.5	2142.1
25°	1235.5	1309.4	1408.5	1513.7	1613.4	1717.4	1822.0	1927.1	2019.1	2111.7	2184.0
27.5°	1189.1	1282.4	1374.7	1483.2	1593.9	1711.7	1823.5	1933.6	2030.0	2106.1	2150.9
30°	1165.4	1246.4	1346.6	1455.6	1575.6	1702.1	1818.7	1926.6	2016.4	2077.2	2095.2
32.5°	1130.4	1214.0	1312.0	1425.0	1551.9	1681.9	1803.4	1905.1	1980.1	2011.9	1990.1
35°	1078.3	1153.9	1253.0	1368.6	1500.6	1639.1	1759.0	1845.0	1883.3	1853.2	1778.2
37.5°	1015.9	1090.8	1190.3	1303.9	1440.4	1581.3	1689.7	1751.6	1738.8	1664.0	1552.1
40°	972.1	1042.2	1136.9	1259.6	1392.7	1533.9	1629.2	1662.6	1627.6	1520.3	1401.4
42.5°	923.4	991.8	1087.0	1205.2	1346.2	1476.5	1559.6	1562.3	1503.6	1375.2	1255.9
45°	849.4	914.6	1004.4	1127.6	1257.9	1380.6	1435.4	1408.5	1300.1	1176.3	1056.4
47.5°	776.3	832.8	921.4	1038.3	1162.1	1265.4	1292.5	1244.2	1128.7	1008.5	897.4
50°	722.9	779.8	863.1	974.8	1094.2	1183.4	1196.6	1132.5	1019.1	898.1	811.0
52.5°	671.6	728.2	808.3	911.7	1021.0	1101.5	1101.9	1027.8	914.9	807.0	726.0
55°	596.4	647.3	719.6	812.1	909.7	972.6	957.3	880.6	782.6	689.0	618.3
57.5°	523.9	568.2	634.9	712.0	797.9	849.9	824.4	750.6	663.1	583.7	530.1
60°	477.0	519.2	576.2	649.0	721.3	761.8	737.7	670.8	590.3	526.2	479.7
62.5°	431.4	467.0	521.8	585.0	652.0	682.1	660.6	594.6	525.1	467.1	429.4
65°	366.9	395.9	439.7	494.0	542.7	568.5	550.4	489.0	435.9	394.3	364.2
67.5°	306.7	329.4	362.5	406.0	447.4	461.4	444.9	402.2	357.2	323.8	302.6
70°	265.1	286.5	314.3	347.8	383.9	398.7	382.2	348.3	311.6	280.9	260.2
72.5°	228.7	245.3	268.8	297.4	325.7	340.4	329.2	296.6	265.6	242.8	225.1
75°	174.1	188.4	204.8	225.1	247.0	256.8	247.0	224.5	203.2	186.2	173.6
77.5°	126.6	134.3	146.9	162.1	175.8	183.3	174.8	159.5	146.6	134.9	128.7
80°	96.4	101.9	110.6	122.7	132.0	139.1	133.6	121.0	110.6	103.0	100.2
82.5°	70.1	73.8	79.5	88.5	94.7	98.4	95.9	86.8	82.5	75.8	73.0
85°	34.5	36.7	40.6	43.3	48.7	49.3	49.8	46.0	42.1	40.6	38.3
87.5°	12.2	12.8	14.3	15.8	17.7	18.3	18.0	18.1	16.5	16.2	14.5
90°	2.0	2.9	3.7	4.6	5.3	6.0	6.7	7.3	7.9	8.4	8.9
92.5°	4.6	4.6	4.7	4.8	5.1	5.7	6.3	7.0	7.6	8.1	8.6
95°	17.0	14.3	11.6	8.9	7.6	7.7	7.8	7.8	7.9	8.4	8.9
97.5°	43.6	45.3	47.0	48.7	45.1	36.2	27.3	18.4	9.5	9.5	9.6
100°	60.3	61.8	63.2	64.6	59.8	48.8	37.8	26.8	15.8	14.4	13.1
102.5°	78.9	79.9	81.0	82.1	81.8	80.4	79.0	77.6	76.1	61.5	46.8
105°	108.5	109.0	109.5	110.0	110.4	110.8	111.2	111.6	112.0	112.7	113.4
107.5°	136.4	136.7	136.9	137.1	137.5	138.0	138.6	139.1	139.7	140.0	140.4
110°	155.3	155.6	155.8	156.1	156.4	156.9	157.4	157.9	158.4	158.5	158.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.9	174.4	174.8	175.2	175.5	175.8	175.9	176.2	176.4	176.4	176.3
115°	202.0	202.2	202.5	202.7	202.8	202.7	202.6	202.6	202.5	202.6	202.8
117.5°	227.6	227.9	228.2	228.5	228.8	228.9	229.1	229.3	229.5	229.4	229.4
120°	244.8	245.1	245.4	245.7	245.9	245.8	245.7	245.7	245.6	245.7	245.9
122.5°	260.8	260.9	261.2	261.3	261.5	261.6	261.7	261.8	262.0	262.1	262.1
125°	283.9	284.2	284.6	284.9	284.9	284.8	284.6	284.5	284.3	284.6	284.8
127.5°	305.5	305.6	305.7	305.8	306.0	306.3	306.7	307.1	307.4	307.4	307.4
130°	319.6	319.7	319.8	319.9	320.0	320.3	320.5	320.8	321.0	321.1	321.2
132.5°	332.6	332.7	332.9	333.0	333.3	333.6	333.8	334.1	334.5	334.5	334.6
135°	351.7	351.6	351.6	351.5	351.6	352.0	352.3	352.6	352.9	353.1	353.2
137.5°	369.0	369.1	369.1	369.2	369.3	369.6	370.0	370.3	370.7	370.9	371.1
140°	380.3	380.5	380.6	380.8	381.0	381.1	381.4	381.5	381.7	381.9	382.1
142.5°	390.5	390.9	391.1	391.4	391.6	391.7	391.8	391.9	392.0	392.1	392.3
145°	405.9	406.2	406.4	406.6	406.8	406.8	406.8	406.8	406.8	406.9	406.9
147.5°	418.4	418.8	419.3	419.8	419.9	419.9	419.8	419.7	419.6	419.7	419.8
150°	427.2	427.5	427.9	428.2	428.3	428.2	428.1	428.0	427.9	427.9	427.9
152.5°	434.6	434.8	435.1	435.4	435.4	435.3	435.1	435.0	434.8	435.0	435.1
155°	444.9	445.0	445.0	445.1	445.0	444.8	444.6	444.3	444.1	444.4	444.7
157.5°	453.6	453.5	453.5	453.4	453.3	453.0	452.7	452.5	452.3	452.7	453.0
160°	458.6	458.4	458.1	457.9	457.7	457.6	457.6	457.5	457.4	457.9	458.4
162.5°	463.1	462.8	462.5	462.2	462.0	461.9	461.8	461.8	461.7	462.2	462.6
165°	468.8	468.4	468.0	467.6	467.5	467.5	467.5	467.5	467.5	468.1	468.7
167.5°	473.4	473.0	472.6	472.1	471.9	471.9	471.8	471.8	471.7	472.5	473.2
170°	475.9	475.5	475.0	474.5	474.3	474.4	474.4	474.5	474.6	475.2	475.9
172.5°	477.7	477.2	476.7	476.3	476.0	476.1	476.2	476.3	476.3	477.0	477.6
175°	479.5	479.0	478.6	478.1	477.9	478.0	478.1	478.2	478.2	479.0	479.7
177.5°	480.5	480.0	479.5	479.1	479.0	479.0	479.2	479.3	479.4	479.9	480.5
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1393.4	1394.3	1398.2	1401.3	1402.2	1406.6	1407.0
5°	1515.8	1525.2	1543.3	1544.9	1547.6	1561.9	1550.9
7.5°	1659.4	1683.0	1698.8	1712.7	1717.8	1723.9	1722.7
10°	1751.4	1786.4	1804.0	1831.8	1833.0	1840.1	1835.7
12.5°	1843.8	1884.5	1916.5	1921.7	1945.1	1948.7	1954.9
15°	1974.8	2018.1	2062.4	2078.3	2110.6	2118.3	2130.3
17.5°	2097.9	2142.1	2173.3	2214.3	2227.6	2245.4	2233.2
20°	2165.4	2213.6	2253.0	2285.3	2299.0	2308.8	2307.8
22.5°	2206.1	2254.7	2286.7	2311.1	2323.9	2328.1	2327.9
25°	2231.7	2259.5	2269.4	2278.7	2264.5	2259.5	2261.8
27.5°	2160.7	2153.5	2127.7	2094.0	2058.9	2031.1	2015.9
30°	2063.0	2020.2	1981.3	1913.4	1878.4	1857.6	1839.0
32.5°	1924.5	1856.8	1782.0	1719.8	1680.0	1649.1	1644.5
35°	1687.3	1585.4	1494.0	1417.8	1378.4	1345.0	1337.4
37.5°	1434.5	1328.6	1246.3	1179.3	1136.9	1113.3	1091.3
40°	1266.7	1175.8	1094.7	1037.8	1005.4	988.5	974.8
42.5°	1137.4	1054.4	973.8	930.4	901.2	890.8	882.8
45°	958.9	881.7	825.9	793.0	776.0	758.5	750.3
47.5°	815.9	753.1	716.3	688.4	670.2	659.8	654.5
50°	734.9	683.4	650.6	629.2	612.8	604.6	600.2
52.5°	663.1	620.8	593.2	576.2	565.1	559.0	557.3
55°	571.2	538.8	521.3	506.6	498.4	492.9	490.7
57.5°	496.5	471.7	457.4	445.2	442.0	437.4	435.9
60°	447.4	428.3	416.2	408.0	405.3	399.8	400.8
62.5°	404.0	388.4	378.1	373.4	369.8	365.2	366.7
65°	341.7	330.3	324.7	320.4	316.0	313.2	315.4
67.5°	286.8	278.8	271.4	268.9	266.7	266.3	264.0
70°	250.8	244.2	237.7	236.1	236.1	233.9	233.3
72.5°	216.2	211.4	207.0	205.8	204.1	204.9	202.6
75°	167.0	163.2	161.5	159.9	159.4	159.4	157.7
77.5°	123.4	120.6	118.0	118.0	116.0	115.3	115.0
80°	93.6	92.5	90.4	90.4	89.3	89.8	88.7
82.5°	70.4	68.9	68.4	67.6	66.1	66.1	65.0
85°	37.8	36.1	35.6	34.0	32.9	34.0	32.9
87.5°	15.0	14.7	14.3	13.5	13.1	13.1	11.8
90°	9.3	9.8	10.1	10.3	10.5	10.6	10.8
92.5°	9.0	9.5	9.7	9.8	9.8	9.9	9.9
95°	9.3	9.8	10.1	10.1	10.2	10.3	10.4
97.5°	9.6	9.7	9.7	9.8	9.9	10.0	10.1
100°	11.7	10.4	9.7	9.8	9.9	10.0	10.1
102.5°	32.2	17.6	10.3	10.3	10.3	10.3	10.4
105°	114.2	114.9	113.8	110.9	108.1	105.2	102.3
107.5°	140.7	141.1	141.4	141.7	142.0	142.3	142.6
110°	158.8	159.0	159.1	159.4	159.6	159.9	160.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	176.3	176.3	176.4	176.7	177.1	177.4	177.6
115°	203.0	203.1	203.2	203.2	203.2	203.2	203.2
117.5°	229.4	229.3	229.3	229.3	229.3	229.3	229.2
120°	246.1	246.2	246.2	246.1	245.9	245.7	245.6
122.5°	262.2	262.3	262.3	262.1	262.0	261.8	261.7
125°	285.0	285.3	285.4	285.5	285.6	285.7	285.7
127.5°	307.3	307.3	307.2	307.1	307.0	307.0	307.0
130°	321.2	321.3	321.3	321.3	321.3	321.3	321.3
132.5°	334.7	334.8	334.8	334.7	334.7	334.6	334.5
135°	353.4	353.6	353.7	353.9	354.0	354.2	354.3
137.5°	371.2	371.5	371.5	371.5	371.4	371.4	371.3
140°	382.4	382.6	382.8	382.9	382.9	383.0	383.1
142.5°	392.5	392.7	392.8	392.8	392.8	392.8	392.8
145°	407.0	407.1	407.2	407.3	407.5	407.7	407.8
147.5°	419.8	419.9	419.9	420.0	420.1	420.2	420.3
150°	427.9	427.9	428.0	428.1	428.2	428.3	428.3
152.5°	435.2	435.4	435.4	435.4	435.3	435.2	435.2
155°	445.0	445.4	445.4	445.2	445.0	444.7	444.5
157.5°	453.4	453.8	453.8	453.4	453.0	452.7	452.3
160°	458.8	459.3	459.3	458.8	458.4	457.9	457.4
162.5°	463.1	463.6	463.6	463.0	462.5	461.9	461.4
165°	469.4	470.0	469.9	469.2	468.5	467.8	467.1
167.5°	473.9	474.6	474.5	473.7	472.9	472.1	471.3
170°	476.5	477.2	477.1	476.3	475.5	474.7	473.9
172.5°	478.2	478.9	478.8	477.9	477.1	476.2	475.3
175°	480.4	481.1	480.9	480.0	479.0	478.1	477.1
177.5°	480.9	481.5	481.3	480.6	479.8	479.0	478.3
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0

(END OF REPORT)