

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: P332957-927

Luminaire Tested: **SA4XXRDIP-C1020D365U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332957-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D365U927-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4473.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

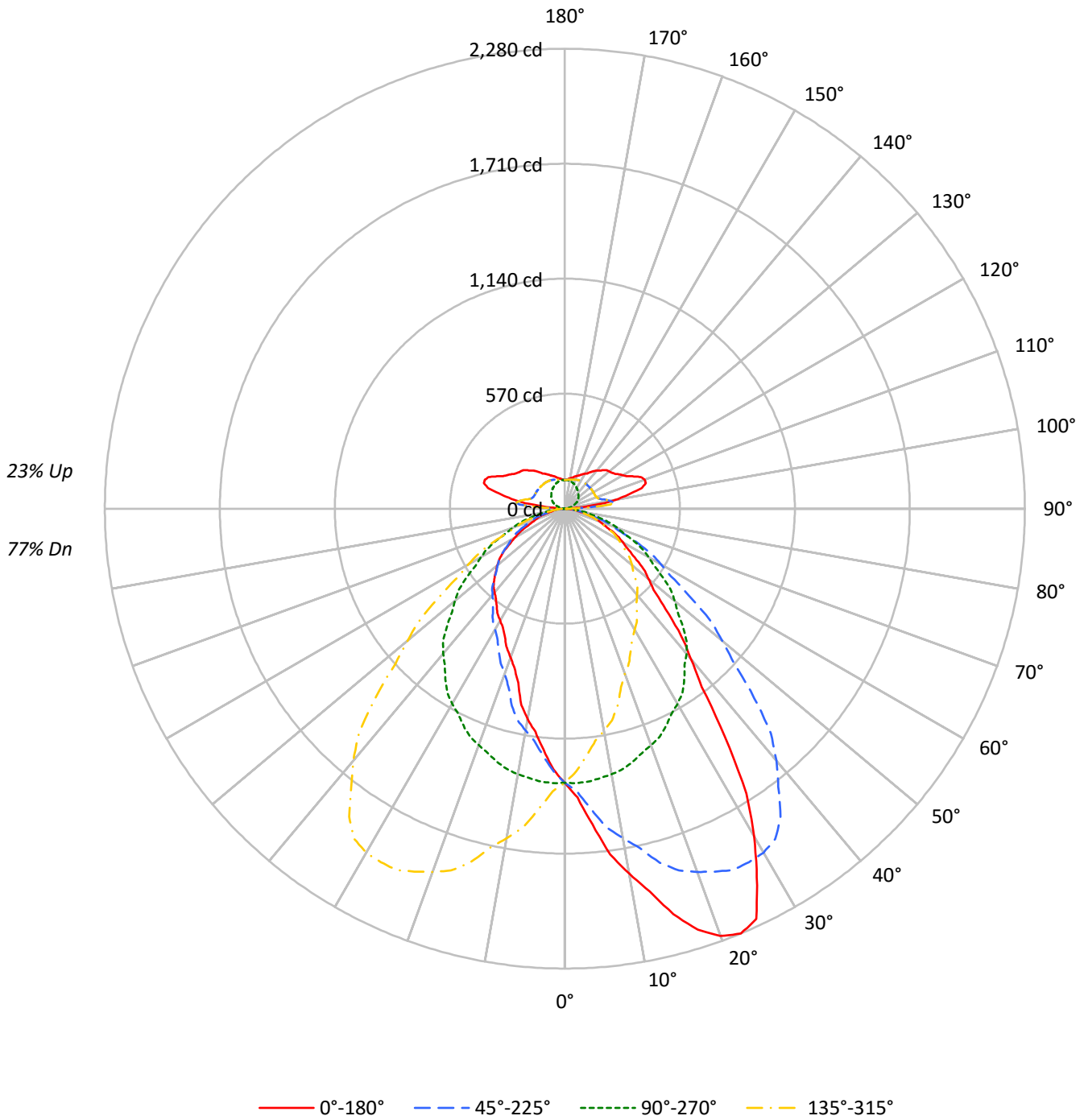
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77				77
1	105	100	97	93	100	96	92	89	87	85	82	80	78	76	73	71	70				66	
2	96	88	82	77	91	85	79	75	77	73	69	71	67	64	65	62	60				57	
3	88	78	71	65	84	75	69	63	69	64	59	63	59	55	58	55	52				49	
4	81	70	62	56	77	67	60	54	62	56	51	57	52	48	52	48	45				42	
5	74	63	55	49	71	60	53	47	56	49	45	51	46	42	47	43	40				37	
6	69	57	48	43	66	55	47	42	50	44	39	47	41	37	43	39	35				33	
7	64	51	43	38	61	50	42	37	46	40	35	43	37	33	40	35	32				29	
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	32	28				26	
9	56	43	36	30	53	42	35	30	39	33	28	36	31	27	34	29	26				24	
10	52	40	32	28	50	38	32	27	36	30	26	34	28	25	31	27	24				22	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10973	10973	10973	10973
5°	12729	11006	9728	11006
10°	15057	10958	8682	10958
15°	17393	10857	7460	10857
20°	19365	10717	6747	10717
25°	19991	10580	6263	10580
30°	17500	10414	5972	10414
35°	13623	10168	5797	10168
40°	10215	9886	5702	9886
45°	8066	9435	5651	9435
50°	6810	8913	5488	8913
55°	5935	8341	5195	8341
60°	5339	7745	4598	7745
65°	4707	7104	3954	7104
70°	4239	6437	3567	6437
75°	3553	5705	3041	5705
80°	3003	4863	2850	4863
85°	2538	3798	2538	3798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	2.9
10°-20°	397.3	8.9
20°-30°	621.4	13.9
30°-40°	690.7	15.4
40°-50°	612.9	13.7
50°-60°	477.6	10.7
60°-70°	312.7	7.0
70°-80°	153.8	3.4
80°-90°	38.7	0.9
90°-100°	102.9	2.3
100°-110°	214.2	4.8
110°-120°	191.9	4.3
120°-130°	161.4	3.6
130°-140°	134.6	3.0
140°-150°	102.8	2.3
150°-160°	72.3	1.6
160°-170°	42.5	1.0
170°-180°	13.8	0.3
0°-30°	1150.3	25.7
0°-40°	1841.1	41.2
0°-60°	2931.5	65.5
0°-90°	3436.6	76.8
90°-120°	509.0	11.4
90°-150°	907.8	20.3
90°-180°	1036.0	23.2
0°-180°	4473.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1359	1359	1359	1359	1359	
5°	1571	1358	1200	1358	1571	159
15°	2081	1299	893	1299	2081	592
25°	2244	1188	703	1188	2244	996
35°	1382	1032	588	1032	1382	866
45°	706	826	495	826	706	560
55°	422	593	369	593	422	384
65°	246	372	207	372	246	248
75°	114	183	98	183	114	125
85°	27	41	27	41	27	31
90°	6	0	6	0	6	6
95°	68	9	68	9	68	106
105°	394	33	394	33	394	389
115°	378	58	378	58	378	375
125°	302	80	302	80	302	274
135°	270	96	270	96	270	208
145°	220	110	220	110	220	140
155°	184	125	184	125	184	86
165°	161	136	161	136	161	46
175°	145	142	145	142	145	14
180°	142	142	142	142	142	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1433.7	1437.7	1433.7	1433.3	1428.9	1427.6	1425.8	1420.1	1409.6	1403.5	1404.8
5°	1570.7	1584.3	1576.7	1575.6	1563.5	1551.5	1543.8	1526.3	1507.7	1495.1	1484.6
7.5°	1729.0	1736.9	1732.1	1724.4	1704.9	1693.8	1676.1	1653.0	1619.6	1594.0	1570.7
10°	1836.8	1843.3	1841.2	1826.9	1812.7	1783.7	1767.2	1735.0	1692.7	1659.4	1628.1
12.5°	1942.8	1949.8	1930.5	1931.2	1904.2	1881.4	1855.3	1814.7	1765.9	1722.8	1683.8
15°	2081.1	2072.3	2072.3	2061.3	2031.2	1999.5	1972.6	1929.9	1868.5	1817.0	1762.8
17.5°	2189.3	2192.3	2187.8	2161.9	2138.3	2105.5	2056.3	2006.4	1949.5	1880.4	1825.0
20°	2254.1	2254.1	2249.2	2231.7	2201.0	2165.9	2112.8	2058.6	1986.3	1916.8	1854.3
22.5°	2280.4	2282.1	2276.3	2261.8	2234.3	2200.0	2154.8	2099.8	2025.3	1946.9	1869.6
25°	2244.3	2254.6	2255.7	2251.9	2243.7	2222.9	2184.0	2127.6	2060.8	1975.9	1892.6
27.5°	2060.5	2073.6	2085.1	2104.0	2129.2	2142.4	2144.1	2115.4	2057.1	1975.5	1891.7
30°	1877.3	1888.2	1923.9	1970.4	2006.5	2039.4	2067.9	2075.5	2042.7	1969.3	1881.1
32.5°	1674.0	1688.9	1724.5	1774.6	1834.8	1890.5	1954.4	1987.0	1986.2	1942.1	1860.5
35°	1382.3	1393.2	1426.1	1478.6	1550.9	1633.6	1735.0	1813.8	1867.4	1863.6	1813.8
37.5°	1114.8	1127.1	1160.3	1204.0	1274.1	1376.4	1474.5	1583.1	1682.4	1738.1	1721.4
40°	969.3	969.9	1002.2	1047.1	1112.8	1202.1	1308.8	1429.3	1539.9	1630.3	1647.8
42.5°	854.5	854.6	876.0	924.4	971.8	1055.7	1157.7	1277.3	1406.8	1511.2	1557.6
45°	706.5	711.4	728.9	758.0	795.2	866.3	947.9	1059.1	1204.3	1328.0	1405.3
47.5°	598.3	605.5	616.6	640.3	669.9	717.4	784.9	884.8	1002.8	1139.0	1248.9
50°	542.2	543.3	557.5	570.6	596.4	634.1	693.3	776.6	884.9	1015.9	1138.0
52.5°	494.0	493.8	502.3	519.0	539.9	569.3	617.1	692.8	789.0	906.3	1032.4
55°	421.7	424.5	431.0	444.1	460.0	480.9	518.6	575.6	651.2	751.4	865.9
57.5°	366.7	368.1	373.3	378.8	393.4	408.5	436.9	476.4	540.2	622.3	728.9
60°	330.7	331.3	333.0	341.2	352.7	366.9	386.1	419.5	473.2	548.2	632.6
62.5°	295.7	296.7	299.2	305.2	314.1	324.0	344.0	370.9	415.3	479.4	555.4
65°	246.4	247.0	250.8	253.0	260.2	268.9	283.7	301.7	332.4	386.1	443.6
67.5°	205.9	205.9	206.1	209.1	214.0	219.8	228.7	243.1	266.3	299.2	349.9
70°	179.6	179.6	180.7	182.4	185.1	190.0	195.0	205.9	222.9	249.7	288.6
72.5°	155.1	155.5	156.6	156.9	158.4	162.4	166.0	173.1	185.7	205.9	237.3
75°	113.9	115.6	118.3	120.5	123.2	122.7	126.5	130.9	134.8	146.8	164.9
77.5°	84.8	83.9	84.2	86.1	86.4	87.0	89.7	93.1	95.9	101.6	108.1
80°	64.6	64.6	66.2	66.8	66.2	66.8	69.6	71.2	72.3	74.5	80.5
82.5°	48.9	49.7	49.2	49.7	50.1	50.6	52.9	53.2	54.3	55.2	57.8
85°	27.4	28.0	28.4	27.4	27.4	27.4	28.4	29.0	30.1	29.5	30.7
87.5°	10.9	10.4	10.9	10.9	11.2	10.8	11.2	12.0	11.0	11.5	11.4
90°	5.9	5.9	6.2	5.9	5.6	5.6	5.3	5.1	4.8	5.1	4.5
92.5°	21.5	21.5	22.5	24.0	27.3	33.0	41.4	55.0	74.0	88.8	77.7
95°	68.3	71.9	77.0	85.6	99.4	126.5	164.1	207.5	234.6	228.1	172.2
97.5°	182.6	188.5	196.9	213.7	233.8	263.0	290.4	306.5	294.8	240.3	161.1
100°	256.7	259.0	267.4	284.5	308.8	329.5	343.3	337.6	296.8	225.1	146.2
102.5°	321.2	323.1	331.9	344.3	359.2	367.8	363.8	336.1	280.0	206.0	136.1
105°	394.0	395.6	399.5	401.8	401.2	389.8	362.0	313.5	249.5	183.6	127.4
107.5°	420.9	420.2	417.4	411.0	397.2	372.2	333.2	281.6	224.8	171.1	125.8
110°	421.4	418.8	413.8	402.0	382.1	351.4	310.8	262.4	212.5	166.8	126.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	408.1	404.1	397.0	382.8	360.2	329.4	291.0	248.2	205.6	164.9	127.6
115°	378.3	376.0	367.0	350.2	328.1	301.3	268.5	234.1	199.1	163.8	130.2
117.5°	347.9	346.2	337.2	323.1	304.2	281.4	255.6	227.1	196.1	163.5	132.9
120°	331.0	327.9	320.6	308.2	292.3	272.4	250.0	223.9	194.6	163.5	135.0
122.5°	317.5	314.4	308.2	297.7	284.2	266.8	246.4	221.3	192.8	163.3	137.0
125°	301.8	300.2	294.9	286.7	275.5	260.1	240.7	216.7	189.8	163.0	140.0
127.5°	292.6	291.0	286.5	279.2	268.0	253.4	234.1	211.1	185.8	162.3	142.4
130°	287.2	285.6	281.1	274.1	262.6	247.8	228.8	206.6	183.4	162.1	144.2
132.5°	281.2	279.6	275.3	267.4	256.1	241.3	222.7	201.9	181.2	161.9	145.8
135°	269.9	268.2	263.7	255.9	244.7	230.7	213.7	195.4	177.8	161.5	148.1
137.5°	255.9	253.9	250.2	242.5	232.0	219.4	204.9	189.6	174.9	161.5	149.5
140°	245.8	243.6	239.6	233.5	223.7	211.9	199.3	186.2	173.3	161.3	150.6
142.5°	235.0	233.5	230.0	224.3	215.6	205.4	194.6	183.1	172.0	161.3	151.5
145°	220.3	219.0	216.1	211.4	204.4	196.5	188.1	178.6	169.7	160.7	152.0
147.5°	207.3	206.8	204.7	200.6	195.4	189.3	182.5	175.0	167.6	159.7	152.3
150°	199.9	199.6	198.0	194.3	189.8	184.8	179.2	172.8	166.0	159.0	152.3
152.5°	193.2	192.9	191.9	188.9	185.1	181.0	175.9	170.3	164.2	157.9	151.9
155°	184.5	184.5	183.6	181.4	178.6	175.2	171.0	166.6	161.5	156.2	151.2
157.5°	176.9	176.9	176.4	174.7	172.6	169.9	166.4	162.6	158.8	154.5	150.4
160°	172.2	172.2	171.9	170.2	168.6	166.3	163.2	160.2	156.8	153.1	149.8
162.5°	167.7	167.9	167.6	166.0	164.8	162.7	160.3	157.7	155.0	151.8	149.1
165°	161.0	161.3	161.5	160.4	159.3	157.9	156.0	154.2	152.0	149.8	147.8
167.5°	155.7	155.9	156.0	155.2	154.6	153.8	152.3	151.0	149.3	147.7	146.5
170°	152.3	152.3	152.6	152.3	151.8	150.9	149.8	148.9	147.6	146.4	145.6
172.5°	148.9	149.4	149.6	149.4	149.1	148.5	147.7	147.2	146.0	145.0	144.7
175°	145.0	145.6	146.2	145.6	145.6	145.6	145.0	144.7	144.2	143.6	143.6
177.5°	142.8	143.1	143.6	143.4	143.6	143.4	143.4	143.1	143.0	142.8	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1400.4	1394.3	1391.2	1384.2	1375.9	1371.5	1367.5	1361.8	1354.4	1346.6	1340.8
5°	1471.5	1458.3	1441.9	1422.2	1404.7	1387.7	1372.9	1358.1	1341.2	1323.7	1306.2
7.5°	1544.4	1518.6	1490.6	1458.3	1427.0	1398.4	1372.1	1346.9	1318.3	1292.8	1269.6
10°	1595.3	1560.2	1521.3	1480.3	1439.2	1403.6	1368.6	1336.8	1301.7	1270.5	1244.2
12.5°	1636.5	1595.3	1548.5	1497.4	1448.0	1404.9	1364.6	1323.2	1283.3	1249.5	1214.4
15°	1704.8	1648.4	1585.4	1524.1	1460.0	1401.4	1347.2	1299.0	1253.5	1205.9	1172.5
17.5°	1751.8	1684.9	1608.3	1534.6	1458.9	1389.8	1327.2	1269.9	1217.4	1168.8	1129.0
20°	1779.8	1705.9	1621.0	1537.2	1452.3	1378.4	1311.1	1247.5	1193.3	1140.7	1099.6
22.5°	1795.6	1713.8	1621.0	1533.3	1445.3	1365.2	1291.3	1225.2	1166.2	1113.6	1068.1
25°	1800.6	1713.0	1618.3	1517.5	1421.1	1336.3	1259.6	1187.8	1122.1	1069.5	1021.4
27.5°	1793.7	1690.4	1593.4	1490.0	1390.6	1301.1	1220.6	1145.3	1079.4	1023.0	973.6
30°	1783.1	1672.5	1568.4	1461.1	1360.3	1274.4	1189.5	1117.2	1048.7	990.1	940.3
32.5°	1760.3	1650.6	1538.7	1428.7	1326.6	1238.0	1157.5	1084.7	1017.6	957.7	904.8
35°	1715.2	1604.0	1482.5	1369.7	1269.4	1177.4	1101.8	1031.7	967.7	903.6	847.7
37.5°	1655.7	1542.1	1421.3	1297.7	1197.4	1110.5	1041.2	975.3	912.8	854.3	792.4
40°	1599.7	1496.1	1371.3	1248.6	1145.7	1061.8	997.8	938.1	875.1	817.1	755.2
42.5°	1531.8	1443.6	1317.4	1194.3	1092.7	1011.9	952.2	893.8	836.5	780.3	715.7
45°	1418.4	1351.5	1233.3	1115.0	1012.6	932.6	877.9	826.4	776.0	722.3	661.6
47.5°	1288.5	1243.3	1141.1	1020.0	925.3	853.3	800.4	758.4	715.7	662.1	608.8
50°	1198.3	1169.2	1070.6	960.0	869.7	803.4	749.2	709.7	674.1	622.7	575.0
52.5°	1101.8	1086.4	1003.1	897.4	810.1	745.1	698.8	663.3	627.2	584.6	540.0
55°	955.1	963.3	892.6	801.2	719.1	664.3	622.1	592.6	561.9	525.8	491.2
57.5°	805.0	835.0	787.6	707.3	630.3	579.7	548.0	523.1	497.3	467.4	437.9
60°	715.2	740.4	713.6	642.9	575.6	528.5	498.9	479.7	454.0	426.6	404.2
62.5°	627.6	654.5	638.7	581.6	519.0	478.6	452.5	434.6	415.4	391.6	368.2
65°	517.5	535.0	527.4	488.0	443.6	409.1	385.0	371.9	354.3	336.8	316.0
67.5°	396.4	430.2	425.7	404.8	366.5	339.5	323.8	312.1	296.2	283.1	269.0
70°	325.8	357.0	356.5	339.5	318.7	293.5	282.6	272.7	258.5	245.9	234.4
72.5°	266.7	295.3	299.5	286.5	272.3	253.3	242.7	235.9	222.1	213.5	204.1
75°	186.7	207.6	213.0	213.0	206.4	196.6	187.3	182.9	173.1	165.4	159.9
77.5°	122.5	135.6	144.2	146.1	147.1	143.8	136.2	133.1	125.5	122.8	117.6
80°	86.5	95.3	105.1	108.4	111.1	110.1	106.8	104.6	97.5	94.7	92.5
82.5°	59.8	64.6	72.7	79.9	79.2	82.1	79.2	77.5	72.1	71.1	68.9
85°	31.2	31.8	32.9	37.8	40.6	41.6	42.1	41.0	39.5	39.5	35.6
87.5°	11.3	10.9	11.4	11.4	11.8	13.5	14.7	15.0	13.8	12.6	11.3
90°	3.9	3.9	2.2	2.2	2.0	1.7	0.9	0.3	0.9	1.7	2.0
92.5°	56.6	34.9	20.6	14.8	10.7	7.3	4.7	3.2	4.7	7.3	10.7
95°	105.3	59.3	35.0	23.2	16.6	12.9	10.1	9.3	10.1	12.9	16.6
97.5°	94.7	56.7	37.9	28.1	22.3	19.0	16.6	16.6	16.6	19.0	22.3
100°	89.0	57.4	40.9	31.9	26.6	23.2	21.3	21.3	21.3	23.2	26.6
102.5°	87.5	59.7	44.7	36.2	31.1	28.0	26.2	25.7	26.2	28.0	31.1
105°	88.2	65.0	51.5	43.4	38.3	35.0	33.6	32.8	33.6	35.0	38.3
107.5°	92.4	71.1	58.9	50.9	46.0	42.5	41.0	40.5	41.0	42.5	46.0
110°	95.5	75.9	63.5	56.0	50.9	47.6	46.2	45.6	46.2	47.6	50.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	98.9	80.3	68.4	60.9	55.8	52.8	51.1	50.5	51.1	52.8	55.8
115°	104.2	87.4	76.1	68.6	63.3	60.4	58.5	57.7	58.5	60.4	63.3
117.5°	109.6	94.1	83.5	75.7	70.7	67.6	65.8	65.0	65.8	67.6	70.7
120°	113.4	98.9	88.2	80.3	75.6	72.5	70.6	70.0	70.6	72.5	75.6
122.5°	117.0	103.3	92.7	85.1	79.9	77.0	75.0	74.5	75.0	77.0	79.9
125°	122.3	109.5	99.4	91.6	86.3	83.2	81.4	80.3	81.4	83.2	86.3
127.5°	127.0	115.2	105.4	97.5	92.0	88.5	86.4	85.6	86.4	88.5	92.0
130°	129.9	119.0	109.5	101.3	96.0	91.8	89.6	88.5	89.6	91.8	96.0
132.5°	132.8	122.2	112.6	105.0	99.2	95.2	92.3	91.4	92.3	95.2	99.2
135°	136.7	126.5	117.3	110.0	104.2	99.4	96.6	95.5	96.6	99.4	104.2
137.5°	139.3	129.9	121.3	114.3	108.2	103.7	100.6	99.6	100.6	103.7	108.2
140°	141.1	132.1	123.7	117.0	111.1	106.4	103.3	102.5	103.3	106.4	111.1
142.5°	142.4	134.2	126.0	119.5	113.8	109.3	106.5	105.6	106.5	109.3	113.8
145°	143.9	136.3	129.0	122.9	117.6	113.7	110.9	110.0	110.9	113.7	117.6
147.5°	145.2	138.6	131.7	126.2	121.8	117.8	115.3	115.0	115.3	117.8	121.8
150°	145.8	139.7	133.6	128.3	124.1	120.6	118.4	118.1	118.4	120.6	124.1
152.5°	146.3	140.6	135.1	130.2	126.5	123.3	121.1	121.0	121.1	123.3	126.5
155°	146.7	142.0	137.2	133.0	129.9	127.1	125.4	125.2	125.4	127.1	129.9
157.5°	146.7	142.9	138.9	135.5	132.8	130.7	129.1	129.1	129.1	130.7	132.8
160°	146.7	143.4	140.0	136.9	134.7	132.7	131.6	131.6	131.6	132.7	134.7
162.5°	146.7	143.8	140.7	138.2	136.3	134.5	133.6	133.8	133.6	134.5	136.3
165°	146.2	143.9	141.4	139.7	138.3	136.9	136.3	136.3	136.3	136.9	138.3
167.5°	145.4	143.9	142.0	140.7	139.9	138.9	138.6	138.9	138.6	138.9	139.9
170°	145.0	143.6	142.2	141.4	140.9	140.0	139.7	140.0	139.7	140.0	140.9
172.5°	144.6	143.4	142.4	141.8	141.5	140.9	140.9	141.1	140.9	140.9	141.5
175°	143.9	143.1	142.5	142.5	142.2	142.0	142.0	142.2	142.0	142.0	142.2
177.5°	143.1	142.8	142.5	142.5	142.5	142.3	142.5	142.8	142.5	142.3	142.5
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P332957-927

CATALOG NUMBER: SA4XXRDIP-C1020D365U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1334.7	1330.3	1324.6	1318.0	1310.2	1303.1	1300.1	1302.7	1304.0	1300.5	1300.1
5°	1294.1	1280.4	1269.4	1253.0	1239.8	1228.9	1221.2	1218.0	1219.0	1210.3	1208.1
7.5°	1248.4	1232.2	1214.3	1194.7	1176.5	1160.5	1152.0	1147.4	1138.1	1134.2	1127.5
10°	1219.0	1197.1	1179.6	1156.6	1135.8	1116.7	1107.3	1099.6	1090.4	1086.0	1076.7
12.5°	1188.8	1163.4	1144.1	1120.2	1099.0	1075.9	1067.0	1052.8	1038.2	1029.0	1017.1
15°	1146.2	1115.6	1092.0	1063.5	1038.3	1012.0	988.5	962.2	952.4	931.5	919.5
17.5°	1096.4	1065.2	1036.1	997.9	959.0	926.4	901.3	876.1	861.0	847.7	841.6
20°	1063.5	1035.1	994.5	950.1	906.9	870.8	850.5	834.1	817.6	808.3	801.8
22.5°	1032.4	996.0	949.0	901.1	857.9	829.6	812.4	795.5	782.1	773.2	764.5
25°	980.2	932.6	882.8	828.1	798.4	773.8	755.2	741.5	733.3	721.8	717.4
27.5°	926.7	869.0	814.0	777.2	746.4	723.9	707.7	697.4	687.0	679.6	673.9
30°	885.5	827.0	777.7	742.6	711.4	692.8	679.6	667.6	659.3	653.3	649.0
32.5°	844.8	786.2	744.8	707.1	682.5	664.3	650.3	641.3	634.9	627.0	624.4
35°	785.8	733.8	697.7	663.8	638.6	622.1	611.2	601.8	596.4	594.2	592.6
37.5°	729.2	686.7	647.8	620.0	597.5	584.6	571.6	567.0	563.3	559.4	561.1
40°	693.3	653.3	618.9	589.2	571.2	557.0	549.3	543.8	540.5	540.5	540.5
42.5°	662.2	623.1	589.5	563.0	544.9	532.8	524.3	519.7	518.6	518.2	520.8
45°	613.9	577.7	543.8	521.9	506.6	494.5	489.6	485.8	485.8	488.0	488.5
47.5°	566.0	532.2	504.9	480.4	466.4	458.8	454.6	452.6	452.8	455.0	457.5
50°	536.7	503.3	476.4	454.6	441.4	434.3	430.5	429.4	430.5	430.5	434.3
52.5°	504.7	474.8	448.4	430.0	415.1	408.4	406.3	404.8	405.4	407.3	408.8
55°	457.8	431.0	405.8	388.2	377.3	373.0	368.0	368.5	367.5	368.5	368.5
57.5°	410.8	386.7	363.3	349.4	339.8	333.4	328.0	329.5	328.0	327.7	326.9
60°	380.6	354.3	335.7	323.1	312.1	306.7	301.7	302.9	301.2	300.1	297.9
62.5°	347.8	325.8	308.1	296.0	287.2	280.8	275.9	274.8	271.0	267.3	262.4
65°	300.1	282.0	266.2	254.7	246.4	241.5	237.7	234.4	226.2	217.4	213.0
67.5°	253.8	240.7	225.9	216.2	209.5	203.0	195.7	190.1	182.4	177.7	174.9
70°	223.9	211.4	198.8	189.5	182.4	176.3	168.1	164.3	158.8	156.6	153.9
72.5°	195.5	183.8	172.1	163.7	156.1	151.4	144.9	141.1	138.6	137.8	135.1
75°	152.3	142.9	134.2	126.5	120.5	117.2	114.5	111.7	110.6	105.7	103.0
77.5°	111.1	105.0	99.4	94.0	89.7	87.5	82.2	79.1	77.2	74.9	74.4
80°	86.5	82.1	76.7	73.4	67.3	65.2	63.0	62.4	61.9	61.3	60.8
82.5°	65.0	60.7	55.2	53.2	51.6	50.3	49.0	48.4	47.8	48.2	48.1
85°	32.9	30.7	30.7	30.1	29.5	29.0	28.4	28.4	28.0	28.4	28.0
87.5°	11.4	10.9	11.3	10.5	11.0	11.1	10.6	10.6	11.2	10.3	10.3
90°	2.2	2.2	3.9	3.9	4.5	5.1	4.8	5.1	5.3	5.6	5.6
92.5°	14.8	20.6	34.9	56.6	77.7	88.8	74.0	55.0	41.4	33.0	27.3
95°	23.2	35.0	59.3	105.3	172.2	228.1	234.6	207.5	164.1	126.5	99.4
97.5°	28.1	37.9	56.7	94.7	161.1	240.3	294.8	306.5	290.4	263.0	233.8
100°	31.9	40.9	57.4	89.0	146.2	225.1	296.8	337.6	343.3	329.5	308.8
102.5°	36.2	44.7	59.7	87.5	136.1	206.0	280.0	336.1	363.8	367.8	359.2
105°	43.4	51.5	65.0	88.2	127.4	183.6	249.5	313.5	362.0	389.8	401.2
107.5°	50.9	58.9	71.1	92.4	125.8	171.1	224.8	281.6	333.2	372.2	397.2
110°	56.0	63.5	75.9	95.5	126.3	166.8	212.5	262.4	310.8	351.4	382.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	60.9	68.4	80.3	98.9	127.6	164.9	205.6	248.2	291.0	329.4	360.2
115°	68.6	76.1	87.4	104.2	130.2	163.8	199.1	234.1	268.5	301.3	328.1
117.5°	75.7	83.5	94.1	109.6	132.9	163.5	196.1	227.1	255.6	281.4	304.2
120°	80.3	88.2	98.9	113.4	135.0	163.5	194.6	223.9	250.0	272.4	292.3
122.5°	85.1	92.7	103.3	117.0	137.0	163.3	192.8	221.3	246.4	266.8	284.2
125°	91.6	99.4	109.5	122.3	140.0	163.0	189.8	216.7	240.7	260.1	275.5
127.5°	97.5	105.4	115.2	127.0	142.4	162.3	185.8	211.1	234.1	253.4	268.0
130°	101.3	109.5	119.0	129.9	144.2	162.1	183.4	206.6	228.8	247.8	262.6
132.5°	105.0	112.6	122.2	132.8	145.8	161.9	181.2	201.9	222.7	241.3	256.1
135°	110.0	117.3	126.5	136.7	148.1	161.5	177.8	195.4	213.7	230.7	244.7
137.5°	114.3	121.3	129.9	139.3	149.5	161.5	174.9	189.6	204.9	219.4	232.0
140°	117.0	123.7	132.1	141.1	150.6	161.3	173.3	186.2	199.3	211.9	223.7
142.5°	119.5	126.0	134.2	142.4	151.5	161.3	172.0	183.1	194.6	205.4	215.6
145°	122.9	129.0	136.3	143.9	152.0	160.7	169.7	178.6	188.1	196.5	204.4
147.5°	126.2	131.7	138.6	145.2	152.3	159.7	167.6	175.0	182.5	189.3	195.4
150°	128.3	133.6	139.7	145.8	152.3	159.0	166.0	172.8	179.2	184.8	189.8
152.5°	130.2	135.1	140.6	146.3	151.9	157.9	164.2	170.3	175.9	181.0	185.1
155°	133.0	137.2	142.0	146.7	151.2	156.2	161.5	166.6	171.0	175.2	178.6
157.5°	135.5	138.9	142.9	146.7	150.4	154.5	158.8	162.6	166.4	169.9	172.6
160°	136.9	140.0	143.4	146.7	149.8	153.1	156.8	160.2	163.2	166.3	168.6
162.5°	138.2	140.7	143.8	146.7	149.1	151.8	155.0	157.7	160.3	162.7	164.8
165°	139.7	141.4	143.9	146.2	147.8	149.8	152.0	154.2	156.0	157.9	159.3
167.5°	140.7	142.0	143.9	145.4	146.5	147.7	149.3	151.0	152.3	153.8	154.6
170°	141.4	142.2	143.6	145.0	145.6	146.4	147.6	148.9	149.8	150.9	151.8
172.5°	141.8	142.4	143.4	144.6	144.7	145.0	146.0	147.2	147.7	148.5	149.1
175°	142.5	142.5	143.1	143.9	143.6	143.6	144.2	144.7	145.0	145.6	145.6
177.5°	142.5	142.5	142.8	143.1	142.8	142.8	143.0	143.1	143.4	143.4	143.6
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1297.4	1298.3	1295.3	1294.4	1295.3	1298.3	1297.4	1300.1	1300.5	1304.0	1302.7
5°	1203.7	1202.6	1199.8	1200.4	1199.8	1202.6	1203.7	1208.1	1210.3	1219.0	1218.0
7.5°	1123.6	1119.3	1120.5	1116.1	1120.5	1119.3	1123.6	1127.5	1134.2	1138.1	1147.4
10°	1074.4	1068.4	1063.5	1059.1	1063.5	1068.4	1074.4	1076.7	1086.0	1090.4	1099.6
12.5°	1007.4	1002.3	995.6	997.0	995.6	1002.3	1007.4	1017.1	1029.0	1038.2	1052.8
15°	912.4	904.1	891.0	892.6	891.0	904.1	912.4	919.5	931.5	952.4	962.2
17.5°	831.9	831.9	825.9	827.4	825.9	831.9	831.9	841.6	847.7	861.0	876.1
20°	790.3	786.4	787.0	785.3	787.0	786.4	790.3	801.8	808.3	817.6	834.1
22.5°	761.4	756.6	752.8	749.4	752.8	756.6	761.4	764.5	773.2	782.1	795.5
25°	712.5	709.2	704.3	703.1	704.3	709.2	712.5	717.4	721.8	733.3	741.5
27.5°	669.6	668.9	666.9	664.4	666.9	668.9	669.6	673.9	679.6	687.0	697.4
30°	644.6	643.5	642.4	640.7	642.4	643.5	644.6	649.0	653.3	659.3	667.6
32.5°	622.3	621.5	620.4	620.6	620.4	621.5	622.3	624.4	627.0	634.9	641.3
35°	590.3	589.8	588.7	588.2	588.7	589.8	590.3	592.6	594.2	596.4	601.8
37.5°	560.5	562.0	561.3	561.2	561.3	562.0	560.5	561.1	559.4	563.3	567.0
40°	540.0	540.5	541.6	541.1	541.6	540.5	540.0	540.5	540.5	540.5	543.8
42.5°	522.9	523.0	524.5	522.7	524.5	523.0	522.9	520.8	518.2	518.6	519.7
45°	492.3	495.6	495.0	495.0	495.0	495.6	492.3	488.5	488.0	485.8	485.8
47.5°	458.9	461.8	462.6	462.4	462.6	461.8	458.9	457.5	455.0	452.8	452.6
50°	437.0	435.9	437.6	437.0	437.6	435.9	437.0	434.3	430.5	430.5	429.4
52.5°	410.3	410.5	410.4	409.9	410.4	410.5	410.3	408.8	407.3	405.4	404.8
55°	369.1	369.6	368.5	369.1	368.5	369.6	369.1	368.5	368.5	367.5	368.5
57.5°	324.4	321.8	322.9	321.5	322.9	321.8	324.4	326.9	327.7	328.0	329.5
60°	292.5	288.0	286.9	284.8	286.9	288.0	292.5	297.9	300.1	301.2	302.9
62.5°	256.5	253.4	249.7	251.4	249.7	253.4	256.5	262.4	267.3	271.0	274.8
65°	208.7	206.4	204.8	207.0	204.8	206.4	208.7	213.0	217.4	226.2	234.4
67.5°	172.7	171.5	171.5	170.4	171.5	171.5	172.7	174.9	177.7	182.4	190.1
70°	153.9	152.3	152.3	151.1	152.3	152.3	153.9	153.9	156.6	158.8	164.3
72.5°	134.6	132.9	133.4	132.8	133.4	132.9	134.6	135.1	137.8	138.6	141.1
75°	99.7	97.0	97.0	97.5	97.0	97.0	99.7	103.0	105.7	110.6	111.7
77.5°	74.4	73.8	74.6	73.6	74.6	73.8	74.4	74.4	74.9	77.2	79.1
80°	60.8	60.2	59.7	61.3	59.7	60.2	60.8	60.8	61.3	61.9	62.4
82.5°	47.2	47.1	47.0	49.0	47.0	47.1	47.2	48.1	48.2	47.8	48.4
85°	28.4	27.4	28.4	27.4	28.4	27.4	28.4	28.0	28.4	28.0	28.4
87.5°	11.2	10.9	10.4	10.9	10.4	10.9	11.2	10.3	10.3	11.2	10.6
90°	5.9	6.2	5.9	5.9	5.9	6.2	5.9	5.6	5.6	5.3	5.1
92.5°	24.0	22.5	21.5	21.5	21.5	22.5	24.0	27.3	33.0	41.4	55.0
95°	85.6	77.0	71.9	68.3	71.9	77.0	85.6	99.4	126.5	164.1	207.5
97.5°	213.7	196.9	188.5	182.6	188.5	196.9	213.7	233.8	263.0	290.4	306.5
100°	284.5	267.4	259.0	256.7	259.0	267.4	284.5	308.8	329.5	343.3	337.6
102.5°	344.3	331.9	323.1	321.2	323.1	331.9	344.3	359.2	367.8	363.8	336.1
105°	401.8	399.5	395.6	394.0	395.6	399.5	401.8	401.2	389.8	362.0	313.5
107.5°	411.0	417.4	420.2	420.9	420.2	417.4	411.0	397.2	372.2	333.2	281.6
110°	402.0	413.8	418.8	421.4	418.8	413.8	402.0	382.1	351.4	310.8	262.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	382.8	397.0	404.1	408.1	404.1	397.0	382.8	360.2	329.4	291.0	248.2
115°	350.2	367.0	376.0	378.3	376.0	367.0	350.2	328.1	301.3	268.5	234.1
117.5°	323.1	337.2	346.2	347.9	346.2	337.2	323.1	304.2	281.4	255.6	227.1
120°	308.2	320.6	327.9	331.0	327.9	320.6	308.2	292.3	272.4	250.0	223.9
122.5°	297.7	308.2	314.4	317.5	314.4	308.2	297.7	284.2	266.8	246.4	221.3
125°	286.7	294.9	300.2	301.8	300.2	294.9	286.7	275.5	260.1	240.7	216.7
127.5°	279.2	286.5	291.0	292.6	291.0	286.5	279.2	268.0	253.4	234.1	211.1
130°	274.1	281.1	285.6	287.2	285.6	281.1	274.1	262.6	247.8	228.8	206.6
132.5°	267.4	275.3	279.6	281.2	279.6	275.3	267.4	256.1	241.3	222.7	201.9
135°	255.9	263.7	268.2	269.9	268.2	263.7	255.9	244.7	230.7	213.7	195.4
137.5°	242.5	250.2	253.9	255.9	253.9	250.2	242.5	232.0	219.4	204.9	189.6
140°	233.5	239.6	243.6	245.8	243.6	239.6	233.5	223.7	211.9	199.3	186.2
142.5°	224.3	230.0	233.5	235.0	233.5	230.0	224.3	215.6	205.4	194.6	183.1
145°	211.4	216.1	219.0	220.3	219.0	216.1	211.4	204.4	196.5	188.1	178.6
147.5°	200.6	204.7	206.8	207.3	206.8	204.7	200.6	195.4	189.3	182.5	175.0
150°	194.3	198.0	199.6	199.9	199.6	198.0	194.3	189.8	184.8	179.2	172.8
152.5°	188.9	191.9	192.9	193.2	192.9	191.9	188.9	185.1	181.0	175.9	170.3
155°	181.4	183.6	184.5	184.5	184.5	183.6	181.4	178.6	175.2	171.0	166.6
157.5°	174.7	176.4	176.9	176.9	176.9	176.4	174.7	172.6	169.9	166.4	162.6
160°	170.2	171.9	172.2	172.2	172.2	171.9	170.2	168.6	166.3	163.2	160.2
162.5°	166.0	167.6	167.9	167.7	167.9	167.6	166.0	164.8	162.7	160.3	157.7
165°	160.4	161.5	161.3	161.0	161.3	161.5	160.4	159.3	157.9	156.0	154.2
167.5°	155.2	156.0	155.9	155.7	155.9	156.0	155.2	154.6	153.8	152.3	151.0
170°	152.3	152.6	152.3	152.3	152.3	152.6	152.3	151.8	150.9	149.8	148.9
172.5°	149.4	149.6	149.4	148.9	149.4	149.6	149.4	149.1	148.5	147.7	147.2
175°	145.6	146.2	145.6	145.0	145.6	146.2	145.6	145.6	145.6	145.0	144.7
177.5°	143.4	143.6	143.1	142.8	143.1	143.6	143.4	143.6	143.4	143.4	143.1
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P332957-927

CATALOG NUMBER: SA4XXRDIP-C1020D365U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1300.1	1303.1	1310.2	1318.0	1324.6	1330.3	1334.7	1340.8	1346.6	1354.4	1361.8
5°	1221.2	1228.9	1239.8	1253.0	1269.4	1280.4	1294.1	1306.2	1323.7	1341.2	1358.1
7.5°	1152.0	1160.5	1176.5	1194.7	1214.3	1232.2	1248.4	1269.6	1292.8	1318.3	1346.9
10°	1107.3	1116.7	1135.8	1156.6	1179.6	1197.1	1219.0	1244.2	1270.5	1301.7	1336.8
12.5°	1067.0	1075.9	1099.0	1120.2	1144.1	1163.4	1188.8	1214.4	1249.5	1283.3	1323.2
15°	988.5	1012.0	1038.3	1063.5	1092.0	1115.6	1146.2	1172.5	1205.9	1253.5	1299.0
17.5°	901.3	926.4	959.0	997.9	1036.1	1065.2	1096.4	1129.0	1168.8	1217.4	1269.9
20°	850.5	870.8	906.9	950.1	994.5	1035.1	1063.5	1099.6	1140.7	1193.3	1247.5
22.5°	812.4	829.6	857.9	901.1	949.0	996.0	1032.4	1068.1	1113.6	1166.2	1225.2
25°	755.2	773.8	798.4	828.1	882.8	932.6	980.2	1021.4	1069.5	1122.1	1187.8
27.5°	707.7	723.9	746.4	777.2	814.0	869.0	926.7	973.6	1023.0	1079.4	1145.3
30°	679.6	692.8	711.4	742.6	777.7	827.0	885.5	940.3	990.1	1048.7	1117.2
32.5°	650.3	664.3	682.5	707.1	744.8	786.2	844.8	904.8	957.7	1017.6	1084.7
35°	611.2	622.1	638.6	663.8	697.7	733.8	785.8	847.7	903.6	967.7	1031.7
37.5°	571.6	584.6	597.5	620.0	647.8	686.7	729.2	792.4	854.3	912.8	975.3
40°	549.3	557.0	571.2	589.2	618.9	653.3	693.3	755.2	817.1	875.1	938.1
42.5°	524.3	532.8	544.9	563.0	589.5	623.1	662.2	715.7	780.3	836.5	893.8
45°	489.6	494.5	506.6	521.9	543.8	577.7	613.9	661.6	722.3	776.0	826.4
47.5°	454.6	458.8	466.4	480.4	504.9	532.2	566.0	608.8	662.1	715.7	758.4
50°	430.5	434.3	441.4	454.6	476.4	503.3	536.7	575.0	622.7	674.1	709.7
52.5°	406.3	408.4	415.1	430.0	448.4	474.8	504.7	540.0	584.6	627.2	663.3
55°	368.0	373.0	377.3	388.2	405.8	431.0	457.8	491.2	525.8	561.9	592.6
57.5°	328.0	333.4	339.8	349.4	363.3	386.7	410.8	437.9	467.4	497.3	523.1
60°	301.7	306.7	312.1	323.1	335.7	354.3	380.6	404.2	426.6	454.0	479.7
62.5°	275.9	280.8	287.2	296.0	308.1	325.8	347.8	368.2	391.6	415.4	434.6
65°	237.7	241.5	246.4	254.7	266.2	282.0	300.1	316.0	336.8	354.3	371.9
67.5°	195.7	203.0	209.5	216.2	225.9	240.7	253.8	269.0	283.1	296.2	312.1
70°	168.1	176.3	182.4	189.5	198.8	211.4	223.9	234.4	245.9	258.5	272.7
72.5°	144.9	151.4	156.1	163.7	172.1	183.8	195.5	204.1	213.5	222.1	235.9
75°	114.5	117.2	120.5	126.5	134.2	142.9	152.3	159.9	165.4	173.1	182.9
77.5°	82.2	87.5	89.7	94.0	99.4	105.0	111.1	117.6	122.8	125.5	133.1
80°	63.0	65.2	67.3	73.4	76.7	82.1	86.5	92.5	94.7	97.5	104.6
82.5°	49.0	50.3	51.6	53.2	55.2	60.7	65.0	68.9	71.1	72.1	77.5
85°	28.4	29.0	29.5	30.1	30.7	30.7	32.9	35.6	39.5	39.5	41.0
87.5°	10.6	11.1	11.0	10.5	11.3	10.9	11.4	11.3	12.6	13.8	15.0
90°	4.8	5.1	4.5	3.9	3.9	2.2	2.2	2.0	1.7	0.9	0.3
92.5°	74.0	88.8	77.7	56.6	34.9	20.6	14.8	10.7	7.3	4.7	3.2
95°	234.6	228.1	172.2	105.3	59.3	35.0	23.2	16.6	12.9	10.1	9.3
97.5°	294.8	240.3	161.1	94.7	56.7	37.9	28.1	22.3	19.0	16.6	16.6
100°	296.8	225.1	146.2	89.0	57.4	40.9	31.9	26.6	23.2	21.3	21.3
102.5°	280.0	206.0	136.1	87.5	59.7	44.7	36.2	31.1	28.0	26.2	25.7
105°	249.5	183.6	127.4	88.2	65.0	51.5	43.4	38.3	35.0	33.6	32.8
107.5°	224.8	171.1	125.8	92.4	71.1	58.9	50.9	46.0	42.5	41.0	40.5
110°	212.5	166.8	126.3	95.5	75.9	63.5	56.0	50.9	47.6	46.2	45.6



TEST NUMBER: P332957-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	205.6	164.9	127.6	98.9	80.3	68.4	60.9	55.8	52.8	51.1	50.5
115°	199.1	163.8	130.2	104.2	87.4	76.1	68.6	63.3	60.4	58.5	57.7
117.5°	196.1	163.5	132.9	109.6	94.1	83.5	75.7	70.7	67.6	65.8	65.0
120°	194.6	163.5	135.0	113.4	98.9	88.2	80.3	75.6	72.5	70.6	70.0
122.5°	192.8	163.3	137.0	117.0	103.3	92.7	85.1	79.9	77.0	75.0	74.5
125°	189.8	163.0	140.0	122.3	109.5	99.4	91.6	86.3	83.2	81.4	80.3
127.5°	185.8	162.3	142.4	127.0	115.2	105.4	97.5	92.0	88.5	86.4	85.6
130°	183.4	162.1	144.2	129.9	119.0	109.5	101.3	96.0	91.8	89.6	88.5
132.5°	181.2	161.9	145.8	132.8	122.2	112.6	105.0	99.2	95.2	92.3	91.4
135°	177.8	161.5	148.1	136.7	126.5	117.3	110.0	104.2	99.4	96.6	95.5
137.5°	174.9	161.5	149.5	139.3	129.9	121.3	114.3	108.2	103.7	100.6	99.6
140°	173.3	161.3	150.6	141.1	132.1	123.7	117.0	111.1	106.4	103.3	102.5
142.5°	172.0	161.3	151.5	142.4	134.2	126.0	119.5	113.8	109.3	106.5	105.6
145°	169.7	160.7	152.0	143.9	136.3	129.0	122.9	117.6	113.7	110.9	110.0
147.5°	167.6	159.7	152.3	145.2	138.6	131.7	126.2	121.8	117.8	115.3	115.0
150°	166.0	159.0	152.3	145.8	139.7	133.6	128.3	124.1	120.6	118.4	118.1
152.5°	164.2	157.9	151.9	146.3	140.6	135.1	130.2	126.5	123.3	121.1	121.0
155°	161.5	156.2	151.2	146.7	142.0	137.2	133.0	129.9	127.1	125.4	125.2
157.5°	158.8	154.5	150.4	146.7	142.9	138.9	135.5	132.8	130.7	129.1	129.1
160°	156.8	153.1	149.8	146.7	143.4	140.0	136.9	134.7	132.7	131.6	131.6
162.5°	155.0	151.8	149.1	146.7	143.8	140.7	138.2	136.3	134.5	133.6	133.8
165°	152.0	149.8	147.8	146.2	143.9	141.4	139.7	138.3	136.9	136.3	136.3
167.5°	149.3	147.7	146.5	145.4	143.9	142.0	140.7	139.9	138.9	138.6	138.9
170°	147.6	146.4	145.6	145.0	143.6	142.2	141.4	140.9	140.0	139.7	140.0
172.5°	146.0	145.0	144.7	144.6	143.4	142.4	141.8	141.5	140.9	140.9	141.1
175°	144.2	143.6	143.6	143.9	143.1	142.5	142.5	142.2	142.0	142.0	142.2
177.5°	143.0	142.8	142.8	143.1	142.8	142.5	142.5	142.5	142.3	142.5	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P332957-927

CATALOG NUMBER: SA4XXRDIP-C1020D365U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1367.5	1371.5	1375.9	1384.2	1391.2	1394.3	1400.4	1404.8	1403.5	1409.6	1420.1
5°	1372.9	1387.7	1404.7	1422.2	1441.9	1458.3	1471.5	1484.6	1495.1	1507.7	1526.3
7.5°	1372.1	1398.4	1427.0	1458.3	1490.6	1518.6	1544.4	1570.7	1594.0	1619.6	1653.0
10°	1368.6	1403.6	1439.2	1480.3	1521.3	1560.2	1595.3	1628.1	1659.4	1692.7	1735.0
12.5°	1364.6	1404.9	1448.0	1497.4	1548.5	1595.3	1636.5	1683.8	1722.8	1765.9	1814.7
15°	1347.2	1401.4	1460.0	1524.1	1585.4	1648.4	1704.8	1762.8	1817.0	1868.5	1929.9
17.5°	1327.2	1389.8	1458.9	1534.6	1608.3	1684.9	1751.8	1825.0	1880.4	1949.5	2006.4
20°	1311.1	1378.4	1452.3	1537.2	1621.0	1705.9	1779.8	1854.3	1916.8	1986.3	2058.6
22.5°	1291.3	1365.2	1445.3	1533.3	1621.0	1713.8	1795.6	1869.6	1946.9	2025.3	2099.8
25°	1259.6	1336.3	1421.1	1517.5	1618.3	1713.0	1800.6	1892.6	1975.9	2060.8	2127.6
27.5°	1220.6	1301.1	1390.6	1490.0	1593.4	1690.4	1793.7	1891.7	1975.5	2057.1	2115.4
30°	1189.5	1274.4	1360.3	1461.1	1568.4	1672.5	1783.1	1881.1	1969.3	2042.7	2075.5
32.5°	1157.5	1238.0	1326.6	1428.7	1538.7	1650.6	1760.3	1860.5	1942.1	1986.2	1987.0
35°	1101.8	1177.4	1269.4	1369.7	1482.5	1604.0	1715.2	1813.8	1863.6	1867.4	1813.8
37.5°	1041.2	1110.5	1197.4	1297.7	1421.3	1542.1	1655.7	1721.4	1738.1	1682.4	1583.1
40°	997.8	1061.8	1145.7	1248.6	1371.3	1496.1	1599.7	1647.8	1630.3	1539.9	1429.3
42.5°	952.2	1011.9	1092.7	1194.3	1317.4	1443.6	1531.8	1557.6	1511.2	1406.8	1277.3
45°	877.9	932.6	1012.6	1115.0	1233.3	1351.5	1418.4	1405.3	1328.0	1204.3	1059.1
47.5°	800.4	853.3	925.3	1020.0	1141.1	1243.3	1288.5	1248.9	1139.0	1002.8	884.8
50°	749.2	803.4	869.7	960.0	1070.6	1169.2	1198.3	1138.0	1015.9	884.9	776.6
52.5°	698.8	745.1	810.1	897.4	1003.1	1086.4	1101.8	1032.4	906.3	789.0	692.8
55°	622.1	664.3	719.1	801.2	892.6	963.3	955.1	865.9	751.4	651.2	575.6
57.5°	548.0	579.7	630.3	707.3	787.6	835.0	805.0	728.9	622.3	540.2	476.4
60°	498.9	528.5	575.6	642.9	713.6	740.4	715.2	632.6	548.2	473.2	419.5
62.5°	452.5	478.6	519.0	581.6	638.7	654.5	627.6	555.4	479.4	415.3	370.9
65°	385.0	409.1	443.6	488.0	527.4	535.0	517.5	443.6	386.1	332.4	301.7
67.5°	323.8	339.5	366.5	404.8	425.7	430.2	396.4	349.9	299.2	266.3	243.1
70°	282.6	293.5	318.7	339.5	356.5	357.0	325.8	288.6	249.7	222.9	205.9
72.5°	242.7	253.3	272.3	286.5	299.5	295.3	266.7	237.3	205.9	185.7	173.1
75°	187.3	196.6	206.4	213.0	213.0	207.6	186.7	164.9	146.8	134.8	130.9
77.5°	136.2	143.8	147.1	146.1	144.2	135.6	122.5	108.1	101.6	95.9	93.1
80°	106.8	110.1	111.1	108.4	105.1	95.3	86.5	80.5	74.5	72.3	71.2
82.5°	79.2	82.1	79.2	79.9	72.7	64.6	59.8	57.8	55.2	54.3	53.2
85°	42.1	41.6	40.6	37.8	32.9	31.8	31.2	30.7	29.5	30.1	29.0
87.5°	14.7	13.5	11.8	11.4	11.4	10.9	11.3	11.4	11.5	11.0	12.0
90°	0.9	1.7	2.0	2.2	2.2	3.9	3.9	4.5	5.1	4.8	5.1
92.5°	4.7	7.3	10.7	14.8	20.6	34.9	56.6	77.7	88.8	74.0	55.0
95°	10.1	12.9	16.6	23.2	35.0	59.3	105.3	172.2	228.1	234.6	207.5
97.5°	16.6	19.0	22.3	28.1	37.9	56.7	94.7	161.1	240.3	294.8	306.5
100°	21.3	23.2	26.6	31.9	40.9	57.4	89.0	146.2	225.1	296.8	337.6
102.5°	26.2	28.0	31.1	36.2	44.7	59.7	87.5	136.1	206.0	280.0	336.1
105°	33.6	35.0	38.3	43.4	51.5	65.0	88.2	127.4	183.6	249.5	313.5
107.5°	41.0	42.5	46.0	50.9	58.9	71.1	92.4	125.8	171.1	224.8	281.6
110°	46.2	47.6	50.9	56.0	63.5	75.9	95.5	126.3	166.8	212.5	262.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	51.1	52.8	55.8	60.9	68.4	80.3	98.9	127.6	164.9	205.6	248.2
115°	58.5	60.4	63.3	68.6	76.1	87.4	104.2	130.2	163.8	199.1	234.1
117.5°	65.8	67.6	70.7	75.7	83.5	94.1	109.6	132.9	163.5	196.1	227.1
120°	70.6	72.5	75.6	80.3	88.2	98.9	113.4	135.0	163.5	194.6	223.9
122.5°	75.0	77.0	79.9	85.1	92.7	103.3	117.0	137.0	163.3	192.8	221.3
125°	81.4	83.2	86.3	91.6	99.4	109.5	122.3	140.0	163.0	189.8	216.7
127.5°	86.4	88.5	92.0	97.5	105.4	115.2	127.0	142.4	162.3	185.8	211.1
130°	89.6	91.8	96.0	101.3	109.5	119.0	129.9	144.2	162.1	183.4	206.6
132.5°	92.3	95.2	99.2	105.0	112.6	122.2	132.8	145.8	161.9	181.2	201.9
135°	96.6	99.4	104.2	110.0	117.3	126.5	136.7	148.1	161.5	177.8	195.4
137.5°	100.6	103.7	108.2	114.3	121.3	129.9	139.3	149.5	161.5	174.9	189.6
140°	103.3	106.4	111.1	117.0	123.7	132.1	141.1	150.6	161.3	173.3	186.2
142.5°	106.5	109.3	113.8	119.5	126.0	134.2	142.4	151.5	161.3	172.0	183.1
145°	110.9	113.7	117.6	122.9	129.0	136.3	143.9	152.0	160.7	169.7	178.6
147.5°	115.3	117.8	121.8	126.2	131.7	138.6	145.2	152.3	159.7	167.6	175.0
150°	118.4	120.6	124.1	128.3	133.6	139.7	145.8	152.3	159.0	166.0	172.8
152.5°	121.1	123.3	126.5	130.2	135.1	140.6	146.3	151.9	157.9	164.2	170.3
155°	125.4	127.1	129.9	133.0	137.2	142.0	146.7	151.2	156.2	161.5	166.6
157.5°	129.1	130.7	132.8	135.5	138.9	142.9	146.7	150.4	154.5	158.8	162.6
160°	131.6	132.7	134.7	136.9	140.0	143.4	146.7	149.8	153.1	156.8	160.2
162.5°	133.6	134.5	136.3	138.2	140.7	143.8	146.7	149.1	151.8	155.0	157.7
165°	136.3	136.9	138.3	139.7	141.4	143.9	146.2	147.8	149.8	152.0	154.2
167.5°	138.6	138.9	139.9	140.7	142.0	143.9	145.4	146.5	147.7	149.3	151.0
170°	139.7	140.0	140.9	141.4	142.2	143.6	145.0	145.6	146.4	147.6	148.9
172.5°	140.9	140.9	141.5	141.8	142.4	143.4	144.6	144.7	145.0	146.0	147.2
175°	142.0	142.0	142.2	142.5	142.5	143.1	143.9	143.6	143.6	144.2	144.7
177.5°	142.5	142.3	142.5	142.5	142.5	142.8	143.1	142.8	142.8	143.0	143.1
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1425.8	1427.6	1428.9	1433.3	1433.7	1437.7	1433.7
5°	1543.8	1551.5	1563.5	1575.6	1576.7	1584.3	1570.7
7.5°	1676.1	1693.8	1704.9	1724.4	1732.1	1736.9	1729.0
10°	1767.2	1783.7	1812.7	1826.9	1841.2	1843.3	1836.8
12.5°	1855.3	1881.4	1904.2	1931.2	1930.5	1949.8	1942.8
15°	1972.6	1999.5	2031.2	2061.3	2072.3	2072.3	2081.1
17.5°	2056.3	2105.5	2138.3	2161.9	2187.8	2192.3	2189.3
20°	2112.8	2165.9	2201.0	2231.7	2249.2	2254.1	2254.1
22.5°	2154.8	2200.0	2234.3	2261.8	2276.3	2282.1	2280.4
25°	2184.0	2222.9	2243.7	2251.9	2255.7	2254.6	2244.3
27.5°	2144.1	2142.4	2129.2	2104.0	2085.1	2073.6	2060.5
30°	2067.9	2039.4	2006.5	1970.4	1923.9	1888.2	1877.3
32.5°	1954.4	1890.5	1834.8	1774.6	1724.5	1688.9	1674.0
35°	1735.0	1633.6	1550.9	1478.6	1426.1	1393.2	1382.3
37.5°	1474.5	1376.4	1274.1	1204.0	1160.3	1127.1	1114.8
40°	1308.8	1202.1	1112.8	1047.1	1002.2	969.9	969.3
42.5°	1157.7	1055.7	971.8	924.4	876.0	854.6	854.5
45°	947.9	866.3	795.2	758.0	728.9	711.4	706.5
47.5°	784.9	717.4	669.9	640.3	616.6	605.5	598.3
50°	693.3	634.1	596.4	570.6	557.5	543.3	542.2
52.5°	617.1	569.3	539.9	519.0	502.3	493.8	494.0
55°	518.6	480.9	460.0	444.1	431.0	424.5	421.7
57.5°	436.9	408.5	393.4	378.8	373.3	368.1	366.7
60°	386.1	366.9	352.7	341.2	333.0	331.3	330.7
62.5°	344.0	324.0	314.1	305.2	299.2	296.7	295.7
65°	283.7	268.9	260.2	253.0	250.8	247.0	246.4
67.5°	228.7	219.8	214.0	209.1	206.1	205.9	205.9
70°	195.0	190.0	185.1	182.4	180.7	179.6	179.6
72.5°	166.0	162.4	158.4	156.9	156.6	155.5	155.1
75°	126.5	122.7	123.2	120.5	118.3	115.6	113.9
77.5°	89.7	87.0	86.4	86.1	84.2	83.9	84.8
80°	69.6	66.8	66.2	66.8	66.2	64.6	64.6
82.5°	52.9	50.6	50.1	49.7	49.2	49.7	48.9
85°	28.4	27.4	27.4	27.4	28.4	28.0	27.4
87.5°	11.2	10.8	11.2	10.9	10.9	10.4	10.9
90°	5.3	5.6	5.6	5.9	6.2	5.9	5.9
92.5°	41.4	33.0	27.3	24.0	22.5	21.5	21.5
95°	164.1	126.5	99.4	85.6	77.0	71.9	68.3
97.5°	290.4	263.0	233.8	213.7	196.9	188.5	182.6
100°	343.3	329.5	308.8	284.5	267.4	259.0	256.7
102.5°	363.8	367.8	359.2	344.3	331.9	323.1	321.2
105°	362.0	389.8	401.2	401.8	399.5	395.6	394.0
107.5°	333.2	372.2	397.2	411.0	417.4	420.2	420.9
110°	310.8	351.4	382.1	402.0	413.8	418.8	421.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	291.0	329.4	360.2	382.8	397.0	404.1	408.1
115°	268.5	301.3	328.1	350.2	367.0	376.0	378.3
117.5°	255.6	281.4	304.2	323.1	337.2	346.2	347.9
120°	250.0	272.4	292.3	308.2	320.6	327.9	331.0
122.5°	246.4	266.8	284.2	297.7	308.2	314.4	317.5
125°	240.7	260.1	275.5	286.7	294.9	300.2	301.8
127.5°	234.1	253.4	268.0	279.2	286.5	291.0	292.6
130°	228.8	247.8	262.6	274.1	281.1	285.6	287.2
132.5°	222.7	241.3	256.1	267.4	275.3	279.6	281.2
135°	213.7	230.7	244.7	255.9	263.7	268.2	269.9
137.5°	204.9	219.4	232.0	242.5	250.2	253.9	255.9
140°	199.3	211.9	223.7	233.5	239.6	243.6	245.8
142.5°	194.6	205.4	215.6	224.3	230.0	233.5	235.0
145°	188.1	196.5	204.4	211.4	216.1	219.0	220.3
147.5°	182.5	189.3	195.4	200.6	204.7	206.8	207.3
150°	179.2	184.8	189.8	194.3	198.0	199.6	199.9
152.5°	175.9	181.0	185.1	188.9	191.9	192.9	193.2
155°	171.0	175.2	178.6	181.4	183.6	184.5	184.5
157.5°	166.4	169.9	172.6	174.7	176.4	176.9	176.9
160°	163.2	166.3	168.6	170.2	171.9	172.2	172.2
162.5°	160.3	162.7	164.8	166.0	167.6	167.9	167.7
165°	156.0	157.9	159.3	160.4	161.5	161.3	161.0
167.5°	152.3	153.8	154.6	155.2	156.0	155.9	155.7
170°	149.8	150.9	151.8	152.3	152.6	152.3	152.3
172.5°	147.7	148.5	149.1	149.4	149.6	149.4	148.9
175°	145.0	145.6	145.6	145.6	146.2	145.6	145.0
177.5°	143.4	143.4	143.6	143.4	143.6	143.1	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5

(END OF REPORT)