

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: P332362-935

Luminaire Tested: **S123RDIP-S1165D365U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332362-935
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-S1165D365U935-4F0-1E-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: 5068.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

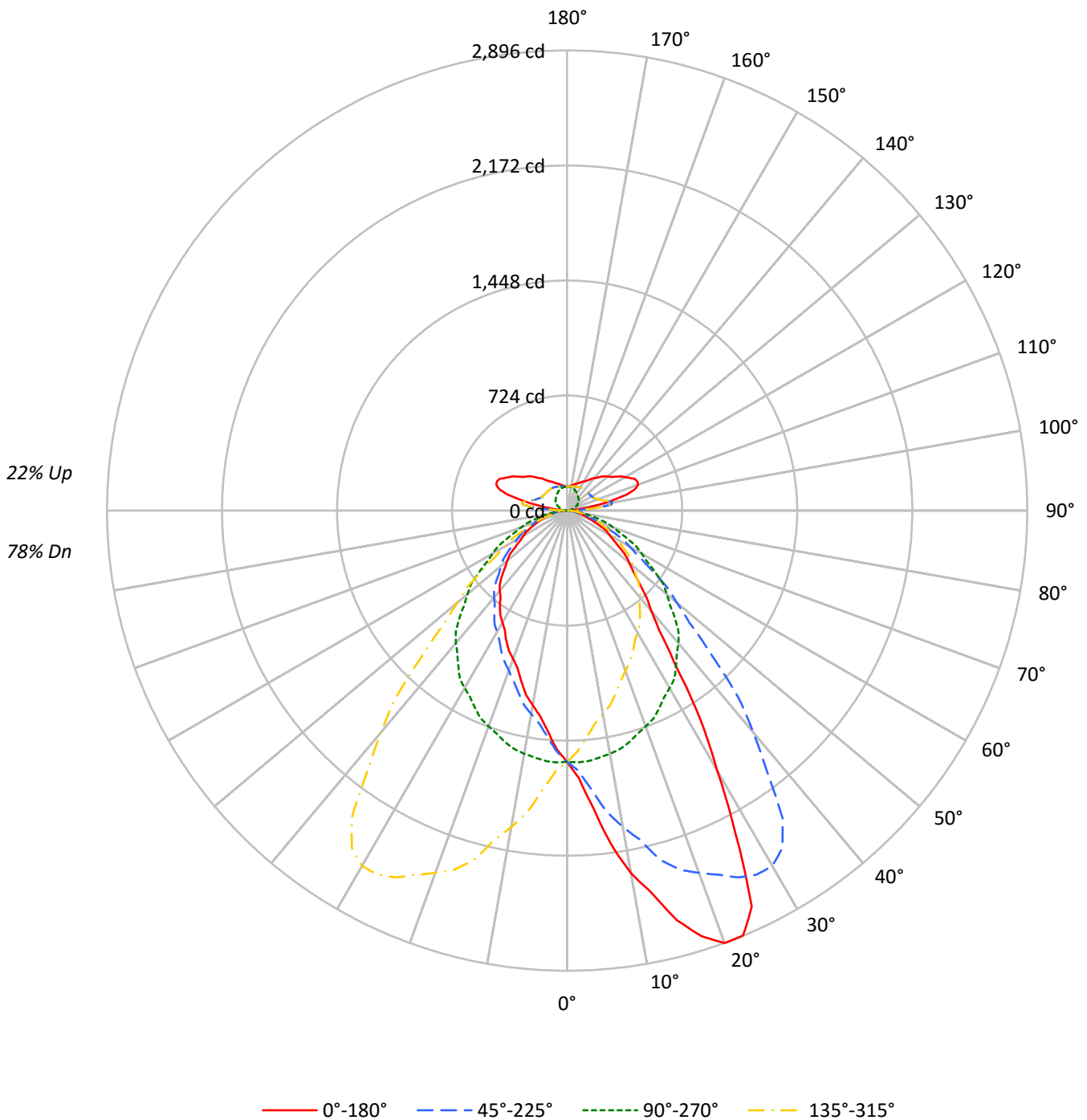
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17016	17016	17016	17016
5°	20283	17088	15048	17088
10°	25326	16990	13595	16990
15°	29727	16817	12397	16817
20°	33176	16557	11379	16557
25°	32647	16284	10753	16284
30°	23467	16032	10110	16032
35°	15669	15704	9692	15704
40°	11545	15309	9261	15309
45°	9683	14618	8840	14618
50°	8544	13711	8251	13711
55°	7492	12675	7443	12675
60°	6674	11683	6818	11683
65°	5861	10618	6342	10618
70°	4601	9668	5794	9668
75°	4055	8442	5294	8442
80°	3521	7172	5201	7172
85°	2841	5768	5521	5768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.1
10°-20°	485.7	9.6
20°-30°	763.0	15.1
30°-40°	796.1	15.7
40°-50°	681.2	13.4
50°-60°	519.2	10.2
60°-70°	332.8	6.6
70°-80°	160.1	3.2
80°-90°	43.5	0.9
90°-100°	83.7	1.7
100°-110°	236.9	4.7
110°-120°	233.0	4.6
120°-130°	185.8	3.7
130°-140°	146.5	2.9
140°-150°	109.4	2.2
150°-160°	76.2	1.5
160°-170°	44.8	0.9
170°-180°	14.6	0.3
0°-30°	1404.1	27.7
0°-40°	2200.2	43.4
0°-60°	3400.7	67.1
0°-90°	3937.1	77.7
90°-120°	553.5	10.9
90°-150°	995.3	19.6
90°-180°	1131.0	22.3
0°-180°	5068.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1581	1581	1581	1581	1581	
5°	1877	1582	1393	1582	1877	194
15°	2668	1509	1112	1509	2668	756
25°	2749	1371	905	1371	2749	1181
35°	1192	1195	738	1195	1192	782
45°	636	960	581	960	636	500
55°	399	675	397	675	399	361
65°	230	417	249	417	230	226
75°	98	203	127	203	98	105
85°	23	47	45	47	23	27
90°	9	1	9	1	9	5
95°	35	10	35	10	35	64
105°	387	35	387	35	387	382
115°	471	62	471	62	471	457
125°	371	87	371	87	371	336
135°	301	102	301	102	301	233
145°	235	116	235	116	235	150
155°	195	132	195	132	195	91
165°	170	144	170	144	170	49
175°	153	150	153	150	153	15
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1683.7	1685.8	1678.8	1677.7	1669.6	1667.4	1667.4	1656.0	1649.0	1639.9	1634.4
5°	1877.2	1888.1	1882.7	1870.4	1850.1	1845.4	1832.6	1812.2	1789.2	1760.8	1747.3
7.5°	2118.9	2133.7	2128.0	2109.2	2087.9	2070.8	2034.5	2000.8	1953.5	1912.1	1876.6
10°	2317.1	2301.5	2289.3	2271.1	2251.4	2219.7	2181.8	2129.6	2069.4	2022.1	1969.3
12.5°	2465.4	2462.9	2447.4	2428.6	2400.9	2370.7	2324.1	2260.6	2190.6	2122.2	2061.8
15°	2667.6	2671.7	2661.5	2641.9	2602.6	2549.2	2478.8	2452.5	2352.3	2277.9	2203.4
17.5°	2807.5	2806.8	2805.4	2778.2	2738.2	2700.1	2634.8	2565.4	2474.8	2369.9	2269.6
20°	2896.3	2889.6	2891.0	2860.5	2830.7	2786.7	2723.1	2622.3	2547.9	2426.7	2323.2
22.5°	2894.2	2892.9	2898.0	2887.5	2865.9	2832.2	2782.1	2697.0	2602.0	2479.8	2363.3
25°	2748.8	2743.4	2775.3	2784.0	2818.6	2824.6	2809.7	2763.0	2673.1	2547.2	2403.1
27.5°	2300.6	2297.6	2356.6	2430.5	2524.2	2596.9	2667.4	2701.3	2673.1	2582.9	2438.5
30°	1888.1	1951.6	1981.4	2088.4	2207.4	2349.6	2474.1	2592.5	2621.6	2582.4	2463.9
32.5°	1567.5	1623.1	1648.0	1739.7	1850.7	2017.2	2203.9	2371.6	2490.1	2520.1	2448.8
35°	1192.4	1193.1	1249.9	1290.5	1393.4	1564.6	1745.9	1970.6	2193.9	2363.1	2380.7
37.5°	951.5	954.8	989.2	1029.7	1106.8	1197.4	1357.1	1543.9	1801.8	2061.6	2213.8
40°	821.6	827.6	853.3	893.3	948.7	1017.1	1141.6	1317.6	1532.8	1821.7	2057.9
42.5°	738.1	748.0	761.3	792.0	826.4	890.4	991.1	1127.0	1322.8	1595.9	1868.5
45°	636.1	641.5	651.7	665.9	697.0	741.7	809.3	900.7	1063.2	1283.1	1555.7
47.5°	561.1	558.3	568.9	580.5	601.2	631.6	677.0	751.6	867.5	1043.9	1275.2
50°	510.2	509.5	517.0	525.8	545.4	567.7	605.0	661.2	753.2	899.4	1111.2
52.5°	462.6	465.2	470.5	481.4	495.6	513.7	547.1	587.5	666.6	792.7	969.3
55°	399.2	401.3	408.7	414.8	425.0	443.2	464.3	498.1	552.2	640.2	785.7
57.5°	345.7	344.7	351.9	353.4	364.9	379.8	396.0	422.2	461.5	526.9	624.9
60°	310.0	307.9	314.0	318.7	324.9	337.0	350.5	376.3	407.4	455.5	539.3
62.5°	277.4	276.5	280.9	285.7	290.8	301.8	313.1	332.9	357.6	398.0	464.6
65°	230.1	232.1	234.1	236.2	238.8	245.6	256.5	270.0	287.0	315.4	363.4
67.5°	180.8	182.9	183.6	187.7	193.6	197.8	204.4	216.5	228.2	252.2	279.5
70°	146.2	145.5	146.2	148.2	155.7	163.1	171.9	180.7	188.1	205.0	228.1
72.5°	125.6	124.4	126.1	126.6	130.2	132.2	137.8	146.0	155.7	167.1	183.7
75°	97.5	97.5	97.5	97.5	100.1	101.5	103.6	105.6	108.9	114.3	126.6
77.5°	72.0	72.2	73.1	73.8	74.3	75.1	76.4	78.4	79.6	82.4	87.7
80°	56.8	57.5	56.8	57.5	57.5	58.9	59.6	61.6	62.3	65.6	67.7
82.5°	42.8	42.4	42.8	43.5	43.5	44.8	44.9	46.4	46.6	48.3	50.4
85°	23.0	21.7	23.0	22.3	23.7	22.3	23.0	24.4	24.4	25.1	27.7
87.5°	7.1	8.4	7.1	7.7	7.7	8.2	8.1	8.0	9.0	8.5	9.0
90°	8.8	9.1	8.8	8.5	8.8	8.2	7.9	7.6	7.3	7.6	6.7
92.5°	14.6	15.2	14.9	15.8	16.4	17.9	20.3	25.7	35.3	46.8	51.5
95°	35.3	36.5	38.7	41.4	47.2	58.1	74.2	109.5	146.4	180.5	160.7
97.5°	96.1	98.7	106.9	120.6	143.1	179.4	218.7	273.0	299.1	279.7	204.7
100°	190.8	190.5	202.3	224.5	255.3	298.5	334.1	358.7	348.1	288.2	194.8
102.5°	279.8	286.9	296.8	314.4	338.3	365.7	386.4	387.2	350.5	272.3	180.1
105°	387.0	388.6	398.3	409.8	423.9	431.7	425.9	395.5	331.9	244.6	162.2
107.5°	448.8	451.5	454.8	458.7	458.5	447.6	420.9	371.5	299.5	220.2	150.8
110°	474.1	474.7	475.3	472.9	464.3	443.0	404.7	348.7	279.1	206.3	146.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	479.1	479.1	476.7	469.2	453.6	426.2	383.2	326.1	261.2	197.0	143.9
115°	470.7	469.2	463.0	449.7	426.9	393.7	349.0	296.0	239.8	187.1	143.0
117.5°	443.8	441.7	433.0	417.7	393.8	360.2	320.0	274.3	226.8	181.2	143.5
120°	421.4	419.6	412.2	395.2	371.2	340.4	303.9	262.9	220.0	178.6	144.6
122.5°	400.5	398.1	390.1	374.8	353.4	324.9	291.0	253.9	214.4	176.9	146.2
125°	371.2	369.1	361.4	348.1	328.6	304.3	275.1	241.9	207.2	174.6	148.8
127.5°	347.1	345.2	338.3	326.8	309.5	287.3	261.0	231.4	200.9	173.6	151.7
130°	333.5	331.1	324.7	313.7	297.6	276.9	252.3	224.8	197.4	172.8	153.7
132.5°	320.1	318.4	312.7	301.8	286.6	266.9	243.9	218.8	194.3	172.5	155.2
135°	300.9	298.8	293.3	284.2	269.2	251.9	232.1	210.5	190.2	172.2	157.3
137.5°	280.7	279.2	274.7	265.4	252.9	237.8	220.8	203.0	186.6	171.5	158.8
140°	266.6	266.8	262.0	253.5	241.9	228.8	214.2	198.7	184.3	171.3	159.7
142.5°	253.4	253.7	249.3	241.8	231.9	220.5	207.8	194.6	182.4	170.8	160.5
145°	235.2	234.6	232.1	225.8	218.2	209.3	199.6	189.6	179.8	170.0	160.9
147.5°	220.2	220.0	217.7	213.4	207.6	201.3	193.5	185.5	177.3	168.9	160.9
150°	211.5	211.5	209.7	206.3	201.7	196.0	189.6	182.5	175.6	168.0	160.9
152.5°	204.1	204.1	203.0	199.9	196.4	191.6	185.9	179.9	173.6	166.8	160.2
155°	195.0	194.8	194.2	191.7	188.9	185.3	180.7	175.9	170.7	164.6	159.5
157.5°	186.7	186.8	186.2	184.4	182.1	179.2	175.6	171.6	167.4	162.7	158.4
160°	181.3	181.7	181.7	179.8	177.7	175.6	172.5	169.2	165.2	161.3	157.9
162.5°	176.5	176.8	176.8	175.2	173.8	171.9	169.1	166.3	163.0	159.8	157.0
165°	170.0	170.0	170.4	169.2	168.0	166.4	164.3	162.5	160.1	157.6	155.5
167.5°	164.0	164.0	164.3	163.4	162.9	161.8	160.6	159.2	157.2	155.4	154.0
170°	160.3	160.3	160.7	160.1	159.7	159.1	157.9	157.0	155.5	153.9	153.1
172.5°	157.0	157.2	157.7	157.1	157.0	156.7	155.8	155.1	153.8	152.7	152.3
175°	153.1	153.3	153.7	153.3	153.3	153.3	152.7	152.4	151.8	151.2	151.2
177.5°	150.8	150.8	151.3	151.0	151.3	151.3	151.0	150.8	150.6	150.3	150.6
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1632.3	1630.6	1623.1	1614.4	1603.0	1595.4	1589.5	1586.2	1576.5	1564.6	1556.4
5°	1733.1	1712.8	1691.1	1664.7	1640.4	1615.3	1599.7	1581.5	1559.2	1534.1	1516.6
7.5°	1841.1	1801.3	1758.4	1714.2	1670.4	1631.2	1596.6	1566.8	1531.3	1495.4	1470.2
10°	1923.9	1865.7	1805.5	1743.9	1687.7	1635.0	1594.3	1554.4	1511.8	1470.5	1439.4
12.5°	1999.2	1922.5	1853.1	1777.4	1705.6	1642.5	1584.1	1537.1	1485.8	1441.8	1406.4
15°	2094.5	2015.9	1932.0	1817.0	1721.6	1641.8	1570.6	1509.1	1446.8	1392.7	1358.1
17.5°	2183.5	2065.4	1952.6	1856.7	1732.7	1632.9	1546.2	1472.6	1404.2	1346.8	1304.3
20°	2220.3	2105.9	1983.5	1861.0	1739.1	1627.5	1526.6	1445.4	1374.4	1309.4	1270.2
22.5°	2242.5	2113.0	1984.0	1852.4	1722.9	1607.0	1507.2	1417.9	1340.8	1279.1	1230.7
25°	2268.4	2114.1	1971.9	1842.0	1710.0	1584.2	1465.8	1371.1	1287.8	1222.2	1170.7
27.5°	2285.4	2103.9	1936.0	1791.6	1657.7	1532.3	1423.8	1323.4	1239.0	1169.5	1114.3
30°	2288.6	2095.8	1908.3	1752.0	1616.0	1501.0	1386.0	1289.9	1200.5	1126.7	1075.3
32.5°	2293.0	2075.8	1871.0	1705.0	1565.6	1451.7	1347.5	1255.7	1164.2	1091.6	1039.1
35°	2275.1	2064.7	1814.3	1623.4	1484.0	1373.7	1279.7	1195.1	1105.1	1034.7	981.3
37.5°	2198.2	2020.7	1755.6	1531.7	1386.0	1283.8	1207.1	1133.3	1050.9	974.9	924.5
40°	2120.8	1977.4	1710.0	1475.9	1323.7	1218.7	1149.8	1089.5	1009.7	938.6	884.5
42.5°	2005.5	1918.4	1666.7	1417.5	1253.3	1152.2	1094.0	1037.5	967.4	895.3	844.4
45°	1794.0	1805.5	1578.1	1324.3	1155.8	1054.3	999.5	960.3	898.0	838.4	786.4
47.5°	1528.7	1636.3	1474.0	1225.1	1053.1	957.9	909.9	875.6	833.7	775.2	727.7
50°	1355.5	1509.1	1390.7	1158.6	988.7	894.0	846.5	818.8	782.3	736.2	691.0
52.5°	1195.8	1360.7	1290.0	1084.3	918.9	832.2	785.9	763.1	734.1	690.8	649.8
55°	975.2	1142.3	1126.1	972.4	814.1	736.2	701.1	675.4	655.7	623.3	590.8
57.5°	788.8	947.3	955.6	847.9	721.8	644.9	614.6	595.2	582.4	557.9	527.9
60°	671.3	816.8	845.2	764.1	655.7	588.1	558.3	542.7	532.6	513.0	489.9
62.5°	573.9	697.7	729.9	671.4	592.4	529.1	505.8	490.8	483.9	466.9	446.6
65°	439.2	542.1	573.2	540.7	499.4	448.7	429.7	416.9	410.8	401.3	386.4
67.5°	330.3	405.2	439.4	416.5	401.6	369.5	357.4	350.5	345.1	338.6	326.1
70°	265.3	320.7	355.9	349.8	337.7	320.7	311.9	307.2	301.8	296.4	285.6
72.5°	213.3	251.5	284.5	287.6	277.6	274.2	266.5	264.5	261.2	254.7	248.7
75°	141.5	167.8	190.8	199.7	203.7	207.1	203.7	203.0	202.3	196.9	193.6
77.5°	92.7	106.9	121.4	136.5	142.8	147.4	148.4	150.9	149.1	146.3	144.6
80°	71.0	74.5	84.6	97.5	107.6	111.7	114.3	115.7	115.0	114.3	111.7
82.5°	51.6	54.4	59.2	68.2	76.7	83.5	85.2	84.9	86.4	86.8	84.6
85°	27.7	28.4	29.8	31.2	35.9	43.3	45.4	46.7	48.0	48.0	44.0
87.5°	9.8	9.1	10.0	9.9	11.4	11.7	14.9	17.5	18.1	16.1	16.3
90°	5.8	4.9	4.0	3.4	2.8	1.8	1.2	0.6	1.2	1.8	2.8
92.5°	38.7	25.6	17.6	13.1	10.5	8.2	5.6	3.8	5.6	8.2	10.5
95°	110.7	65.4	39.5	27.7	19.8	14.6	11.3	10.3	11.3	14.6	19.8
97.5°	121.5	70.4	45.7	32.9	25.1	20.6	17.9	17.7	17.9	20.6	25.1
100°	114.7	69.7	48.4	36.5	29.2	25.0	22.8	22.6	22.8	25.0	29.2
102.5°	108.8	70.7	51.6	40.6	34.1	30.0	28.2	27.6	28.2	30.0	34.1
105°	104.7	73.4	56.9	47.4	41.7	38.1	36.2	35.3	36.2	38.1	41.7
107.5°	104.4	78.4	63.9	55.1	49.7	46.1	44.3	43.5	44.3	46.1	49.7
110°	105.6	82.5	68.8	60.3	55.1	51.7	50.2	49.2	50.2	51.7	55.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	108.1	86.6	73.9	65.6	60.4	57.1	55.5	54.7	55.5	57.1	60.4
115°	111.9	93.4	81.9	73.6	68.4	65.4	63.6	62.3	63.6	65.4	68.4
117.5°	117.2	100.7	89.2	81.6	75.9	73.0	71.5	70.1	71.5	73.0	75.9
120°	121.1	105.3	94.3	86.7	80.9	77.9	76.4	75.4	76.4	77.9	80.9
122.5°	124.8	110.1	99.4	91.4	85.8	82.5	81.0	80.1	81.0	82.5	85.8
125°	130.5	117.2	106.5	98.2	92.5	89.1	87.3	86.7	87.3	89.1	92.5
127.5°	135.3	123.2	113.0	104.7	98.3	95.0	92.6	91.8	92.6	95.0	98.3
130°	138.4	126.9	116.8	108.7	102.2	98.6	95.8	95.0	95.8	98.6	102.2
132.5°	141.4	130.0	120.3	112.3	105.9	101.5	98.5	97.4	98.5	101.5	105.9
135°	145.2	134.7	125.4	117.2	110.7	106.2	102.8	101.6	102.8	106.2	110.7
137.5°	147.9	138.1	129.0	121.4	115.0	110.2	106.9	105.6	106.9	110.2	115.0
140°	149.4	140.3	131.5	123.8	117.8	112.9	109.9	108.3	109.9	112.9	117.8
142.5°	150.8	142.0	133.4	126.3	120.2	115.8	112.5	111.2	112.5	115.8	120.2
145°	152.4	144.2	136.3	129.3	124.2	119.6	116.8	115.9	116.8	119.6	124.2
147.5°	153.4	146.0	138.8	132.9	127.9	123.9	121.2	120.7	121.2	123.9	127.9
150°	153.7	147.2	140.3	134.7	130.5	126.6	124.2	123.8	124.2	126.6	130.5
152.5°	154.1	148.0	142.0	136.7	132.9	129.5	127.1	127.0	127.1	129.5	132.9
155°	154.3	149.4	144.2	140.0	136.6	133.5	131.7	131.7	131.7	133.5	136.6
157.5°	154.5	150.2	146.0	142.8	139.9	137.2	135.8	135.5	135.8	137.2	139.9
160°	154.5	150.9	147.2	144.2	142.1	139.7	138.4	138.4	138.4	139.7	142.1
162.5°	154.3	151.2	148.0	145.4	143.5	141.6	140.6	140.6	140.6	141.6	143.5
165°	153.7	151.5	149.1	147.0	145.8	144.2	143.6	143.9	143.6	144.2	145.8
167.5°	153.2	151.4	149.7	148.4	147.5	146.4	146.0	146.4	146.0	146.4	147.5
170°	152.4	151.2	149.7	149.1	148.4	147.6	147.2	147.8	147.2	147.6	148.4
172.5°	152.2	151.2	149.9	149.6	149.2	148.5	148.4	148.9	148.4	148.5	149.2
175°	151.5	150.9	150.3	150.0	150.0	149.4	149.7	150.0	149.7	149.4	150.0
177.5°	151.0	150.6	150.3	150.3	150.3	150.1	150.3	150.6	150.3	150.1	150.3
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



TEST NUMBER: P332362-935

CATALOG NUMBER: S123RDIP-S1165D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1553.8	1546.7	1541.9	1531.0	1524.0	1516.4	1508.8	1513.7	1513.1	1512.6	1512.6
5°	1501.7	1486.1	1471.9	1453.6	1442.1	1427.9	1417.0	1415.7	1418.4	1408.9	1403.5
7.5°	1449.9	1428.7	1408.5	1388.4	1367.0	1350.0	1339.2	1334.2	1327.3	1321.5	1315.4
10°	1413.7	1388.6	1369.0	1343.9	1320.9	1300.6	1287.8	1279.0	1274.3	1269.5	1260.8
12.5°	1376.3	1351.9	1326.8	1298.5	1276.6	1253.0	1243.4	1233.6	1224.4	1219.2	1207.1
15°	1321.6	1289.9	1263.4	1233.6	1209.3	1186.3	1172.8	1153.1	1150.4	1143.7	1131.4
17.5°	1266.8	1232.3	1195.9	1173.8	1146.3	1122.4	1101.8	1095.2	1075.8	1068.5	1058.0
20°	1223.5	1191.7	1164.0	1134.9	1094.9	1072.6	1056.4	1047.6	1032.0	1022.5	1015.7
22.5°	1186.1	1153.8	1121.7	1087.8	1054.9	1029.8	1018.0	1004.3	995.7	982.5	975.2
25°	1132.8	1097.6	1059.0	1022.5	998.8	979.9	961.0	948.7	936.6	930.5	917.0
27.5°	1070.8	1034.1	998.0	970.3	941.2	922.5	905.3	894.5	879.9	869.6	862.1
30°	1036.7	993.4	962.3	937.3	900.0	882.4	869.6	856.1	845.2	834.4	827.0
32.5°	997.2	957.7	928.2	897.2	868.7	849.4	832.8	820.9	811.7	801.3	793.9
35°	935.2	902.1	871.6	840.5	819.5	799.9	780.2	770.1	761.3	751.8	745.1
37.5°	879.2	848.2	819.2	789.7	763.7	747.8	731.9	724.2	712.3	705.9	699.0
40°	844.6	814.1	783.0	754.6	727.5	715.3	701.1	689.6	678.7	674.0	666.6
42.5°	806.7	776.2	749.9	719.4	697.2	680.6	667.5	655.0	646.8	639.9	635.7
45°	750.4	723.4	697.7	667.3	646.3	632.1	617.2	605.6	598.2	593.5	586.0
47.5°	695.9	668.9	642.7	616.2	595.9	579.7	564.8	556.8	546.9	541.1	536.1
50°	656.4	632.1	604.3	580.0	559.6	543.4	531.2	521.1	512.3	504.8	501.4
52.5°	620.2	594.2	570.2	547.4	526.1	507.6	496.5	485.9	479.2	470.7	466.8
55°	560.3	535.3	515.0	492.7	471.7	456.1	442.6	433.1	426.4	416.9	411.5
57.5°	504.1	481.7	457.4	438.1	416.5	403.3	392.1	379.3	371.0	363.5	358.3
60°	466.2	440.6	419.6	401.3	382.4	365.4	355.2	345.1	336.3	328.9	324.2
62.5°	426.7	404.2	384.4	364.5	347.2	332.4	320.6	312.1	304.4	299.6	294.9
65°	366.1	348.5	328.2	311.9	295.8	284.9	275.4	267.9	262.6	259.2	255.1
67.5°	310.3	293.3	275.5	259.6	248.7	240.5	234.3	227.9	225.2	220.8	218.2
70°	274.1	256.5	240.9	228.8	217.9	211.8	207.8	203.0	200.3	194.9	192.2
72.5°	234.5	221.8	210.6	200.6	191.9	186.4	181.2	175.4	171.1	165.1	162.4
75°	184.8	173.2	164.5	157.6	152.2	144.8	137.4	131.3	129.2	127.3	126.6
77.5°	136.8	129.5	123.1	117.4	110.7	105.3	103.7	102.3	101.9	100.8	100.8
80°	107.6	100.8	96.1	89.3	85.2	85.2	85.2	83.9	84.6	84.6	84.6
82.5°	80.0	73.8	71.2	68.8	67.9	68.4	68.4	68.8	68.4	69.4	68.9
85°	41.2	41.9	43.3	42.6	43.3	43.3	44.7	44.0	44.7	43.3	44.7
87.5°	15.8	17.6	18.3	19.0	19.7	19.4	19.9	19.9	20.5	20.6	20.8
90°	3.4	4.0	4.9	5.8	6.7	7.6	7.3	7.6	7.9	8.2	8.8
92.5°	13.1	17.6	25.6	38.7	51.5	46.8	35.3	25.7	20.3	17.9	16.4
95°	27.7	39.5	65.4	110.7	160.7	180.5	146.4	109.5	74.2	58.1	47.2
97.5°	32.9	45.7	70.4	121.5	204.7	279.7	299.1	273.0	218.7	179.4	143.1
100°	36.5	48.4	69.7	114.7	194.8	288.2	348.1	358.7	334.1	298.5	255.3
102.5°	40.6	51.6	70.7	108.8	180.1	272.3	350.5	387.2	386.4	365.7	338.3
105°	47.4	56.9	73.4	104.7	162.2	244.6	331.9	395.5	425.9	431.7	423.9
107.5°	55.1	63.9	78.4	104.4	150.8	220.2	299.5	371.5	420.9	447.6	458.5
110°	60.3	68.8	82.5	105.6	146.4	206.3	279.1	348.7	404.7	443.0	464.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	65.6	73.9	86.6	108.1	143.9	197.0	261.2	326.1	383.2	426.2	453.6
115°	73.6	81.9	93.4	111.9	143.0	187.1	239.8	296.0	349.0	393.7	426.9
117.5°	81.6	89.2	100.7	117.2	143.5	181.2	226.8	274.3	320.0	360.2	393.8
120°	86.7	94.3	105.3	121.1	144.6	178.6	220.0	262.9	303.9	340.4	371.2
122.5°	91.4	99.4	110.1	124.8	146.2	176.9	214.4	253.9	291.0	324.9	353.4
125°	98.2	106.5	117.2	130.5	148.8	174.6	207.2	241.9	275.1	304.3	328.6
127.5°	104.7	113.0	123.2	135.3	151.7	173.6	200.9	231.4	261.0	287.3	309.5
130°	108.7	116.8	126.9	138.4	153.7	172.8	197.4	224.8	252.3	276.9	297.6
132.5°	112.3	120.3	130.0	141.4	155.2	172.5	194.3	218.8	243.9	266.9	286.6
135°	117.2	125.4	134.7	145.2	157.3	172.2	190.2	210.5	232.1	251.9	269.2
137.5°	121.4	129.0	138.1	147.9	158.8	171.5	186.6	203.0	220.8	237.8	252.9
140°	123.8	131.5	140.3	149.4	159.7	171.3	184.3	198.7	214.2	228.8	241.9
142.5°	126.3	133.4	142.0	150.8	160.5	170.8	182.4	194.6	207.8	220.5	231.9
145°	129.3	136.3	144.2	152.4	160.9	170.0	179.8	189.6	199.6	209.3	218.2
147.5°	132.9	138.8	146.0	153.4	160.9	168.9	177.3	185.5	193.5	201.3	207.6
150°	134.7	140.3	147.2	153.7	160.9	168.0	175.6	182.5	189.6	196.0	201.7
152.5°	136.7	142.0	148.0	154.1	160.2	166.8	173.6	179.9	185.9	191.6	196.4
155°	140.0	144.2	149.4	154.3	159.5	164.6	170.7	175.9	180.7	185.3	188.9
157.5°	142.8	146.0	150.2	154.5	158.4	162.7	167.4	171.6	175.6	179.2	182.1
160°	144.2	147.2	150.9	154.5	157.9	161.3	165.2	169.2	172.5	175.6	177.7
162.5°	145.4	148.0	151.2	154.3	157.0	159.8	163.0	166.3	169.1	171.9	173.8
165°	147.0	149.1	151.5	153.7	155.5	157.6	160.1	162.5	164.3	166.4	168.0
167.5°	148.4	149.7	151.4	153.2	154.0	155.4	157.2	159.2	160.6	161.8	162.9
170°	149.1	149.7	151.2	152.4	153.1	153.9	155.5	157.0	157.9	159.1	159.7
172.5°	149.6	149.9	151.2	152.2	152.3	152.7	153.8	155.1	155.8	156.7	157.0
175°	150.0	150.3	150.9	151.5	151.2	151.2	151.8	152.4	152.7	153.3	153.3
177.5°	150.3	150.3	150.6	151.0	150.6	150.3	150.6	150.8	151.0	151.3	151.3
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



TEST NUMBER: P332362-935

CATALOG NUMBER: S123RDIP-S1165D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1506.1	1505.5	1506.1	1503.9	1506.1	1505.5	1506.1	1512.6	1512.6	1513.1	1513.7
5°	1401.4	1400.8	1398.8	1392.7	1398.8	1400.8	1401.4	1403.5	1408.9	1418.4	1415.7
7.5°	1310.1	1309.2	1303.2	1303.4	1303.2	1309.2	1310.1	1315.4	1321.5	1327.3	1334.2
10°	1256.0	1256.6	1248.5	1243.8	1248.5	1256.6	1256.0	1260.8	1269.5	1274.3	1279.0
12.5°	1203.5	1200.4	1193.9	1188.6	1193.9	1200.4	1203.5	1207.1	1219.2	1224.4	1233.6
15°	1134.2	1127.4	1111.2	1112.5	1111.2	1127.4	1134.2	1131.4	1143.7	1150.4	1153.1
17.5°	1052.6	1047.6	1047.3	1037.8	1047.3	1047.6	1052.6	1058.0	1068.5	1075.8	1095.2
20°	1005.0	1001.5	1002.9	993.4	1002.9	1001.5	1005.0	1015.7	1022.5	1032.0	1047.6
22.5°	967.6	964.1	958.5	955.5	958.5	964.1	967.6	975.2	982.5	995.7	1004.3
25°	912.9	907.5	902.1	905.4	902.1	907.5	912.9	917.0	930.5	936.6	948.7
27.5°	858.2	854.2	848.8	848.1	848.8	854.2	858.2	862.1	869.6	879.9	894.5
30°	823.5	819.5	816.8	813.4	816.8	819.5	823.5	827.0	834.4	845.2	856.1
32.5°	788.4	787.6	782.7	782.0	782.7	787.6	788.4	793.9	801.3	811.7	820.9
35°	742.4	738.3	736.9	737.6	736.9	738.3	742.4	745.1	751.8	761.3	770.1
37.5°	698.6	693.2	690.8	688.4	690.8	693.2	698.6	699.0	705.9	712.3	724.2
40°	667.3	661.9	660.5	659.1	660.5	661.9	667.3	666.6	674.0	678.7	689.6
42.5°	632.1	629.9	629.0	626.6	629.0	629.9	632.1	635.7	639.9	646.8	655.0
45°	584.0	583.3	579.3	580.7	579.3	583.3	584.0	586.0	593.5	598.2	605.6
47.5°	533.4	530.4	527.5	529.4	527.5	530.4	533.4	536.1	541.1	546.9	556.8
50°	498.8	497.4	491.3	492.7	491.3	497.4	498.8	501.4	504.8	512.3	521.1
52.5°	464.1	458.9	456.7	455.8	456.7	458.9	464.1	466.8	470.7	479.2	485.9
55°	406.7	400.6	397.9	396.6	397.9	400.6	406.7	411.5	416.9	426.4	433.1
57.5°	350.4	348.8	346.6	348.1	346.6	348.8	350.4	358.3	363.5	371.0	379.3
60°	317.4	317.4	317.4	316.7	317.4	317.4	317.4	324.2	328.9	336.3	345.1
62.5°	292.0	290.3	289.8	290.8	289.8	290.3	292.0	294.9	299.6	304.4	312.1
65°	253.1	252.4	249.7	249.0	249.7	252.4	253.1	255.1	259.2	262.6	267.9
67.5°	216.5	214.0	213.2	212.2	213.2	214.0	216.5	218.2	220.8	225.2	227.9
70°	188.8	187.4	183.4	184.1	183.4	187.4	188.8	192.2	194.9	200.3	203.0
72.5°	159.0	157.6	156.9	155.9	156.9	157.6	159.0	162.4	165.1	171.1	175.4
75°	125.9	125.2	124.5	127.3	124.5	125.2	125.9	126.6	127.3	129.2	131.3
77.5°	100.8	100.8	101.3	100.1	101.3	100.8	100.8	100.8	100.8	101.9	102.3
80°	84.6	84.6	83.9	83.9	83.9	84.6	84.6	84.6	84.6	84.6	83.9
82.5°	67.8	68.4	68.8	67.7	68.8	68.4	67.8	68.9	69.4	68.4	68.8
85°	44.7	44.0	45.4	44.7	45.4	44.0	44.7	44.7	43.3	44.7	44.0
87.5°	21.7	20.8	20.8	21.3	20.8	20.8	21.7	20.8	20.6	20.5	19.9
90°	8.5	8.8	9.1	8.8	9.1	8.8	8.5	8.8	8.2	7.9	7.6
92.5°	15.8	14.9	15.2	14.6	15.2	14.9	15.8	16.4	17.9	20.3	25.7
95°	41.4	38.7	36.5	35.3	36.5	38.7	41.4	47.2	58.1	74.2	109.5
97.5°	120.6	106.9	98.7	96.1	98.7	106.9	120.6	143.1	179.4	218.7	273.0
100°	224.5	202.3	190.5	190.8	190.5	202.3	224.5	255.3	298.5	334.1	358.7
102.5°	314.4	296.8	286.9	279.8	286.9	296.8	314.4	338.3	365.7	386.4	387.2
105°	409.8	398.3	388.6	387.0	388.6	398.3	409.8	423.9	431.7	425.9	395.5
107.5°	458.7	454.8	451.5	448.8	451.5	454.8	458.7	458.5	447.6	420.9	371.5
110°	472.9	475.3	474.7	474.1	474.7	475.3	472.9	464.3	443.0	404.7	348.7



TEST NUMBER: P332362-935

CATALOG NUMBER: S123RDIP-S1165D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	469.2	476.7	479.1	479.1	479.1	476.7	469.2	453.6	426.2	383.2	326.1
115°	449.7	463.0	469.2	470.7	469.2	463.0	449.7	426.9	393.7	349.0	296.0
117.5°	417.7	433.0	441.7	443.8	441.7	433.0	417.7	393.8	360.2	320.0	274.3
120°	395.2	412.2	419.6	421.4	419.6	412.2	395.2	371.2	340.4	303.9	262.9
122.5°	374.8	390.1	398.1	400.5	398.1	390.1	374.8	353.4	324.9	291.0	253.9
125°	348.1	361.4	369.1	371.2	369.1	361.4	348.1	328.6	304.3	275.1	241.9
127.5°	326.8	338.3	345.2	347.1	345.2	338.3	326.8	309.5	287.3	261.0	231.4
130°	313.7	324.7	331.1	333.5	331.1	324.7	313.7	297.6	276.9	252.3	224.8
132.5°	301.8	312.7	318.4	320.1	318.4	312.7	301.8	286.6	266.9	243.9	218.8
135°	284.2	293.3	298.8	300.9	298.8	293.3	284.2	269.2	251.9	232.1	210.5
137.5°	265.4	274.7	279.2	280.7	279.2	274.7	265.4	252.9	237.8	220.8	203.0
140°	253.5	262.0	266.8	266.6	266.8	262.0	253.5	241.9	228.8	214.2	198.7
142.5°	241.8	249.3	253.7	253.4	253.7	249.3	241.8	231.9	220.5	207.8	194.6
145°	225.8	232.1	234.6	235.2	234.6	232.1	225.8	218.2	209.3	199.6	189.6
147.5°	213.4	217.7	220.0	220.2	220.0	217.7	213.4	207.6	201.3	193.5	185.5
150°	206.3	209.7	211.5	211.5	211.5	209.7	206.3	201.7	196.0	189.6	182.5
152.5°	199.9	203.0	204.1	204.1	204.1	203.0	199.9	196.4	191.6	185.9	179.9
155°	191.7	194.2	194.8	195.0	194.8	194.2	191.7	188.9	185.3	180.7	175.9
157.5°	184.4	186.2	186.8	186.7	186.8	186.2	184.4	182.1	179.2	175.6	171.6
160°	179.8	181.7	181.7	181.3	181.7	181.7	179.8	177.7	175.6	172.5	169.2
162.5°	175.2	176.8	176.8	176.5	176.8	176.8	175.2	173.8	171.9	169.1	166.3
165°	169.2	170.4	170.0	170.0	170.0	170.4	169.2	168.0	166.4	164.3	162.5
167.5°	163.4	164.3	164.0	164.0	164.0	164.3	163.4	162.9	161.8	160.6	159.2
170°	160.1	160.7	160.3	160.3	160.3	160.7	160.1	159.7	159.1	157.9	157.0
172.5°	157.1	157.7	157.2	157.0	157.2	157.7	157.1	157.0	156.7	155.8	155.1
175°	153.3	153.7	153.3	153.1	153.3	153.7	153.3	153.3	153.3	152.7	152.4
177.5°	151.0	151.3	150.8	150.8	150.8	151.3	151.0	151.3	151.3	151.0	150.8
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



TEST NUMBER: P332362-935

CATALOG NUMBER: S123RDIP-S1165D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1508.8	1516.4	1524.0	1531.0	1541.9	1546.7	1553.8	1556.4	1564.6	1576.5	1586.2
5°	1417.0	1427.9	1442.1	1453.6	1471.9	1486.1	1501.7	1516.6	1534.1	1559.2	1581.5
7.5°	1339.2	1350.0	1367.0	1388.4	1408.5	1428.7	1449.9	1470.2	1495.4	1531.3	1566.8
10°	1287.8	1300.6	1320.9	1343.9	1369.0	1388.6	1413.7	1439.4	1470.5	1511.8	1554.4
12.5°	1243.4	1253.0	1276.6	1298.5	1326.8	1351.9	1376.3	1406.4	1441.8	1485.8	1537.1
15°	1172.8	1186.3	1209.3	1233.6	1263.4	1289.9	1321.6	1358.1	1392.7	1446.8	1509.1
17.5°	1101.8	1122.4	1146.3	1173.8	1195.9	1232.3	1266.8	1304.3	1346.8	1404.2	1472.6
20°	1056.4	1072.6	1094.9	1134.9	1164.0	1191.7	1223.5	1270.2	1309.4	1374.4	1445.4
22.5°	1018.0	1029.8	1054.9	1087.8	1121.7	1153.8	1186.1	1230.7	1279.1	1340.8	1417.9
25°	961.0	979.9	998.8	1022.5	1059.0	1097.6	1132.8	1170.7	1222.2	1287.8	1371.1
27.5°	905.3	922.5	941.2	970.3	998.0	1034.1	1070.8	1114.3	1169.5	1239.0	1323.4
30°	869.6	882.4	900.0	937.3	962.3	993.4	1036.7	1075.3	1126.7	1200.5	1289.9
32.5°	832.8	849.4	868.7	897.2	928.2	957.7	997.2	1039.1	1091.6	1164.2	1255.7
35°	780.2	799.9	819.5	840.5	871.6	902.1	935.2	981.3	1034.7	1105.1	1195.1
37.5°	731.9	747.8	763.7	789.7	819.2	848.2	879.2	924.5	974.9	1050.9	1133.3
40°	701.1	715.3	727.5	754.6	783.0	814.1	844.6	884.5	938.6	1009.7	1089.5
42.5°	667.5	680.6	697.2	719.4	749.9	776.2	806.7	844.4	895.3	967.4	1037.5
45°	617.2	632.1	646.3	667.3	697.7	723.4	750.4	786.4	838.4	898.0	960.3
47.5°	564.8	579.7	595.9	616.2	642.7	668.9	695.9	727.7	775.2	833.7	875.6
50°	531.2	543.4	559.6	580.0	604.3	632.1	656.4	691.0	736.2	782.3	818.8
52.5°	496.5	507.6	526.1	547.4	570.2	594.2	620.2	649.8	690.8	734.1	763.1
55°	442.6	456.1	471.7	492.7	515.0	535.3	560.3	590.8	623.3	655.7	675.4
57.5°	392.1	403.3	416.5	438.1	457.4	481.7	504.1	527.9	557.9	582.4	595.2
60°	355.2	365.4	382.4	401.3	419.6	440.6	466.2	489.9	513.0	532.6	542.7
62.5°	320.6	332.4	347.2	364.5	384.4	404.2	426.7	446.6	466.9	483.9	490.8
65°	275.4	284.9	295.8	311.9	328.2	348.5	366.1	386.4	401.3	410.8	416.9
67.5°	234.3	240.5	248.7	259.6	275.5	293.3	310.3	326.1	338.6	345.1	350.5
70°	207.8	211.8	217.9	228.8	240.9	256.5	274.1	285.6	296.4	301.8	307.2
72.5°	181.2	186.4	191.9	200.6	210.6	221.8	234.5	248.7	254.7	261.2	264.5
75°	137.4	144.8	152.2	157.6	164.5	173.2	184.8	193.6	196.9	202.3	203.0
77.5°	103.7	105.3	110.7	117.4	123.1	129.5	136.8	144.6	146.3	149.1	150.9
80°	85.2	85.2	85.2	89.3	96.1	100.8	107.6	111.7	114.3	115.0	115.7
82.5°	68.4	68.4	67.9	68.8	71.2	73.8	80.0	84.6	86.8	86.4	84.9
85°	44.7	43.3	43.3	42.6	43.3	41.9	41.2	44.0	48.0	48.0	46.7
87.5°	19.9	19.4	19.7	19.0	18.3	17.6	15.8	16.3	16.1	18.1	17.5
90°	7.3	7.6	6.7	5.8	4.9	4.0	3.4	2.8	1.8	1.2	0.6
92.5°	35.3	46.8	51.5	38.7	25.6	17.6	13.1	10.5	8.2	5.6	3.8
95°	146.4	180.5	160.7	110.7	65.4	39.5	27.7	19.8	14.6	11.3	10.3
97.5°	299.1	279.7	204.7	121.5	70.4	45.7	32.9	25.1	20.6	17.9	17.7
100°	348.1	288.2	194.8	114.7	69.7	48.4	36.5	29.2	25.0	22.8	22.6
102.5°	350.5	272.3	180.1	108.8	70.7	51.6	40.6	34.1	30.0	28.2	27.6
105°	331.9	244.6	162.2	104.7	73.4	56.9	47.4	41.7	38.1	36.2	35.3
107.5°	299.5	220.2	150.8	104.4	78.4	63.9	55.1	49.7	46.1	44.3	43.5
110°	279.1	206.3	146.4	105.6	82.5	68.8	60.3	55.1	51.7	50.2	49.2



TEST NUMBER: P332362-935

CATALOG NUMBER: S123RDIP-S1165D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	261.2	197.0	143.9	108.1	86.6	73.9	65.6	60.4	57.1	55.5	54.7
115°	239.8	187.1	143.0	111.9	93.4	81.9	73.6	68.4	65.4	63.6	62.3
117.5°	226.8	181.2	143.5	117.2	100.7	89.2	81.6	75.9	73.0	71.5	70.1
120°	220.0	178.6	144.6	121.1	105.3	94.3	86.7	80.9	77.9	76.4	75.4
122.5°	214.4	176.9	146.2	124.8	110.1	99.4	91.4	85.8	82.5	81.0	80.1
125°	207.2	174.6	148.8	130.5	117.2	106.5	98.2	92.5	89.1	87.3	86.7
127.5°	200.9	173.6	151.7	135.3	123.2	113.0	104.7	98.3	95.0	92.6	91.8
130°	197.4	172.8	153.7	138.4	126.9	116.8	108.7	102.2	98.6	95.8	95.0
132.5°	194.3	172.5	155.2	141.4	130.0	120.3	112.3	105.9	101.5	98.5	97.4
135°	190.2	172.2	157.3	145.2	134.7	125.4	117.2	110.7	106.2	102.8	101.6
137.5°	186.6	171.5	158.8	147.9	138.1	129.0	121.4	115.0	110.2	106.9	105.6
140°	184.3	171.3	159.7	149.4	140.3	131.5	123.8	117.8	112.9	109.9	108.3
142.5°	182.4	170.8	160.5	150.8	142.0	133.4	126.3	120.2	115.8	112.5	111.2
145°	179.8	170.0	160.9	152.4	144.2	136.3	129.3	124.2	119.6	116.8	115.9
147.5°	177.3	168.9	160.9	153.4	146.0	138.8	132.9	127.9	123.9	121.2	120.7
150°	175.6	168.0	160.9	153.7	147.2	140.3	134.7	130.5	126.6	124.2	123.8
152.5°	173.6	166.8	160.2	154.1	148.0	142.0	136.7	132.9	129.5	127.1	127.0
155°	170.7	164.6	159.5	154.3	149.4	144.2	140.0	136.6	133.5	131.7	131.7
157.5°	167.4	162.7	158.4	154.5	150.2	146.0	142.8	139.9	137.2	135.8	135.5
160°	165.2	161.3	157.9	154.5	150.9	147.2	144.2	142.1	139.7	138.4	138.4
162.5°	163.0	159.8	157.0	154.3	151.2	148.0	145.4	143.5	141.6	140.6	140.6
165°	160.1	157.6	155.5	153.7	151.5	149.1	147.0	145.8	144.2	143.6	143.9
167.5°	157.2	155.4	154.0	153.2	151.4	149.7	148.4	147.5	146.4	146.0	146.4
170°	155.5	153.9	153.1	152.4	151.2	149.7	149.1	148.4	147.6	147.2	147.8
172.5°	153.8	152.7	152.3	152.2	151.2	149.9	149.6	149.2	148.5	148.4	148.9
175°	151.8	151.2	151.2	151.5	150.9	150.3	150.0	150.0	149.4	149.7	150.0
177.5°	150.6	150.3	150.6	151.0	150.6	150.3	150.3	150.3	150.1	150.3	150.6
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



TEST NUMBER: P332362-935

CATALOG NUMBER: S123RDIP-S1165D365U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1589.5	1595.4	1603.0	1614.4	1623.1	1630.6	1632.3	1634.4	1639.9	1649.0	1656.0
5°	1599.7	1615.3	1640.4	1664.7	1691.1	1712.8	1733.1	1747.3	1760.8	1789.2	1812.2
7.5°	1596.6	1631.2	1670.4	1714.2	1758.4	1801.3	1841.1	1876.6	1912.1	1953.5	2000.8
10°	1594.3	1635.0	1687.7	1743.9	1805.5	1865.7	1923.9	1969.3	2022.1	2069.4	2129.6
12.5°	1584.1	1642.5	1705.6	1777.4	1853.1	1922.5	1999.2	2061.8	2122.2	2190.6	2260.6
15°	1570.6	1641.8	1721.6	1817.0	1932.0	2015.9	2094.5	2203.4	2277.9	2352.3	2452.5
17.5°	1546.2	1632.9	1732.7	1856.7	1952.6	2065.4	2183.5	2269.6	2369.9	2474.8	2565.4
20°	1526.6	1627.5	1739.1	1861.0	1983.5	2105.9	2220.3	2323.2	2426.7	2547.9	2622.3
22.5°	1507.2	1607.0	1722.9	1852.4	1984.0	2113.0	2242.5	2363.3	2479.8	2602.0	2697.0
25°	1465.8	1584.2	1710.0	1842.0	1971.9	2114.1	2268.4	2403.1	2547.2	2673.1	2763.0
27.5°	1423.8	1532.3	1657.7	1791.6	1936.0	2103.9	2285.4	2438.5	2582.9	2673.1	2701.3
30°	1386.0	1501.0	1616.0	1752.0	1908.3	2095.8	2288.6	2463.9	2582.4	2621.6	2592.5
32.5°	1347.5	1451.7	1565.6	1705.0	1871.0	2075.8	2293.0	2448.8	2520.1	2490.1	2371.6
35°	1279.7	1373.7	1484.0	1623.4	1814.3	2064.7	2275.1	2380.7	2363.1	2193.9	1970.6
37.5°	1207.1	1283.8	1386.0	1531.7	1755.6	2020.7	2198.2	2213.8	2061.6	1801.8	1543.9
40°	1149.8	1218.7	1323.7	1475.9	1710.0	1977.4	2120.8	2057.9	1821.7	1532.8	1317.6
42.5°	1094.0	1152.2	1253.3	1417.5	1666.7	1918.4	2005.5	1868.5	1595.9	1322.8	1127.0
45°	999.5	1054.3	1155.8	1324.3	1578.1	1805.5	1794.0	1555.7	1283.1	1063.2	900.7
47.5°	909.9	957.9	1053.1	1225.1	1474.0	1636.3	1528.7	1275.2	1043.9	867.5	751.6
50°	846.5	894.0	988.7	1158.6	1390.7	1509.1	1355.5	1111.2	899.4	753.2	661.2
52.5°	785.9	832.2	918.9	1084.3	1290.0	1360.7	1195.8	969.3	792.7	666.6	587.5
55°	701.1	736.2	814.1	972.4	1126.1	1142.3	975.2	785.7	640.2	552.2	498.1
57.5°	614.6	644.9	721.8	847.9	955.6	947.3	788.8	624.9	526.9	461.5	422.2
60°	558.3	588.1	655.7	764.1	845.2	816.8	671.3	539.3	455.5	407.4	376.3
62.5°	505.8	529.1	592.4	671.4	729.9	697.7	573.9	464.6	398.0	357.6	332.9
65°	429.7	448.7	499.4	540.7	573.2	542.1	439.2	363.4	315.4	287.0	270.0
67.5°	357.4	369.5	401.6	416.5	439.4	405.2	330.3	279.5	252.2	228.2	216.5
70°	311.9	320.7	337.7	349.8	355.9	320.7	265.3	228.1	205.0	188.1	180.7
72.5°	266.5	274.2	277.6	287.6	284.5	251.5	213.3	183.7	167.1	155.7	146.0
75°	203.7	207.1	203.7	199.7	190.8	167.8	141.5	126.6	114.3	108.9	105.6
77.5°	148.4	147.4	142.8	136.5	121.4	106.9	92.7	87.7	82.4	79.6	78.4
80°	114.3	111.7	107.6	97.5	84.6	74.5	71.0	67.7	65.6	62.3	61.6
82.5°	85.2	83.5	76.7	68.2	59.2	54.4	51.6	50.4	48.3	46.6	46.4
85°	45.4	43.3	35.9	31.2	29.8	28.4	27.7	27.7	25.1	24.4	24.4
87.5°	14.9	11.7	11.4	9.9	10.0	9.1	9.8	9.0	8.5	9.0	8.0
90°	1.2	1.8	2.8	3.4	4.0	4.9	5.8	6.7	7.6	7.3	7.6
92.5°	5.6	8.2	10.5	13.1	17.6	25.6	38.7	51.5	46.8	35.3	25.7
95°	11.3	14.6	19.8	27.7	39.5	65.4	110.7	160.7	180.5	146.4	109.5
97.5°	17.9	20.6	25.1	32.9	45.7	70.4	121.5	204.7	279.7	299.1	273.0
100°	22.8	25.0	29.2	36.5	48.4	69.7	114.7	194.8	288.2	348.1	358.7
102.5°	28.2	30.0	34.1	40.6	51.6	70.7	108.8	180.1	272.3	350.5	387.2
105°	36.2	38.1	41.7	47.4	56.9	73.4	104.7	162.2	244.6	331.9	395.5
107.5°	44.3	46.1	49.7	55.1	63.9	78.4	104.4	150.8	220.2	299.5	371.5
110°	50.2	51.7	55.1	60.3	68.8	82.5	105.6	146.4	206.3	279.1	348.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.5	57.1	60.4	65.6	73.9	86.6	108.1	143.9	197.0	261.2	326.1
115°	63.6	65.4	68.4	73.6	81.9	93.4	111.9	143.0	187.1	239.8	296.0
117.5°	71.5	73.0	75.9	81.6	89.2	100.7	117.2	143.5	181.2	226.8	274.3
120°	76.4	77.9	80.9	86.7	94.3	105.3	121.1	144.6	178.6	220.0	262.9
122.5°	81.0	82.5	85.8	91.4	99.4	110.1	124.8	146.2	176.9	214.4	253.9
125°	87.3	89.1	92.5	98.2	106.5	117.2	130.5	148.8	174.6	207.2	241.9
127.5°	92.6	95.0	98.3	104.7	113.0	123.2	135.3	151.7	173.6	200.9	231.4
130°	95.8	98.6	102.2	108.7	116.8	126.9	138.4	153.7	172.8	197.4	224.8
132.5°	98.5	101.5	105.9	112.3	120.3	130.0	141.4	155.2	172.5	194.3	218.8
135°	102.8	106.2	110.7	117.2	125.4	134.7	145.2	157.3	172.2	190.2	210.5
137.5°	106.9	110.2	115.0	121.4	129.0	138.1	147.9	158.8	171.5	186.6	203.0
140°	109.9	112.9	117.8	123.8	131.5	140.3	149.4	159.7	171.3	184.3	198.7
142.5°	112.5	115.8	120.2	126.3	133.4	142.0	150.8	160.5	170.8	182.4	194.6
145°	116.8	119.6	124.2	129.3	136.3	144.2	152.4	160.9	170.0	179.8	189.6
147.5°	121.2	123.9	127.9	132.9	138.8	146.0	153.4	160.9	168.9	177.3	185.5
150°	124.2	126.6	130.5	134.7	140.3	147.2	153.7	160.9	168.0	175.6	182.5
152.5°	127.1	129.5	132.9	136.7	142.0	148.0	154.1	160.2	166.8	173.6	179.9
155°	131.7	133.5	136.6	140.0	144.2	149.4	154.3	159.5	164.6	170.7	175.9
157.5°	135.8	137.2	139.9	142.8	146.0	150.2	154.5	158.4	162.7	167.4	171.6
160°	138.4	139.7	142.1	144.2	147.2	150.9	154.5	157.9	161.3	165.2	169.2
162.5°	140.6	141.6	143.5	145.4	148.0	151.2	154.3	157.0	159.8	163.0	166.3
165°	143.6	144.2	145.8	147.0	149.1	151.5	153.7	155.5	157.6	160.1	162.5
167.5°	146.0	146.4	147.5	148.4	149.7	151.4	153.2	154.0	155.4	157.2	159.2
170°	147.2	147.6	148.4	149.1	149.7	151.2	152.4	153.1	153.9	155.5	157.0
172.5°	148.4	148.5	149.2	149.6	149.9	151.2	152.2	152.3	152.7	153.8	155.1
175°	149.7	149.4	150.0	150.0	150.3	150.9	151.5	151.2	151.2	151.8	152.4
177.5°	150.3	150.1	150.3	150.3	150.3	150.6	151.0	150.6	150.3	150.6	150.8
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1667.4	1667.4	1669.6	1677.7	1678.8	1685.8	1683.7
5°	1832.6	1845.4	1850.1	1870.4	1882.7	1888.1	1877.2
7.5°	2034.5	2070.8	2087.9	2109.2	2128.0	2133.7	2118.9
10°	2181.8	2219.7	2251.4	2271.1	2289.3	2301.5	2317.1
12.5°	2324.1	2370.7	2400.9	2428.6	2447.4	2462.9	2465.4
15°	2478.8	2549.2	2602.6	2641.9	2661.5	2671.7	2667.6
17.5°	2634.8	2700.1	2738.2	2778.2	2805.4	2806.8	2807.5
20°	2723.1	2786.7	2830.7	2860.5	2891.0	2889.6	2896.3
22.5°	2782.1	2832.2	2865.9	2887.5	2898.0	2892.9	2894.2
25°	2809.7	2824.6	2818.6	2784.0	2775.3	2743.4	2748.8
27.5°	2667.4	2596.9	2524.2	2430.5	2356.6	2297.6	2300.6
30°	2474.1	2349.6	2207.4	2088.4	1981.4	1951.6	1888.1
32.5°	2203.9	2017.2	1850.7	1739.7	1648.0	1623.1	1567.5
35°	1745.9	1564.6	1393.4	1290.5	1249.9	1193.1	1192.4
37.5°	1357.1	1197.4	1106.8	1029.7	989.2	954.8	951.5
40°	1141.6	1017.1	948.7	893.3	853.3	827.6	821.6
42.5°	991.1	890.4	826.4	792.0	761.3	748.0	738.1
45°	809.3	741.7	697.0	665.9	651.7	641.5	636.1
47.5°	677.0	631.6	601.2	580.5	568.9	558.3	561.1
50°	605.0	567.7	545.4	525.8	517.0	509.5	510.2
52.5°	547.1	513.7	495.6	481.4	470.5	465.2	462.6
55°	464.3	443.2	425.0	414.8	408.7	401.3	399.2
57.5°	396.0	379.8	364.9	353.4	351.9	344.7	345.7
60°	350.5	337.0	324.9	318.7	314.0	307.9	310.0
62.5°	313.1	301.8	290.8	285.7	280.9	276.5	277.4
65°	256.5	245.6	238.8	236.2	234.1	232.1	230.1
67.5°	204.4	197.8	193.6	187.7	183.6	182.9	180.8
70°	171.9	163.1	155.7	148.2	146.2	145.5	146.2
72.5°	137.8	132.2	130.2	126.6	126.1	124.4	125.6
75°	103.6	101.5	100.1	97.5	97.5	97.5	97.5
77.5°	76.4	75.1	74.3	73.8	73.1	72.2	72.0
80°	59.6	58.9	57.5	57.5	56.8	57.5	56.8
82.5°	44.9	44.8	43.5	43.5	42.8	42.4	42.8
85°	23.0	22.3	23.7	22.3	23.0	21.7	23.0
87.5°	8.1	8.2	7.7	7.7	7.1	8.4	7.1
90°	7.9	8.2	8.8	8.5	8.8	9.1	8.8
92.5°	20.3	17.9	16.4	15.8	14.9	15.2	14.6
95°	74.2	58.1	47.2	41.4	38.7	36.5	35.3
97.5°	218.7	179.4	143.1	120.6	106.9	98.7	96.1
100°	334.1	298.5	255.3	224.5	202.3	190.5	190.8
102.5°	386.4	365.7	338.3	314.4	296.8	286.9	279.8
105°	425.9	431.7	423.9	409.8	398.3	388.6	387.0
107.5°	420.9	447.6	458.5	458.7	454.8	451.5	448.8
110°	404.7	443.0	464.3	472.9	475.3	474.7	474.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	383.2	426.2	453.6	469.2	476.7	479.1	479.1
115°	349.0	393.7	426.9	449.7	463.0	469.2	470.7
117.5°	320.0	360.2	393.8	417.7	433.0	441.7	443.8
120°	303.9	340.4	371.2	395.2	412.2	419.6	421.4
122.5°	291.0	324.9	353.4	374.8	390.1	398.1	400.5
125°	275.1	304.3	328.6	348.1	361.4	369.1	371.2
127.5°	261.0	287.3	309.5	326.8	338.3	345.2	347.1
130°	252.3	276.9	297.6	313.7	324.7	331.1	333.5
132.5°	243.9	266.9	286.6	301.8	312.7	318.4	320.1
135°	232.1	251.9	269.2	284.2	293.3	298.8	300.9
137.5°	220.8	237.8	252.9	265.4	274.7	279.2	280.7
140°	214.2	228.8	241.9	253.5	262.0	266.8	266.6
142.5°	207.8	220.5	231.9	241.8	249.3	253.7	253.4
145°	199.6	209.3	218.2	225.8	232.1	234.6	235.2
147.5°	193.5	201.3	207.6	213.4	217.7	220.0	220.2
150°	189.6	196.0	201.7	206.3	209.7	211.5	211.5
152.5°	185.9	191.6	196.4	199.9	203.0	204.1	204.1
155°	180.7	185.3	188.9	191.7	194.2	194.8	195.0
157.5°	175.6	179.2	182.1	184.4	186.2	186.8	186.7
160°	172.5	175.6	177.7	179.8	181.7	181.7	181.3
162.5°	169.1	171.9	173.8	175.2	176.8	176.8	176.5
165°	164.3	166.4	168.0	169.2	170.4	170.0	170.0
167.5°	160.6	161.8	162.9	163.4	164.3	164.0	164.0
170°	157.9	159.1	159.7	160.1	160.7	160.3	160.3
172.5°	155.8	156.7	157.0	157.1	157.7	157.2	157.0
175°	152.7	153.3	153.3	153.3	153.7	153.3	153.1
177.5°	151.0	151.3	151.3	151.0	151.3	150.8	150.8
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3

(END OF REPORT)