

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: P332362-927

Luminaire Tested: **S123RDIP-S1165D365U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332362-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1165D365U927-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 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: 4662.9 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

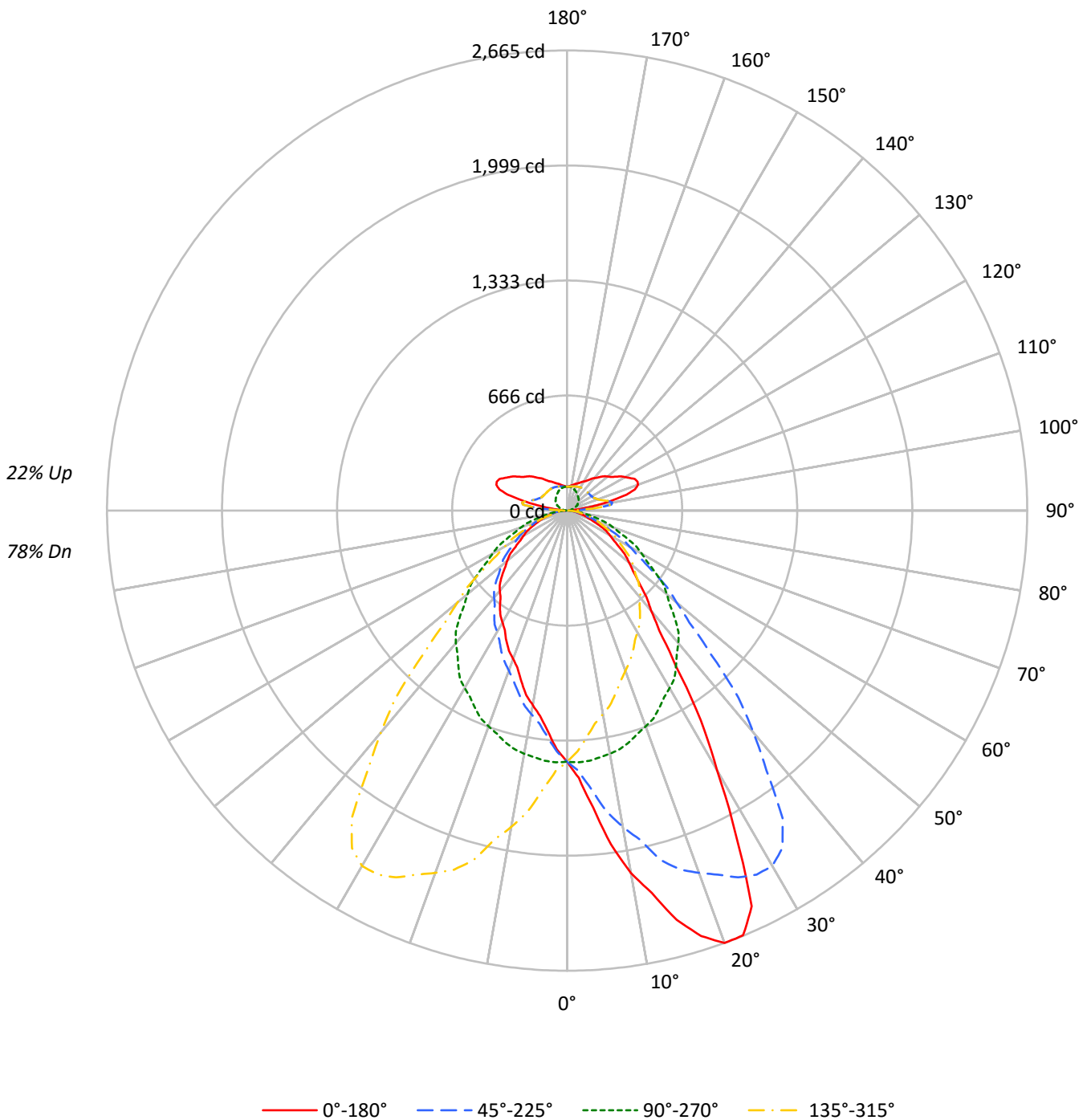
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	99	99	90	90	90	82	82	82	78				
1	105	101	97	94	100	96	93	90	88	86	83	81	79	77	74	72	71	67				
2	96	89	83	78	92	85	80	75	78	74	70	72	69	66	66	63	61	58				
3	88	79	72	66	84	76	69	64	70	65	60	64	60	57	59	56	53	50				
4	81	71	63	57	78	68	61	55	63	57	52	58	53	49	53	50	46	44				
5	75	64	56	50	72	61	54	48	57	51	46	53	47	43	49	44	41	38				
6	70	58	50	44	66	56	48	43	52	45	41	48	43	39	44	40	37	34				
7	65	52	44	39	62	51	43	38	47	41	36	44	38	34	41	36	33	31				
8	60	48	40	35	58	46	39	34	43	37	33	40	35	31	38	33	30	28				
9	56	44	37	31	54	43	36	31	40	34	29	37	32	28	35	30	27	25				
10	53	41	33	29	51	39	33	28	37	31	27	35	29	26	32	28	25	23				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15655	15655	15655	15655
5°	18662	15722	13846	15722
10°	23302	15632	12508	15632
15°	27351	15473	11407	15473
20°	30525	15234	10470	15234
25°	30037	14982	9894	14982
30°	21592	14751	9302	14751
35°	14416	14448	8918	14448
40°	10621	14085	8521	14085
45°	8910	13449	8132	13449
50°	7860	12616	7591	12616
55°	6893	11661	6848	11661
60°	6140	10749	6273	10749
65°	5392	9770	5835	9770
70°	4233	8897	5331	8897
75°	3730	7769	4870	7769
80°	3242	6602	4785	6602
85°	2618	5298	5076	5298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	3.1
10°-20°	446.9	9.6
20°-30°	702.0	15.1
30°-40°	732.4	15.7
40°-50°	626.8	13.4
50°-60°	477.7	10.2
60°-70°	306.2	6.6
70°-80°	147.3	3.2
80°-90°	40.1	0.9
90°-100°	77.0	1.7
100°-110°	217.9	4.7
110°-120°	214.4	4.6
120°-130°	171.0	3.7
130°-140°	134.8	2.9
140°-150°	100.6	2.2
150°-160°	70.1	1.5
160°-170°	41.2	0.9
170°-180°	13.4	0.3
0°-30°	1291.9	27.7
0°-40°	2024.3	43.4
0°-60°	3128.9	67.1
0°-90°	3622.5	77.7
90°-120°	509.3	10.9
90°-150°	915.7	19.6
90°-180°	1040.0	22.3
0°-180°	4662.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1454	1454	1454	1454	1454	
5°	1727	1455	1281	1455	1727	178
15°	2454	1388	1024	1388	2454	696
25°	2529	1262	833	1262	2529	1087
35°	1097	1100	679	1100	1097	719
45°	585	884	534	884	585	460
55°	367	621	365	621	367	332
65°	212	384	229	384	212	208
75°	90	187	117	187	90	96
85°	21	43	41	43	21	24
90°	8	1	8	1	8	5
95°	32	10	32	10	32	59
105°	356	32	356	32	356	351
115°	433	57	433	57	433	421
125°	342	80	342	80	342	309
135°	277	94	277	94	277	215
145°	216	107	216	107	216	138
155°	179	121	179	121	179	84
165°	156	132	156	132	156	45
175°	141	138	141	138	141	14
180°	138	138	138	138	138	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1549.1	1551.1	1544.6	1543.6	1536.1	1534.1	1534.1	1523.7	1517.2	1508.8	1503.8
5°	1727.2	1737.2	1732.2	1720.9	1702.2	1697.9	1686.1	1667.4	1646.2	1620.1	1607.7
7.5°	1949.6	1963.2	1958.0	1940.6	1921.0	1905.3	1871.8	1840.9	1797.4	1759.3	1726.6
10°	2131.9	2117.6	2106.3	2089.5	2071.5	2042.2	2007.4	1959.4	1904.0	1860.4	1811.9
12.5°	2268.3	2266.0	2251.8	2234.5	2209.0	2181.2	2138.3	2080.0	2015.5	1952.6	1897.0
15°	2454.4	2458.1	2448.8	2430.7	2394.6	2345.4	2280.7	2256.5	2164.2	2095.8	2027.3
17.5°	2583.1	2582.4	2581.2	2556.1	2519.3	2484.3	2424.2	2360.4	2277.0	2180.5	2088.2
20°	2664.8	2658.6	2659.9	2631.9	2604.5	2564.0	2505.4	2412.7	2344.2	2232.8	2137.5
22.5°	2662.8	2661.7	2666.3	2656.7	2636.9	2605.8	2559.8	2481.4	2394.1	2281.6	2174.4
25°	2529.1	2524.1	2553.4	2561.5	2593.3	2598.8	2585.1	2542.2	2459.4	2343.6	2211.0
27.5°	2116.7	2113.9	2168.3	2236.3	2322.4	2389.4	2454.2	2485.4	2459.4	2376.5	2243.6
30°	1737.2	1795.6	1823.0	1921.4	2031.0	2161.8	2276.3	2385.3	2412.0	2376.0	2267.0
32.5°	1442.2	1493.3	1516.2	1600.7	1702.8	1855.9	2027.7	2182.1	2291.1	2318.6	2253.0
35°	1097.1	1097.7	1150.0	1187.3	1282.0	1439.6	1606.4	1813.1	2018.6	2174.2	2190.4
37.5°	875.4	878.5	910.1	947.4	1018.4	1101.7	1248.6	1420.5	1657.8	1896.8	2036.9
40°	755.9	761.4	785.1	821.9	872.9	935.8	1050.4	1212.3	1410.2	1676.1	1893.4
42.5°	679.1	688.2	700.4	728.7	760.3	819.3	911.9	1037.0	1217.0	1468.4	1719.1
45°	585.3	590.3	599.6	612.7	641.3	682.4	744.7	828.7	978.2	1180.5	1431.4
47.5°	516.3	513.7	523.5	534.1	553.2	581.1	622.9	691.5	798.1	960.4	1173.3
50°	469.4	468.8	475.7	483.8	501.8	522.4	556.7	608.3	693.0	827.5	1022.4
52.5°	425.6	428.0	432.8	442.9	456.0	472.6	503.4	540.6	613.3	729.4	891.8
55°	367.3	369.2	376.0	381.7	391.0	407.8	427.1	458.3	508.1	589.0	722.9
57.5°	318.1	317.2	323.8	325.1	335.7	349.4	364.3	388.5	424.6	484.8	575.0
60°	285.2	283.3	288.9	293.3	298.9	310.1	322.5	346.2	374.9	419.1	496.2
62.5°	255.2	254.4	258.5	262.8	267.5	277.7	288.1	306.3	329.0	366.2	427.5
65°	211.7	213.6	215.4	217.3	219.8	226.0	236.0	248.4	264.0	290.2	334.4
67.5°	166.4	168.3	168.9	172.7	178.1	182.0	188.1	199.2	209.9	232.0	257.1
70°	134.5	133.9	134.5	136.3	143.2	150.0	158.1	166.3	173.1	188.6	209.8
72.5°	115.6	114.5	116.1	116.5	119.8	121.7	126.7	134.4	143.2	153.8	169.0
75°	89.7	89.7	89.7	89.7	92.1	93.4	95.3	97.1	100.2	105.2	116.5
77.5°	66.2	66.4	67.3	67.9	68.4	69.1	70.3	72.1	73.2	75.8	80.7
80°	52.3	52.9	52.3	52.9	52.9	54.2	54.8	56.6	57.3	60.4	62.3
82.5°	39.4	39.0	39.4	40.0	40.0	41.2	41.4	42.7	42.9	44.4	46.3
85°	21.2	20.0	21.2	20.5	21.8	20.5	21.2	22.4	22.4	23.1	25.5
87.5°	6.6	7.7	6.6	7.1	7.1	7.5	7.4	7.4	8.3	7.8	8.2
90°	8.1	8.4	8.1	7.8	8.1	7.5	7.3	7.0	6.7	7.0	6.2
92.5°	13.5	14.0	13.7	14.6	15.1	16.5	18.7	23.6	32.5	43.0	47.4
95°	32.5	33.6	35.6	38.1	43.4	53.5	68.3	100.8	134.7	166.0	147.8
97.5°	88.4	90.8	98.4	111.0	131.7	165.1	201.2	251.2	275.2	257.3	188.4
100°	175.5	175.2	186.2	206.6	234.9	274.6	307.4	330.0	320.3	265.1	179.2
102.5°	257.5	264.0	273.1	289.2	311.2	336.4	355.5	356.2	322.5	250.6	165.7
105°	356.1	357.5	366.5	377.1	390.0	397.2	391.9	363.9	305.4	225.1	149.2
107.5°	412.9	415.4	418.4	422.1	421.8	411.9	387.3	341.8	275.5	202.6	138.7
110°	436.2	436.7	437.3	435.1	427.2	407.6	372.3	320.8	256.7	189.8	134.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	440.8	440.8	438.6	431.7	417.3	392.1	352.6	300.0	240.3	181.3	132.4
115°	433.1	431.7	426.0	413.8	392.8	362.3	321.1	272.4	220.6	172.1	131.6
117.5°	408.3	406.4	398.4	384.3	362.3	331.4	294.5	252.4	208.7	166.8	132.1
120°	387.7	386.0	379.3	363.6	341.5	313.2	279.6	241.9	202.4	164.3	133.0
122.5°	368.4	366.3	358.9	344.8	325.2	298.9	267.8	233.6	197.3	162.8	134.5
125°	341.5	339.6	332.6	320.3	302.4	280.0	253.1	222.5	190.7	160.7	136.9
127.5°	319.3	317.6	311.2	300.7	284.8	264.4	240.1	212.9	184.8	159.7	139.6
130°	306.8	304.6	298.7	288.6	273.8	254.8	232.1	206.8	181.6	159.0	141.4
132.5°	294.5	292.9	287.7	277.7	263.7	245.6	224.4	201.3	178.8	158.8	142.8
135°	276.9	274.9	269.9	261.5	247.7	231.8	213.6	193.7	175.0	158.4	144.7
137.5°	258.3	256.9	252.7	244.2	232.7	218.8	203.1	186.8	171.7	157.8	146.1
140°	245.3	245.5	241.1	233.2	222.5	210.5	197.1	182.8	169.6	157.6	146.9
142.5°	233.1	233.4	229.4	222.4	213.3	202.9	191.2	179.0	167.9	157.2	147.7
145°	216.4	215.9	213.6	207.7	200.7	192.6	183.6	174.4	165.4	156.5	148.1
147.5°	202.6	202.4	200.3	196.3	191.0	185.2	178.0	170.6	163.1	155.4	148.1
150°	194.6	194.6	192.9	189.8	185.6	180.3	174.4	167.9	161.5	154.6	148.1
152.5°	187.8	187.8	186.8	183.9	180.7	176.3	171.0	165.5	159.7	153.4	147.4
155°	179.4	179.2	178.6	176.3	173.8	170.5	166.3	161.8	157.0	151.5	146.7
157.5°	171.7	171.8	171.3	169.7	167.5	164.9	161.6	157.9	154.0	149.7	145.8
160°	166.8	167.2	167.2	165.4	163.5	161.5	158.8	155.7	152.0	148.4	145.3
162.5°	162.4	162.6	162.6	161.2	159.9	158.2	155.6	153.0	150.0	147.0	144.4
165°	156.5	156.5	156.8	155.7	154.6	153.1	151.1	149.5	147.3	145.0	143.1
167.5°	150.9	150.9	151.1	150.4	149.9	148.9	147.7	146.5	144.7	143.0	141.7
170°	147.5	147.5	147.8	147.3	146.9	146.4	145.3	144.4	143.1	141.6	140.9
172.5°	144.4	144.7	145.1	144.6	144.5	144.2	143.3	142.7	141.5	140.5	140.1
175°	140.9	141.1	141.4	141.1	141.1	141.1	140.5	140.2	139.7	139.1	139.1
177.5°	138.7	138.7	139.2	138.9	139.2	139.2	138.9	138.7	138.6	138.3	138.6
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1501.8	1500.3	1493.3	1485.3	1474.9	1467.9	1462.4	1459.4	1450.5	1439.6	1432.0
5°	1594.6	1575.9	1555.9	1531.7	1509.3	1486.2	1471.9	1455.1	1434.6	1411.5	1395.3
7.5°	1693.9	1657.3	1617.9	1577.2	1536.9	1500.8	1468.9	1441.6	1408.9	1375.9	1352.7
10°	1770.1	1716.6	1661.2	1604.5	1552.8	1504.3	1466.9	1430.2	1391.0	1353.0	1324.4
12.5°	1839.4	1768.9	1705.0	1635.4	1569.3	1511.2	1457.5	1414.2	1367.1	1326.6	1294.0
15°	1927.1	1854.8	1777.6	1671.7	1584.0	1510.5	1445.1	1388.5	1331.2	1281.4	1249.6
17.5°	2009.0	1900.3	1796.5	1708.3	1594.2	1502.4	1422.6	1354.9	1292.0	1239.1	1200.1
20°	2042.9	1937.6	1825.0	1712.2	1600.1	1497.5	1404.6	1329.9	1264.6	1204.8	1168.7
22.5°	2063.2	1944.1	1825.4	1704.3	1585.2	1478.5	1386.7	1304.6	1233.7	1176.9	1132.3
25°	2087.1	1945.1	1814.3	1694.8	1573.4	1457.6	1348.6	1261.5	1184.9	1124.5	1077.1
27.5°	2102.8	1935.8	1781.2	1648.4	1525.2	1409.8	1310.0	1217.6	1140.0	1076.0	1025.2
30°	2105.7	1928.3	1755.8	1612.0	1486.8	1381.0	1275.2	1186.8	1104.5	1036.6	989.4
32.5°	2109.7	1909.9	1721.4	1568.7	1440.5	1335.7	1239.8	1155.3	1071.2	1004.3	956.0
35°	2093.3	1899.7	1669.3	1493.7	1365.4	1263.9	1177.4	1099.5	1016.8	952.0	902.9
37.5°	2022.5	1859.2	1615.3	1409.3	1275.2	1181.1	1110.6	1042.7	966.9	897.0	850.6
40°	1951.3	1819.3	1573.4	1358.0	1217.9	1121.3	1057.9	1002.4	929.0	863.6	813.8
42.5°	1845.2	1765.1	1533.5	1304.2	1153.1	1060.1	1006.5	954.6	890.1	823.7	776.9
45°	1650.6	1661.2	1452.0	1218.5	1063.4	970.0	919.6	883.5	826.2	771.4	723.5
47.5°	1406.5	1505.5	1356.2	1127.2	968.9	881.3	837.2	805.6	767.1	713.3	669.6
50°	1247.1	1388.5	1279.5	1066.0	909.7	822.5	778.9	753.4	719.8	677.4	635.7
52.5°	1100.2	1252.0	1186.8	997.7	845.4	765.7	723.1	702.1	675.4	635.6	597.9
55°	897.2	1051.0	1036.1	894.7	749.0	677.4	645.1	621.4	603.3	573.5	543.6
57.5°	725.7	871.6	879.2	780.1	664.1	593.3	565.5	547.6	535.8	513.3	485.7
60°	617.7	751.5	777.7	703.0	603.3	541.1	513.7	499.3	490.0	472.0	450.8
62.5°	528.0	641.9	671.5	617.7	545.0	486.8	465.3	451.5	445.2	429.6	410.9
65°	404.1	498.8	527.4	497.5	459.5	412.8	395.4	383.6	378.0	369.2	355.5
67.5°	303.9	372.8	404.3	383.2	369.5	339.9	328.8	322.5	317.5	311.6	300.1
70°	244.1	295.1	327.5	321.9	310.7	295.1	287.0	282.7	277.7	272.7	262.8
72.5°	196.2	231.4	261.7	264.6	255.4	252.3	245.2	243.4	240.3	234.3	228.9
75°	130.2	154.4	175.5	183.7	187.4	190.5	187.4	186.8	186.2	181.2	178.1
77.5°	85.3	98.4	111.7	125.6	131.3	135.6	136.6	138.9	137.2	134.6	133.1
80°	65.4	68.5	77.8	89.7	99.0	102.7	105.2	106.5	105.8	105.2	102.7
82.5°	47.5	50.1	54.4	62.7	70.6	76.8	78.3	78.1	79.5	79.9	77.8
85°	25.5	26.1	27.4	28.7	33.0	39.8	41.7	42.9	44.2	44.2	40.5
87.5°	9.0	8.4	9.2	9.1	10.5	10.8	13.7	16.1	16.6	14.8	15.0
90°	5.3	4.5	3.6	3.1	2.5	1.7	1.1	0.6	1.1	1.7	2.5
92.5°	35.6	23.5	16.2	12.0	9.7	7.5	5.1	3.5	5.1	7.5	9.7
95°	101.9	60.2	36.4	25.5	18.2	13.5	10.4	9.5	10.4	13.5	18.2
97.5°	111.8	64.8	42.1	30.3	23.1	18.9	16.5	16.2	16.5	18.9	23.1
100°	105.5	64.1	44.5	33.6	26.9	23.0	21.0	20.8	21.0	23.0	26.9
102.5°	100.1	65.0	47.5	37.4	31.4	27.6	25.9	25.4	25.9	27.6	31.4
105°	96.3	67.5	52.4	43.6	38.3	35.0	33.4	32.5	33.4	35.0	38.3
107.5°	96.0	72.1	58.8	50.7	45.7	42.5	40.8	40.0	40.8	42.5	45.7
110°	97.1	75.9	63.3	55.5	50.7	47.6	46.2	45.3	46.2	47.6	50.7





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	99.4	79.7	68.0	60.4	55.6	52.5	51.1	50.3	51.1	52.5	55.6
115°	103.0	86.0	75.3	67.7	63.0	60.2	58.5	57.4	58.5	60.2	63.0
117.5°	107.8	92.6	82.1	75.1	69.8	67.2	65.8	64.5	65.8	67.2	69.8
120°	111.4	96.9	86.7	79.8	74.5	71.7	70.3	69.4	70.3	71.7	74.5
122.5°	114.8	101.3	91.5	84.1	79.0	75.9	74.5	73.7	74.5	75.9	79.0
125°	120.1	107.8	98.0	90.4	85.1	82.0	80.3	79.8	80.3	82.0	85.1
127.5°	124.5	113.4	103.9	96.3	90.5	87.4	85.2	84.4	85.2	87.4	90.5
130°	127.4	116.8	107.5	100.0	94.0	90.7	88.2	87.4	88.2	90.7	94.0
132.5°	130.1	119.6	110.7	103.3	97.4	93.4	90.6	89.6	90.6	93.4	97.4
135°	133.6	124.0	115.3	107.8	101.9	97.7	94.6	93.5	94.6	97.7	101.9
137.5°	136.1	127.1	118.7	111.7	105.8	101.4	98.4	97.2	98.4	101.4	105.8
140°	137.4	129.0	121.0	113.9	108.4	103.9	101.1	99.7	101.1	103.9	108.4
142.5°	138.8	130.6	122.7	116.2	110.6	106.5	103.5	102.3	103.5	106.5	110.6
145°	140.2	132.7	125.4	119.0	114.2	110.0	107.5	106.6	107.5	110.0	114.2
147.5°	141.2	134.4	127.7	122.2	117.6	114.0	111.5	111.1	111.5	114.0	117.6
150°	141.4	135.5	129.0	124.0	120.1	116.5	114.2	113.9	114.2	116.5	120.1
152.5°	141.8	136.2	130.6	125.8	122.3	119.1	116.9	116.8	116.9	119.1	122.3
155°	142.0	137.4	132.7	128.8	125.7	122.9	121.2	121.2	121.2	122.9	125.7
157.5°	142.2	138.2	134.4	131.3	128.7	126.3	124.9	124.7	124.9	126.3	128.7
160°	142.2	138.9	135.5	132.7	130.7	128.5	127.4	127.4	127.4	128.5	130.7
162.5°	142.0	139.1	136.2	133.8	132.1	130.3	129.4	129.4	129.4	130.3	132.1
165°	141.4	139.4	137.2	135.2	134.1	132.7	132.1	132.4	132.1	132.7	134.1
167.5°	140.9	139.3	137.8	136.5	135.7	134.7	134.4	134.7	134.4	134.7	135.7
170°	140.2	139.1	137.8	137.2	136.6	135.8	135.5	136.0	135.5	135.8	136.6
172.5°	140.1	139.1	137.9	137.6	137.3	136.7	136.6	137.0	136.6	136.7	137.3
175°	139.4	138.9	138.3	138.0	138.0	137.4	137.8	138.0	137.8	137.4	138.0
177.5°	138.9	138.6	138.3	138.3	138.3	138.1	138.3	138.6	138.3	138.1	138.3
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1429.6	1423.1	1418.6	1408.7	1402.2	1395.2	1388.2	1392.7	1392.2	1391.7	1391.7
5°	1381.6	1367.3	1354.2	1337.4	1326.8	1313.8	1303.8	1302.5	1305.0	1296.3	1291.3
7.5°	1334.0	1314.5	1295.9	1277.4	1257.7	1242.1	1232.2	1227.6	1221.2	1215.8	1210.3
10°	1300.7	1277.6	1259.6	1236.5	1215.4	1196.7	1184.9	1176.8	1172.4	1168.1	1160.0
12.5°	1266.3	1243.8	1220.8	1194.7	1174.6	1152.9	1144.0	1135.0	1126.6	1121.7	1110.6
15°	1216.0	1186.8	1162.4	1135.0	1112.6	1091.5	1079.0	1061.0	1058.4	1052.3	1041.0
17.5°	1165.5	1133.8	1100.3	1080.0	1054.7	1032.7	1013.8	1007.7	989.8	983.1	973.4
20°	1125.7	1096.5	1071.0	1044.2	1007.4	986.9	971.9	963.8	949.5	940.8	934.5
22.5°	1091.3	1061.6	1032.1	1000.8	970.6	947.5	936.6	924.0	916.2	904.0	897.2
25°	1042.3	1009.9	974.4	940.8	919.0	901.6	884.2	872.9	861.7	856.1	843.7
27.5°	985.2	951.4	918.2	892.7	865.9	848.7	833.0	823.0	809.5	800.1	793.2
30°	953.9	914.0	885.3	862.4	828.1	811.9	800.1	787.7	777.7	767.7	760.9
32.5°	917.5	881.1	854.0	825.5	799.2	781.5	766.2	755.3	746.8	737.3	730.5
35°	860.5	830.0	801.9	773.3	754.0	735.9	717.9	708.5	700.4	691.7	685.6
37.5°	808.9	780.4	753.8	726.6	702.7	688.0	673.4	666.3	655.4	649.5	643.2
40°	777.1	749.0	720.4	694.3	669.3	658.1	645.1	634.5	624.5	620.1	613.3
42.5°	742.2	714.2	690.0	661.9	641.4	626.2	614.2	602.6	595.1	588.7	584.9
45°	690.5	665.6	641.9	613.9	594.6	581.5	567.8	557.2	550.4	546.1	539.2
47.5°	640.3	615.4	591.4	567.0	548.3	533.4	519.7	512.3	503.2	497.9	493.2
50°	604.0	581.5	556.0	533.6	514.9	499.9	488.8	479.4	471.3	464.5	461.4
52.5°	570.6	546.7	524.7	503.7	484.0	467.1	456.9	447.0	440.9	433.1	429.5
55°	515.6	492.5	473.8	453.3	434.0	419.6	407.2	398.5	392.3	383.6	378.6
57.5°	463.8	443.2	420.9	403.1	383.2	371.1	360.8	349.0	341.4	334.5	329.6
60°	429.0	405.4	386.0	369.2	351.8	336.2	326.9	317.5	309.4	302.6	298.3
62.5°	392.6	371.9	353.6	335.3	319.4	305.9	295.0	287.2	280.0	275.7	271.3
65°	336.8	320.7	302.0	287.0	272.1	262.1	253.4	246.5	241.6	238.4	234.7
67.5°	285.5	269.8	253.5	238.8	228.9	221.3	215.6	209.7	207.2	203.2	200.7
70°	252.2	236.0	221.7	210.5	200.5	194.9	191.2	186.8	184.3	179.4	176.8
72.5°	215.8	204.1	193.8	184.6	176.6	171.5	166.8	161.4	157.4	151.9	149.4
75°	170.0	159.4	151.3	145.0	140.1	133.2	126.4	120.8	118.9	117.1	116.5
77.5°	125.9	119.1	113.3	108.1	101.9	96.9	95.4	94.1	93.8	92.8	92.8
80°	99.0	92.8	88.4	82.1	78.4	78.4	78.4	77.2	77.8	77.8	77.8
82.5°	73.6	67.9	65.5	63.3	62.5	63.0	63.0	63.3	62.9	63.8	63.4
85°	37.9	38.6	39.8	39.2	39.8	39.8	41.1	40.5	41.1	39.8	41.1
87.5°	14.6	16.2	16.9	17.5	18.1	17.8	18.3	18.3	18.9	18.9	19.1
90°	3.1	3.6	4.5	5.3	6.2	7.0	6.7	7.0	7.3	7.5	8.1
92.5°	12.0	16.2	23.5	35.6	47.4	43.0	32.5	23.6	18.7	16.5	15.1
95°	25.5	36.4	60.2	101.9	147.8	166.0	134.7	100.8	68.3	53.5	43.4
97.5°	30.3	42.1	64.8	111.8	188.4	257.3	275.2	251.2	201.2	165.1	131.7
100°	33.6	44.5	64.1	105.5	179.2	265.1	320.3	330.0	307.4	274.6	234.9
102.5°	37.4	47.5	65.0	100.1	165.7	250.6	322.5	356.2	355.5	336.4	311.2
105°	43.6	52.4	67.5	96.3	149.2	225.1	305.4	363.9	391.9	397.2	390.0
107.5°	50.7	58.8	72.1	96.0	138.7	202.6	275.5	341.8	387.3	411.9	421.8
110°	55.5	63.3	75.9	97.1	134.7	189.8	256.7	320.8	372.3	407.6	427.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	60.4	68.0	79.7	99.4	132.4	181.3	240.3	300.0	352.6	392.1	417.3
115°	67.7	75.3	86.0	103.0	131.6	172.1	220.6	272.4	321.1	362.3	392.8
117.5°	75.1	82.1	92.6	107.8	132.1	166.8	208.7	252.4	294.5	331.4	362.3
120°	79.8	86.7	96.9	111.4	133.0	164.3	202.4	241.9	279.6	313.2	341.5
122.5°	84.1	91.5	101.3	114.8	134.5	162.8	197.3	233.6	267.8	298.9	325.2
125°	90.4	98.0	107.8	120.1	136.9	160.7	190.7	222.5	253.1	280.0	302.4
127.5°	96.3	103.9	113.4	124.5	139.6	159.7	184.8	212.9	240.1	264.4	284.8
130°	100.0	107.5	116.8	127.4	141.4	159.0	181.6	206.8	232.1	254.8	273.8
132.5°	103.3	110.7	119.6	130.1	142.8	158.8	178.8	201.3	224.4	245.6	263.7
135°	107.8	115.3	124.0	133.6	144.7	158.4	175.0	193.7	213.6	231.8	247.7
137.5°	111.7	118.7	127.1	136.1	146.1	157.8	171.7	186.8	203.1	218.8	232.7
140°	113.9	121.0	129.0	137.4	146.9	157.6	169.6	182.8	197.1	210.5	222.5
142.5°	116.2	122.7	130.6	138.8	147.7	157.2	167.9	179.0	191.2	202.9	213.3
145°	119.0	125.4	132.7	140.2	148.1	156.5	165.4	174.4	183.6	192.6	200.7
147.5°	122.2	127.7	134.4	141.2	148.1	155.4	163.1	170.6	178.0	185.2	191.0
150°	124.0	129.0	135.5	141.4	148.1	154.6	161.5	167.9	174.4	180.3	185.6
152.5°	125.8	130.6	136.2	141.8	147.4	153.4	159.7	165.5	171.0	176.3	180.7
155°	128.8	132.7	137.4	142.0	146.7	151.5	157.0	161.8	166.3	170.5	173.8
157.5°	131.3	134.4	138.2	142.2	145.8	149.7	154.0	157.9	161.6	164.9	167.5
160°	132.7	135.5	138.9	142.2	145.3	148.4	152.0	155.7	158.8	161.5	163.5
162.5°	133.8	136.2	139.1	142.0	144.4	147.0	150.0	153.0	155.6	158.2	159.9
165°	135.2	137.2	139.4	141.4	143.1	145.0	147.3	149.5	151.1	153.1	154.6
167.5°	136.5	137.8	139.3	140.9	141.7	143.0	144.7	146.5	147.7	148.9	149.9
170°	137.2	137.8	139.1	140.2	140.9	141.6	143.1	144.4	145.3	146.4	146.9
172.5°	137.6	137.9	139.1	140.1	140.1	140.5	141.5	142.7	143.3	144.2	144.5
175°	138.0	138.3	138.9	139.4	139.1	139.1	139.7	140.2	140.5	141.1	141.1
177.5°	138.3	138.3	138.6	138.9	138.6	138.3	138.6	138.7	138.9	139.2	139.2
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1385.8	1385.2	1385.8	1383.7	1385.8	1385.2	1385.8	1391.7	1391.7	1392.2	1392.7
5°	1289.4	1288.9	1287.0	1281.4	1287.0	1288.9	1289.4	1291.3	1296.3	1305.0	1302.5
7.5°	1205.4	1204.5	1199.0	1199.2	1199.0	1204.5	1205.4	1210.3	1215.8	1221.2	1227.6
10°	1155.6	1156.2	1148.7	1144.4	1148.7	1156.2	1155.6	1160.0	1168.1	1172.4	1176.8
12.5°	1107.3	1104.5	1098.4	1093.6	1098.4	1104.5	1107.3	1110.6	1121.7	1126.6	1135.0
15°	1043.5	1037.3	1022.4	1023.6	1022.4	1037.3	1043.5	1041.0	1052.3	1058.4	1061.0
17.5°	968.4	963.8	963.6	954.9	963.6	963.8	968.4	973.4	983.1	989.8	1007.7
20°	924.6	921.5	922.7	914.0	922.7	921.5	924.6	934.5	940.8	949.5	963.8
22.5°	890.3	887.1	881.9	879.2	881.9	887.1	890.3	897.2	904.0	916.2	924.0
25°	840.0	835.0	830.0	833.1	830.0	835.0	840.0	843.7	856.1	861.7	872.9
27.5°	789.6	785.9	780.9	780.3	780.9	785.9	789.6	793.2	800.1	809.5	823.0
30°	757.7	754.0	751.5	748.4	751.5	754.0	757.7	760.9	767.7	777.7	787.7
32.5°	725.4	724.6	720.2	719.5	720.2	724.6	725.4	730.5	737.3	746.8	755.3
35°	683.0	679.3	678.0	678.7	678.0	679.3	683.0	685.6	691.7	700.4	708.5
37.5°	642.8	637.8	635.6	633.3	635.6	637.8	642.8	643.2	649.5	655.4	666.3
40°	613.9	609.0	607.7	606.4	607.7	609.0	613.9	613.3	620.1	624.5	634.5
42.5°	581.5	579.6	578.8	576.6	578.8	579.6	581.5	584.9	588.7	595.1	602.6
45°	537.3	536.7	533.0	534.2	533.0	536.7	537.3	539.2	546.1	550.4	557.2
47.5°	490.8	488.0	485.4	487.1	485.4	488.0	490.8	493.2	497.9	503.2	512.3
50°	458.9	457.6	452.0	453.3	452.0	457.6	458.9	461.4	464.5	471.3	479.4
52.5°	427.0	422.2	420.2	419.4	420.2	422.2	427.0	429.5	433.1	440.9	447.0
55°	374.2	368.6	366.1	364.9	366.1	368.6	374.2	378.6	383.6	392.3	398.5
57.5°	322.4	320.9	318.9	320.3	318.9	320.9	322.4	329.6	334.5	341.4	349.0
60°	292.0	292.0	292.0	291.4	292.0	292.0	292.0	298.3	302.6	309.4	317.5
62.5°	268.6	267.1	266.6	267.5	266.6	267.1	268.6	271.3	275.7	280.0	287.2
65°	232.9	232.3	229.7	229.1	229.7	232.3	232.9	234.7	238.4	241.6	246.5
67.5°	199.2	196.9	196.1	195.3	196.1	196.9	199.2	200.7	203.2	207.2	209.7
70°	173.7	172.5	168.7	169.4	168.7	172.5	173.7	176.8	179.4	184.3	186.8
72.5°	146.3	145.0	144.3	143.5	144.3	145.0	146.3	149.4	151.9	157.4	161.4
75°	115.8	115.2	114.5	117.1	114.5	115.2	115.8	116.5	117.1	118.9	120.8
77.5°	92.8	92.8	93.2	92.1	93.2	92.8	92.8	92.8	92.8	93.8	94.1
80°	77.8	77.8	77.2	77.2	77.2	77.8	77.8	77.8	77.8	77.8	77.2
82.5°	62.4	62.9	63.3	62.3	63.3	62.9	62.4	63.4	63.8	62.9	63.3
85°	41.1	40.5	41.7	41.1	41.7	40.5	41.1	41.1	39.8	41.1	40.5
87.5°	20.0	19.1	19.1	19.6	19.1	19.1	20.0	19.1	18.9	18.9	18.3
90°	7.8	8.1	8.4	8.1	8.4	8.1	7.8	8.1	7.5	7.3	7.0
92.5°	14.6	13.7	14.0	13.5	14.0	13.7	14.6	15.1	16.5	18.7	23.6
95°	38.1	35.6	33.6	32.5	33.6	35.6	38.1	43.4	53.5	68.3	100.8
97.5°	111.0	98.4	90.8	88.4	90.8	98.4	111.0	131.7	165.1	201.2	251.2
100°	206.6	186.2	175.2	175.5	175.2	186.2	206.6	234.9	274.6	307.4	330.0
102.5°	289.2	273.1	264.0	257.5	264.0	273.1	289.2	311.2	336.4	355.5	356.2
105°	377.1	366.5	357.5	356.1	357.5	366.5	377.1	390.0	397.2	391.9	363.9
107.5°	422.1	418.4	415.4	412.9	415.4	418.4	422.1	421.8	411.9	387.3	341.8
110°	435.1	437.3	436.7	436.2	436.7	437.3	435.1	427.2	407.6	372.3	320.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	431.7	438.6	440.8	440.8	440.8	438.6	431.7	417.3	392.1	352.6	300.0
115°	413.8	426.0	431.7	433.1	431.7	426.0	413.8	392.8	362.3	321.1	272.4
117.5°	384.3	398.4	406.4	408.3	406.4	398.4	384.3	362.3	331.4	294.5	252.4
120°	363.6	379.3	386.0	387.7	386.0	379.3	363.6	341.5	313.2	279.6	241.9
122.5°	344.8	358.9	366.3	368.4	366.3	358.9	344.8	325.2	298.9	267.8	233.6
125°	320.3	332.6	339.6	341.5	339.6	332.6	320.3	302.4	280.0	253.1	222.5
127.5°	300.7	311.2	317.6	319.3	317.6	311.2	300.7	284.8	264.4	240.1	212.9
130°	288.6	298.7	304.6	306.8	304.6	298.7	288.6	273.8	254.8	232.1	206.8
132.5°	277.7	287.7	292.9	294.5	292.9	287.7	277.7	263.7	245.6	224.4	201.3
135°	261.5	269.9	274.9	276.9	274.9	269.9	261.5	247.7	231.8	213.6	193.7
137.5°	244.2	252.7	256.9	258.3	256.9	252.7	244.2	232.7	218.8	203.1	186.8
140°	233.2	241.1	245.5	245.3	245.5	241.1	233.2	222.5	210.5	197.1	182.8
142.5°	222.4	229.4	233.4	233.1	233.4	229.4	222.4	213.3	202.9	191.2	179.0
145°	207.7	213.6	215.9	216.4	215.9	213.6	207.7	200.7	192.6	183.6	174.4
147.5°	196.3	200.3	202.4	202.6	202.4	200.3	196.3	191.0	185.2	178.0	170.6
150°	189.8	192.9	194.6	194.6	194.6	192.9	189.8	185.6	180.3	174.4	167.9
152.5°	183.9	186.8	187.8	187.8	187.8	186.8	183.9	180.7	176.3	171.0	165.5
155°	176.3	178.6	179.2	179.4	179.2	178.6	176.3	173.8	170.5	166.3	161.8
157.5°	169.7	171.3	171.8	171.7	171.8	171.3	169.7	167.5	164.9	161.6	157.9
160°	165.4	167.2	167.2	166.8	167.2	167.2	165.4	163.5	161.5	158.8	155.7
162.5°	161.2	162.6	162.6	162.4	162.6	162.6	161.2	159.9	158.2	155.6	153.0
165°	155.7	156.8	156.5	156.5	156.5	156.8	155.7	154.6	153.1	151.1	149.5
167.5°	150.4	151.1	150.9	150.9	150.9	151.1	150.4	149.9	148.9	147.7	146.5
170°	147.3	147.8	147.5	147.5	147.5	147.8	147.3	146.9	146.4	145.3	144.4
172.5°	144.6	145.1	144.7	144.4	144.7	145.1	144.6	144.5	144.2	143.3	142.7
175°	141.1	141.4	141.1	140.9	141.1	141.4	141.1	141.1	141.1	140.5	140.2
177.5°	138.9	139.2	138.7	138.7	138.7	139.2	138.9	139.2	139.2	138.9	138.7
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



TEST NUMBER: P332362-927

CATALOG NUMBER: S123RDIP-S1165D365U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1388.2	1395.2	1402.2	1408.7	1418.6	1423.1	1429.6	1432.0	1439.6	1450.5	1459.4
5°	1303.8	1313.8	1326.8	1337.4	1354.2	1367.3	1381.6	1395.3	1411.5	1434.6	1455.1
7.5°	1232.2	1242.1	1257.7	1277.4	1295.9	1314.5	1334.0	1352.7	1375.9	1408.9	1441.6
10°	1184.9	1196.7	1215.4	1236.5	1259.6	1277.6	1300.7	1324.4	1353.0	1391.0	1430.2
12.5°	1144.0	1152.9	1174.6	1194.7	1220.8	1243.8	1266.3	1294.0	1326.6	1367.1	1414.2
15°	1079.0	1091.5	1112.6	1135.0	1162.4	1186.8	1216.0	1249.6	1281.4	1331.2	1388.5
17.5°	1013.8	1032.7	1054.7	1080.0	1100.3	1133.8	1165.5	1200.1	1239.1	1292.0	1354.9
20°	971.9	986.9	1007.4	1044.2	1071.0	1096.5	1125.7	1168.7	1204.8	1264.6	1329.9
22.5°	936.6	947.5	970.6	1000.8	1032.1	1061.6	1091.3	1132.3	1176.9	1233.7	1304.6
25°	884.2	901.6	919.0	940.8	974.4	1009.9	1042.3	1077.1	1124.5	1184.9	1261.5
27.5°	833.0	848.7	865.9	892.7	918.2	951.4	985.2	1025.2	1076.0	1140.0	1217.6
30°	800.1	811.9	828.1	862.4	885.3	914.0	953.9	989.4	1036.6	1104.5	1186.8
32.5°	766.2	781.5	799.2	825.5	854.0	881.1	917.5	956.0	1004.3	1071.2	1155.3
35°	717.9	735.9	754.0	773.3	801.9	830.0	860.5	902.9	952.0	1016.8	1099.5
37.5°	673.4	688.0	702.7	726.6	753.8	780.4	808.9	850.6	897.0	966.9	1042.7
40°	645.1	658.1	669.3	694.3	720.4	749.0	777.1	813.8	863.6	929.0	1002.4
42.5°	614.2	626.2	641.4	661.9	690.0	714.2	742.2	776.9	823.7	890.1	954.6
45°	567.8	581.5	594.6	613.9	641.9	665.6	690.5	723.5	771.4	826.2	883.5
47.5°	519.7	533.4	548.3	567.0	591.4	615.4	640.3	669.6	713.3	767.1	805.6
50°	488.8	499.9	514.9	533.6	556.0	581.5	604.0	635.7	677.4	719.8	753.4
52.5°	456.9	467.1	484.0	503.7	524.7	546.7	570.6	597.9	635.6	675.4	702.1
55°	407.2	419.6	434.0	453.3	473.8	492.5	515.6	543.6	573.5	603.3	621.4
57.5°	360.8	371.1	383.2	403.1	420.9	443.2	463.8	485.7	513.3	535.8	547.6
60°	326.9	336.2	351.8	369.2	386.0	405.4	429.0	450.8	472.0	490.0	499.3
62.5°	295.0	305.9	319.4	335.3	353.6	371.9	392.6	410.9	429.6	445.2	451.5
65°	253.4	262.1	272.1	287.0	302.0	320.7	336.8	355.5	369.2	378.0	383.6
67.5°	215.6	221.3	228.9	238.8	253.5	269.8	285.5	300.1	311.6	317.5	322.5
70°	191.2	194.9	200.5	210.5	221.7	236.0	252.2	262.8	272.7	277.7	282.7
72.5°	166.8	171.5	176.6	184.6	193.8	204.1	215.8	228.9	234.3	240.3	243.4
75°	126.4	133.2	140.1	145.0	151.3	159.4	170.0	178.1	181.2	186.2	186.8
77.5°	95.4	96.9	101.9	108.1	113.3	119.1	125.9	133.1	134.6	137.2	138.9
80°	78.4	78.4	78.4	82.1	88.4	92.8	99.0	102.7	105.2	105.8	106.5
82.5°	63.0	63.0	62.5	63.3	65.5	67.9	73.6	77.8	79.9	79.5	78.1
85°	41.1	39.8	39.8	39.2	39.8	38.6	37.9	40.5	44.2	44.2	42.9
87.5°	18.3	17.8	18.1	17.5	16.9	16.2	14.6	15.0	14.8	16.6	16.1
90°	6.7	7.0	6.2	5.3	4.5	3.6	3.1	2.5	1.7	1.1	0.6
92.5°	32.5	43.0	47.4	35.6	23.5	16.2	12.0	9.7	7.5	5.1	3.5
95°	134.7	166.0	147.8	101.9	60.2	36.4	25.5	18.2	13.5	10.4	9.5
97.5°	275.2	257.3	188.4	111.8	64.8	42.1	30.3	23.1	18.9	16.5	16.2
100°	320.3	265.1	179.2	105.5	64.1	44.5	33.6	26.9	23.0	21.0	20.8
102.5°	322.5	250.6	165.7	100.1	65.0	47.5	37.4	31.4	27.6	25.9	25.4
105°	305.4	225.1	149.2	96.3	67.5	52.4	43.6	38.3	35.0	33.4	32.5
107.5°	275.5	202.6	138.7	96.0	72.1	58.8	50.7	45.7	42.5	40.8	40.0
110°	256.7	189.8	134.7	97.1	75.9	63.3	55.5	50.7	47.6	46.2	45.3



TEST NUMBER: P332362-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	240.3	181.3	132.4	99.4	79.7	68.0	60.4	55.6	52.5	51.1	50.3
115°	220.6	172.1	131.6	103.0	86.0	75.3	67.7	63.0	60.2	58.5	57.4
117.5°	208.7	166.8	132.1	107.8	92.6	82.1	75.1	69.8	67.2	65.8	64.5
120°	202.4	164.3	133.0	111.4	96.9	86.7	79.8	74.5	71.7	70.3	69.4
122.5°	197.3	162.8	134.5	114.8	101.3	91.5	84.1	79.0	75.9	74.5	73.7
125°	190.7	160.7	136.9	120.1	107.8	98.0	90.4	85.1	82.0	80.3	79.8
127.5°	184.8	159.7	139.6	124.5	113.4	103.9	96.3	90.5	87.4	85.2	84.4
130°	181.6	159.0	141.4	127.4	116.8	107.5	100.0	94.0	90.7	88.2	87.4
132.5°	178.8	158.8	142.8	130.1	119.6	110.7	103.3	97.4	93.4	90.6	89.6
135°	175.0	158.4	144.7	133.6	124.0	115.3	107.8	101.9	97.7	94.6	93.5
137.5°	171.7	157.8	146.1	136.1	127.1	118.7	111.7	105.8	101.4	98.4	97.2
140°	169.6	157.6	146.9	137.4	129.0	121.0	113.9	108.4	103.9	101.1	99.7
142.5°	167.9	157.2	147.7	138.8	130.6	122.7	116.2	110.6	106.5	103.5	102.3
145°	165.4	156.5	148.1	140.2	132.7	125.4	119.0	114.2	110.0	107.5	106.6
147.5°	163.1	155.4	148.1	141.2	134.4	127.7	122.2	117.6	114.0	111.5	111.1
150°	161.5	154.6	148.1	141.4	135.5	129.0	124.0	120.1	116.5	114.2	113.9
152.5°	159.7	153.4	147.4	141.8	136.2	130.6	125.8	122.3	119.1	116.9	116.8
155°	157.0	151.5	146.7	142.0	137.4	132.7	128.8	125.7	122.9	121.2	121.2
157.5°	154.0	149.7	145.8	142.2	138.2	134.4	131.3	128.7	126.3	124.9	124.7
160°	152.0	148.4	145.3	142.2	138.9	135.5	132.7	130.7	128.5	127.4	127.4
162.5°	150.0	147.0	144.4	142.0	139.1	136.2	133.8	132.1	130.3	129.4	129.4
165°	147.3	145.0	143.1	141.4	139.4	137.2	135.2	134.1	132.7	132.1	132.4
167.5°	144.7	143.0	141.7	140.9	139.3	137.8	136.5	135.7	134.7	134.4	134.7
170°	143.1	141.6	140.9	140.2	139.1	137.8	137.2	136.6	135.8	135.5	136.0
172.5°	141.5	140.5	140.1	140.1	139.1	137.9	137.6	137.3	136.7	136.6	137.0
175°	139.7	139.1	139.1	139.4	138.9	138.3	138.0	138.0	137.4	137.8	138.0
177.5°	138.6	138.3	138.6	138.9	138.6	138.3	138.3	138.3	138.1	138.3	138.6
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



TEST NUMBER: P332362-927

CATALOG NUMBER: S123RDIP-S1165D365U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1462.4	1467.9	1474.9	1485.3	1493.3	1500.3	1501.8	1503.8	1508.8	1517.2	1523.7
5°	1471.9	1486.2	1509.3	1531.7	1555.9	1575.9	1594.6	1607.7	1620.1	1646.2	1667.4
7.5°	1468.9	1500.8	1536.9	1577.2	1617.9	1657.3	1693.9	1726.6	1759.3	1797.4	1840.9
10°	1466.9	1504.3	1552.8	1604.5	1661.2	1716.6	1770.1	1811.9	1860.4	1904.0	1959.4
12.5°	1457.5	1511.2	1569.3	1635.4	1705.0	1768.9	1839.4	1897.0	1952.6	2015.5	2080.0
15°	1445.1	1510.5	1584.0	1671.7	1777.6	1854.8	1927.1	2027.3	2095.8	2164.2	2256.5
17.5°	1422.6	1502.4	1594.2	1708.3	1796.5	1900.3	2009.0	2088.2	2180.5	2277.0	2360.4
20°	1404.6	1497.5	1600.1	1712.2	1825.0	1937.6	2042.9	2137.5	2232.8	2344.2	2412.7
22.5°	1386.7	1478.5	1585.2	1704.3	1825.4	1944.1	2063.2	2174.4	2281.6	2394.1	2481.4
25°	1348.6	1457.6	1573.4	1694.8	1814.3	1945.1	2087.1	2211.0	2343.6	2459.4	2542.2
27.5°	1310.0	1409.8	1525.2	1648.4	1781.2	1935.8	2102.8	2243.6	2376.5	2459.4	2485.4
30°	1275.2	1381.0	1486.8	1612.0	1755.8	1928.3	2105.7	2267.0	2376.0	2412.0	2385.3
32.5°	1239.8	1335.7	1440.5	1568.7	1721.4	1909.9	2109.7	2253.0	2318.6	2291.1	2182.1
35°	1177.4	1263.9	1365.4	1493.7	1669.3	1899.7	2093.3	2190.4	2174.2	2018.6	1813.1
37.5°	1110.6	1181.1	1275.2	1409.3	1615.3	1859.2	2022.5	2036.9	1896.8	1657.8	1420.5
40°	1057.9	1121.3	1217.9	1358.0	1573.4	1819.3	1951.3	1893.4	1676.1	1410.2	1212.3
42.5°	1006.5	1060.1	1153.1	1304.2	1533.5	1765.1	1845.2	1719.1	1468.4	1217.0	1037.0
45°	919.6	970.0	1063.4	1218.5	1452.0	1661.2	1650.6	1431.4	1180.5	978.2	828.7
47.5°	837.2	881.3	968.9	1127.2	1356.2	1505.5	1406.5	1173.3	960.4	798.1	691.5
50°	778.9	822.5	909.7	1066.0	1279.5	1388.5	1247.1	1022.4	827.5	693.0	608.3
52.5°	723.1	765.7	845.4	997.7	1186.8	1252.0	1100.2	891.8	729.4	613.3	540.6
55°	645.1	677.4	749.0	894.7	1036.1	1051.0	897.2	722.9	589.0	508.1	458.3
57.5°	565.5	593.3	664.1	780.1	879.2	871.6	725.7	575.0	484.8	424.6	388.5
60°	513.7	541.1	603.3	703.0	777.7	751.5	617.7	496.2	419.1	374.9	346.2
62.5°	465.3	486.8	545.0	617.7	671.5	641.9	528.0	427.5	366.2	329.0	306.3
65°	395.4	412.8	459.5	497.5	527.4	498.8	404.1	334.4	290.2	264.0	248.4
67.5°	328.8	339.9	369.5	383.2	404.3	372.8	303.9	257.1	232.0	209.9	199.2
70°	287.0	295.1	310.7	321.9	327.5	295.1	244.1	209.8	188.6	173.1	166.3
72.5°	245.2	252.3	255.4	264.6	261.7	231.4	196.2	169.0	153.8	143.2	134.4
75°	187.4	190.5	187.4	183.7	175.5	154.4	130.2	116.5	105.2	100.2	97.1
77.5°	136.6	135.6	131.3	125.6	111.7	98.4	85.3	80.7	75.8	73.2	72.1
80°	105.2	102.7	99.0	89.7	77.8	68.5	65.4	62.3	60.4	57.3	56.6
82.5°	78.3	76.8	70.6	62.7	54.4	50.1	47.5	46.3	44.4	42.9	42.7
85°	41.7	39.8	33.0	28.7	27.4	26.1	25.5	25.5	23.1	22.4	22.4
87.5°	13.7	10.8	10.5	9.1	9.2	8.4	9.0	8.2	7.8	8.3	7.4
90°	1.1	1.7	2.5	3.1	3.6	4.5	5.3	6.2	7.0	6.7	7.0
92.5°	5.1	7.5	9.7	12.0	16.2	23.5	35.6	47.4	43.0	32.5	23.6
95°	10.4	13.5	18.2	25.5	36.4	60.2	101.9	147.8	166.0	134.7	100.8
97.5°	16.5	18.9	23.1	30.3	42.1	64.8	111.8	188.4	257.3	275.2	251.2
100°	21.0	23.0	26.9	33.6	44.5	64.1	105.5	179.2	265.1	320.3	330.0
102.5°	25.9	27.6	31.4	37.4	47.5	65.0	100.1	165.7	250.6	322.5	356.2
105°	33.4	35.0	38.3	43.6	52.4	67.5	96.3	149.2	225.1	305.4	363.9
107.5°	40.8	42.5	45.7	50.7	58.8	72.1	96.0	138.7	202.6	275.5	341.8
110°	46.2	47.6	50.7	55.5	63.3	75.9	97.1	134.7	189.8	256.7	320.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	51.1	52.5	55.6	60.4	68.0	79.7	99.4	132.4	181.3	240.3	300.0
115°	58.5	60.2	63.0	67.7	75.3	86.0	103.0	131.6	172.1	220.6	272.4
117.5°	65.8	67.2	69.8	75.1	82.1	92.6	107.8	132.1	166.8	208.7	252.4
120°	70.3	71.7	74.5	79.8	86.7	96.9	111.4	133.0	164.3	202.4	241.9
122.5°	74.5	75.9	79.0	84.1	91.5	101.3	114.8	134.5	162.8	197.3	233.6
125°	80.3	82.0	85.1	90.4	98.0	107.8	120.1	136.9	160.7	190.7	222.5
127.5°	85.2	87.4	90.5	96.3	103.9	113.4	124.5	139.6	159.7	184.8	212.9
130°	88.2	90.7	94.0	100.0	107.5	116.8	127.4	141.4	159.0	181.6	206.8
132.5°	90.6	93.4	97.4	103.3	110.7	119.6	130.1	142.8	158.8	178.8	201.3
135°	94.6	97.7	101.9	107.8	115.3	124.0	133.6	144.7	158.4	175.0	193.7
137.5°	98.4	101.4	105.8	111.7	118.7	127.1	136.1	146.1	157.8	171.7	186.8
140°	101.1	103.9	108.4	113.9	121.0	129.0	137.4	146.9	157.6	169.6	182.8
142.5°	103.5	106.5	110.6	116.2	122.7	130.6	138.8	147.7	157.2	167.9	179.0
145°	107.5	110.0	114.2	119.0	125.4	132.7	140.2	148.1	156.5	165.4	174.4
147.5°	111.5	114.0	117.6	122.2	127.7	134.4	141.2	148.1	155.4	163.1	170.6
150°	114.2	116.5	120.1	124.0	129.0	135.5	141.4	148.1	154.6	161.5	167.9
152.5°	116.9	119.1	122.3	125.8	130.6	136.2	141.8	147.4	153.4	159.7	165.5
155°	121.2	122.9	125.7	128.8	132.7	137.4	142.0	146.7	151.5	157.0	161.8
157.5°	124.9	126.3	128.7	131.3	134.4	138.2	142.2	145.8	149.7	154.0	157.9
160°	127.4	128.5	130.7	132.7	135.5	138.9	142.2	145.3	148.4	152.0	155.7
162.5°	129.4	130.3	132.1	133.8	136.2	139.1	142.0	144.4	147.0	150.0	153.0
165°	132.1	132.7	134.1	135.2	137.2	139.4	141.4	143.1	145.0	147.3	149.5
167.5°	134.4	134.7	135.7	136.5	137.8	139.3	140.9	141.7	143.0	144.7	146.5
170°	135.5	135.8	136.6	137.2	137.8	139.1	140.2	140.9	141.6	143.1	144.4
172.5°	136.6	136.7	137.3	137.6	137.9	139.1	140.1	140.1	140.5	141.5	142.7
175°	137.8	137.4	138.0	138.0	138.3	138.9	139.4	139.1	139.1	139.7	140.2
177.5°	138.3	138.1	138.3	138.3	138.3	138.6	138.9	138.6	138.3	138.6	138.7
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1534.1	1534.1	1536.1	1543.6	1544.6	1551.1	1549.1
5°	1686.1	1697.9	1702.2	1720.9	1732.2	1737.2	1727.2
7.5°	1871.8	1905.3	1921.0	1940.6	1958.0	1963.2	1949.6
10°	2007.4	2042.2	2071.5	2089.5	2106.3	2117.6	2131.9
12.5°	2138.3	2181.2	2209.0	2234.5	2251.8	2266.0	2268.3
15°	2280.7	2345.4	2394.6	2430.7	2448.8	2458.1	2454.4
17.5°	2424.2	2484.3	2519.3	2556.1	2581.2	2582.4	2583.1
20°	2505.4	2564.0	2604.5	2631.9	2659.9	2658.6	2664.8
22.5°	2559.8	2605.8	2636.9	2656.7	2666.3	2661.7	2662.8
25°	2585.1	2598.8	2593.3	2561.5	2553.4	2524.1	2529.1
27.5°	2454.2	2389.4	2322.4	2236.3	2168.3	2113.9	2116.7
30°	2276.3	2161.8	2031.0	1921.4	1823.0	1795.6	1737.2
32.5°	2027.7	1855.9	1702.8	1600.7	1516.2	1493.3	1442.2
35°	1606.4	1439.6	1282.0	1187.3	1150.0	1097.7	1097.1
37.5°	1248.6	1101.7	1018.4	947.4	910.1	878.5	875.4
40°	1050.4	935.8	872.9	821.9	785.1	761.4	755.9
42.5°	911.9	819.3	760.3	728.7	700.4	688.2	679.1
45°	744.7	682.4	641.3	612.7	599.6	590.3	585.3
47.5°	622.9	581.1	553.2	534.1	523.5	513.7	516.3
50°	556.7	522.4	501.8	483.8	475.7	468.8	469.4
52.5°	503.4	472.6	456.0	442.9	432.8	428.0	425.6
55°	427.1	407.8	391.0	381.7	376.0	369.2	367.3
57.5°	364.3	349.4	335.7	325.1	323.8	317.2	318.1
60°	322.5	310.1	298.9	293.3	288.9	283.3	285.2
62.5°	288.1	277.7	267.5	262.8	258.5	254.4	255.2
65°	236.0	226.0	219.8	217.3	215.4	213.6	211.7
67.5°	188.1	182.0	178.1	172.7	168.9	168.3	166.4
70°	158.1	150.0	143.2	136.3	134.5	133.9	134.5
72.5°	126.7	121.7	119.8	116.5	116.1	114.5	115.6
75°	95.3	93.4	92.1	89.7	89.7	89.7	89.7
77.5°	70.3	69.1	68.4	67.9	67.3	66.4	66.2
80°	54.8	54.2	52.9	52.9	52.3	52.9	52.3
82.5°	41.4	41.2	40.0	40.0	39.4	39.0	39.4
85°	21.2	20.5	21.8	20.5	21.2	20.0	21.2
87.5°	7.4	7.5	7.1	7.1	6.6	7.7	6.6
90°	7.3	7.5	8.1	7.8	8.1	8.4	8.1
92.5°	18.7	16.5	15.1	14.6	13.7	14.0	13.5
95°	68.3	53.5	43.4	38.1	35.6	33.6	32.5
97.5°	201.2	165.1	131.7	111.0	98.4	90.8	88.4
100°	307.4	274.6	234.9	206.6	186.2	175.2	175.5
102.5°	355.5	336.4	311.2	289.2	273.1	264.0	257.5
105°	391.9	397.2	390.0	377.1	366.5	357.5	356.1
107.5°	387.3	411.9	421.8	422.1	418.4	415.4	412.9
110°	372.3	407.6	427.2	435.1	437.3	436.7	436.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	352.6	392.1	417.3	431.7	438.6	440.8	440.8
115°	321.1	362.3	392.8	413.8	426.0	431.7	433.1
117.5°	294.5	331.4	362.3	384.3	398.4	406.4	408.3
120°	279.6	313.2	341.5	363.6	379.3	386.0	387.7
122.5°	267.8	298.9	325.2	344.8	358.9	366.3	368.4
125°	253.1	280.0	302.4	320.3	332.6	339.6	341.5
127.5°	240.1	264.4	284.8	300.7	311.2	317.6	319.3
130°	232.1	254.8	273.8	288.6	298.7	304.6	306.8
132.5°	224.4	245.6	263.7	277.7	287.7	292.9	294.5
135°	213.6	231.8	247.7	261.5	269.9	274.9	276.9
137.5°	203.1	218.8	232.7	244.2	252.7	256.9	258.3
140°	197.1	210.5	222.5	233.2	241.1	245.5	245.3
142.5°	191.2	202.9	213.3	222.4	229.4	233.4	233.1
145°	183.6	192.6	200.7	207.7	213.6	215.9	216.4
147.5°	178.0	185.2	191.0	196.3	200.3	202.4	202.6
150°	174.4	180.3	185.6	189.8	192.9	194.6	194.6
152.5°	171.0	176.3	180.7	183.9	186.8	187.8	187.8
155°	166.3	170.5	173.8	176.3	178.6	179.2	179.4
157.5°	161.6	164.9	167.5	169.7	171.3	171.8	171.7
160°	158.8	161.5	163.5	165.4	167.2	167.2	166.8
162.5°	155.6	158.2	159.9	161.2	162.6	162.6	162.4
165°	151.1	153.1	154.6	155.7	156.8	156.5	156.5
167.5°	147.7	148.9	149.9	150.4	151.1	150.9	150.9
170°	145.3	146.4	146.9	147.3	147.8	147.5	147.5
172.5°	143.3	144.2	144.5	144.6	145.1	144.7	144.4
175°	140.5	141.1	141.1	141.1	141.4	141.1	140.9
177.5°	138.9	139.2	139.2	138.9	139.2	138.7	138.7
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3

(END OF REPORT)