

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: P333261-935

Luminaire Tested: **S125DIP-S1090D590U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333261-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S1090D590U935-4F0-1E-UDD-A4  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5691.7 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: Semi-Direct

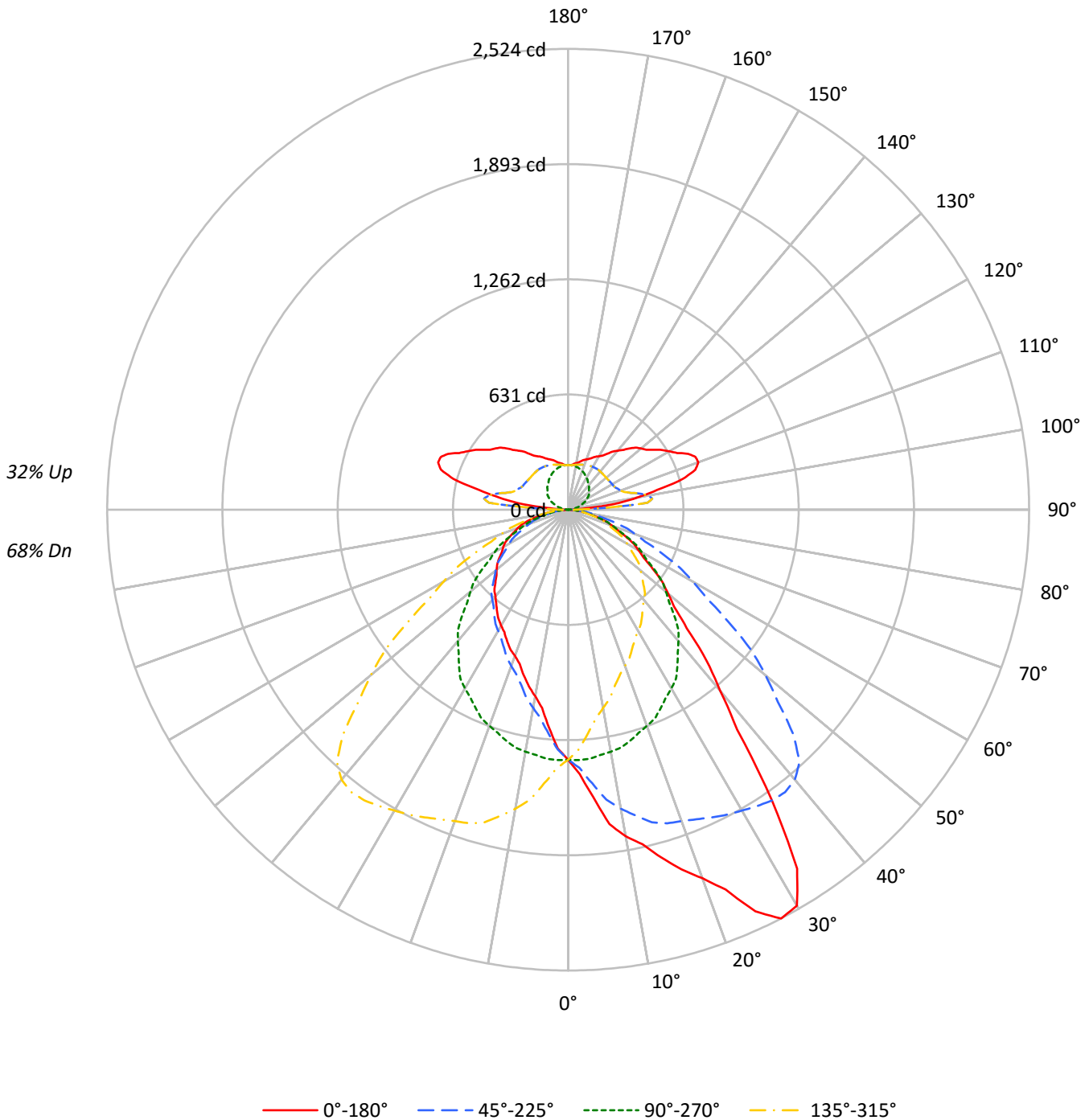
Input Watts (W): 48.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	73	73	73	68
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	65	63	62	58
2	93	86	80	74	88	81	76	71	73	68	65	65	61	58	57	55	53	49
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	51	44	38	46	40	36	42	37	33	37	33	30	28
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	27	24
8	57	44	37	31	54	42	35	30	39	32	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

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

	0°	90°	180°	270°
0°	8843	8843	8843	8843
5°	10240	8873	7769	8873
10°	11913	8826	6807	8826
15°	13188	8762	6279	8762
20°	14762	8659	5856	8659
25°	17293	8543	5648	8543
30°	18678	8429	5469	8429
35°	15358	8215	5351	8215
40°	10916	7917	5223	7917
45°	8386	7516	5149	7516
50°	7159	7018	5138	7018
55°	6373	6531	5183	6531
60°	5749	5997	5315	5997
65°	5310	5462	5453	5462
70°	4828	4906	5531	4906
75°	4262	4319	5480	4319
80°	3585	3522	5013	3522
85°	2838	2542	4046	2542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	2.3
10°-20°	392.4	6.9
20°-30°	637.2	11.2
30°-40°	777.3	13.7
40°-50°	707.1	12.4
50°-60°	563.2	9.9
60°-70°	392.3	6.9
70°-80°	209.2	3.7
80°-90°	54.2	1.0
90°-100°	176.6	3.1
100°-110°	379.6	6.7
110°-120°	356.2	6.3
120°-130°	288.7	5.1
130°-140°	231.7	4.1
140°-150°	174.8	3.1
150°-160°	123.1	2.2
160°-170°	72.5	1.3
170°-180°	23.6	0.4
0°-30°	1161.5	20.4
0°-40°	1938.8	34.1
0°-60°	3209.2	56.4
0°-90°	3864.8	67.9
90°-120°	912.4	16.0
90°-150°	1607.6	28.2
90°-180°	1827.0	32.1
0°-180°	5691.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1580	1369	1198	1369	1580	159
15°	1972	1310	939	1310	1972	565
25°	2427	1199	793	1199	2427	1108
35°	1948	1042	679	1042	1948	1192
45°	918	823	564	823	918	735
55°	566	580	460	580	566	510
65°	348	357	357	357	348	345
75°	171	173	220	173	171	184
85°	38	34	55	34	38	44
90°	11	0	11	0	11	9
95°	116	16	116	16	116	164
105°	651	56	651	56	651	647
115°	725	99	725	99	725	708
125°	571	138	571	138	571	517
135°	474	161	474	161	474	368
145°	374	188	374	188	374	238
155°	314	214	314	214	314	146
165°	275	234	275	234	275	79
175°	247	243	247	243	247	24
180°	244	244	244	244	244	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1448.2	1446.3	1444.5	1440.7	1443.6	1435.6	1431.9	1425.4	1417.5	1414.7	1411.4
5°	1579.5	1582.4	1585.4	1573.1	1574.3	1566.2	1547.6	1532.4	1520.3	1504.5	1493.5
7.5°	1737.6	1730.7	1730.2	1722.3	1708.7	1697.7	1678.2	1653.3	1629.3	1601.8	1579.2
10°	1816.6	1817.2	1812.0	1802.7	1788.1	1777.7	1752.1	1727.7	1698.1	1663.2	1638.2
12.5°	1876.1	1878.5	1872.0	1859.4	1852.3	1828.9	1808.9	1779.8	1744.6	1716.7	1678.7
15°	1972.4	1966.0	1961.4	1945.6	1933.5	1909.0	1877.1	1846.8	1808.4	1773.1	1737.6
17.5°	2065.1	2070.2	2061.5	2047.2	2009.3	1980.8	1937.9	1896.6	1848.8	1801.3	1758.9
20°	2147.9	2152.5	2139.2	2114.2	2068.8	2040.4	1984.0	1930.5	1875.3	1814.3	1767.8
22.5°	2251.1	2247.4	2229.3	2191.3	2152.1	2099.4	2038.4	1973.3	1904.1	1835.2	1773.4
25°	2426.8	2402.4	2391.3	2344.3	2292.6	2215.3	2131.6	2036.3	1950.3	1859.1	1780.0
27.5°	2524.2	2516.5	2504.2	2471.4	2417.1	2334.4	2235.8	2119.6	1998.3	1883.1	1779.7
30°	2504.6	2505.9	2507.0	2496.6	2461.7	2399.5	2301.3	2176.3	2032.2	1902.6	1782.9
32.5°	2331.8	2352.9	2373.1	2397.0	2406.8	2394.9	2333.4	2220.5	2072.2	1924.9	1781.1
35°	1947.9	1954.4	2020.0	2085.1	2173.4	2242.0	2287.9	2237.9	2113.0	1943.9	1778.8
37.5°	1518.9	1550.2	1595.7	1669.2	1796.7	1910.9	2057.7	2125.2	2084.9	1950.1	1774.8
40°	1294.8	1323.8	1353.5	1428.4	1535.9	1674.2	1841.0	1983.4	2016.5	1930.5	1760.8
42.5°	1121.8	1144.9	1177.8	1234.1	1324.0	1446.5	1605.8	1791.8	1906.3	1873.8	1731.6
45°	918.2	932.7	958.3	1003.1	1068.2	1164.0	1304.7	1508.0	1685.3	1744.0	1662.1
47.5°	785.9	785.8	805.7	836.6	883.6	965.0	1069.0	1228.4	1417.7	1557.8	1551.3
50°	712.5	709.6	725.2	752.0	789.2	843.3	942.6	1069.9	1251.7	1410.4	1454.6
52.5°	649.3	649.6	659.3	679.0	710.2	756.3	830.5	945.3	1100.7	1263.5	1346.7
55°	566.0	563.7	574.7	588.1	610.8	641.0	694.5	782.2	908.3	1068.7	1176.8
57.5°	489.7	496.2	500.6	509.9	528.7	549.0	594.0	658.4	758.5	896.1	1010.4
60°	445.1	451.5	455.0	464.3	479.4	496.9	531.8	584.0	668.3	786.9	900.2
62.5°	405.2	410.2	411.3	419.7	432.0	449.0	476.4	520.4	586.9	690.6	801.6
65°	347.5	347.5	349.8	358.5	364.4	379.4	400.4	432.4	485.9	566.6	661.3
67.5°	292.0	294.7	294.2	298.0	303.3	315.1	330.1	356.5	396.1	455.0	530.8
70°	255.7	258.0	257.4	260.4	266.1	273.7	285.9	310.9	339.4	389.9	455.0
72.5°	223.2	224.1	222.6	226.4	229.9	236.5	250.1	263.5	290.1	332.8	386.2
75°	170.8	172.0	173.1	175.5	179.0	182.4	189.4	202.9	220.2	252.2	286.5
77.5°	128.1	125.9	128.6	128.3	130.3	132.9	139.1	146.2	160.5	180.7	207.2
80°	96.4	97.0	97.0	97.6	100.6	102.3	107.5	112.7	123.8	138.9	157.5
82.5°	70.4	72.0	71.0	72.1	74.5	75.8	78.7	83.0	89.4	101.3	114.7
85°	38.3	35.5	36.6	37.8	37.8	38.3	40.6	42.4	45.9	50.5	55.8
87.5°	13.4	14.4	14.7	14.7	15.2	15.0	16.7	16.6	17.9	19.2	20.9
90°	11.3	11.3	10.8	10.8	10.8	9.8	9.3	8.9	8.4	7.8	6.9
92.5°	31.3	32.1	32.8	34.0	40.3	47.5	63.2	87.0	128.2	158.3	160.9
95°	115.5	123.3	127.2	142.0	176.8	218.1	278.4	353.1	425.9	435.1	355.1
97.5°	279.0	285.2	299.5	327.0	357.3	414.7	473.6	525.9	538.8	464.7	317.1
100°	383.1	391.0	409.1	444.4	478.4	529.4	580.1	604.1	566.3	443.5	282.9
102.5°	499.4	505.3	525.0	550.2	586.4	621.0	645.2	630.4	549.7	406.1	256.9
105°	650.7	656.7	666.5	682.7	698.4	703.8	682.2	614.9	497.1	356.1	231.8
107.5°	731.1	735.0	738.3	738.4	730.4	704.8	649.3	559.5	443.2	321.6	221.2
110°	757.9	757.9	754.4	745.0	723.0	681.2	612.0	518.7	412.6	305.5	218.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	754.7	751.1	742.6	726.6	694.3	645.1	575.1	486.5	389.8	296.1	218.1
115°	725.0	718.5	704.8	681.2	642.9	589.4	522.1	445.9	364.9	285.9	219.6
117.5°	672.8	668.8	655.2	630.9	592.5	543.4	485.4	419.8	350.1	280.9	222.7
120°	638.9	635.1	621.8	598.2	561.9	518.7	464.6	405.7	341.8	278.4	225.9
122.5°	609.1	605.5	592.3	570.7	538.3	497.8	449.7	395.1	334.8	276.6	228.7
125°	571.2	566.3	555.5	535.4	507.8	472.5	429.7	379.6	325.1	274.1	233.3
127.5°	538.8	536.6	526.4	508.6	483.7	450.6	410.7	363.9	316.3	272.9	238.5
130°	521.1	518.1	508.3	492.1	467.5	435.7	397.4	354.1	310.4	272.1	241.7
132.5°	503.4	500.1	491.0	474.8	450.3	419.6	384.8	344.3	305.7	272.1	245.2
135°	474.4	471.5	462.6	446.4	424.8	396.8	365.4	331.5	300.1	272.1	249.9
137.5°	443.5	440.2	432.1	417.3	398.0	374.3	348.1	320.7	295.1	272.7	254.4
140°	421.9	419.4	412.1	399.3	381.2	360.5	337.9	314.8	292.7	273.1	256.4
142.5°	401.8	399.8	392.8	382.0	366.6	348.7	329.2	309.7	290.8	273.5	257.5
145°	374.3	372.3	366.9	358.5	346.7	333.5	318.2	303.1	287.8	273.1	258.8
147.5°	350.9	350.0	346.8	340.2	330.8	320.8	309.1	296.8	284.7	271.8	259.3
150°	337.9	337.4	335.4	329.6	322.2	313.3	304.0	293.2	282.4	270.6	259.3
152.5°	327.7	327.2	325.2	320.6	314.4	307.5	298.9	289.3	279.7	269.1	258.9
155°	313.8	313.3	311.9	308.4	303.5	298.1	291.3	283.4	275.0	266.2	257.9
157.5°	301.4	301.5	300.1	297.3	293.5	289.3	284.0	277.5	270.7	263.2	256.6
160°	293.2	293.7	292.7	290.2	286.8	283.4	278.4	273.5	267.2	261.3	255.4
162.5°	285.8	285.9	285.7	283.6	280.9	277.8	273.8	269.2	264.1	258.9	254.3
165°	275.0	275.0	275.0	274.1	272.1	269.7	266.7	263.2	259.3	255.4	252.4
167.5°	265.2	265.3	265.7	264.8	263.8	262.1	259.8	257.5	254.7	251.9	249.7
170°	259.3	259.8	259.8	259.3	258.3	257.4	255.9	254.4	251.9	249.9	248.5
172.5°	253.8	254.3	255.1	254.3	254.0	253.4	252.4	250.9	249.2	247.6	246.9
175°	247.0	247.5	248.5	248.1	248.1	248.1	247.0	247.0	245.6	245.0	245.0
177.5°	243.6	243.6	244.8	244.4	244.8	244.8	244.8	244.4	244.0	243.6	243.6
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1408.7	1405.4	1401.7	1395.2	1387.2	1383.1	1376.6	1372.4	1364.0	1357.0	1349.6
5°	1480.1	1465.1	1451.1	1433.0	1413.3	1400.5	1385.4	1368.6	1351.2	1333.1	1313.4
7.5°	1554.2	1527.4	1498.4	1467.1	1436.6	1408.4	1381.6	1355.2	1330.6	1300.8	1275.6
10°	1604.0	1570.2	1534.2	1491.8	1450.5	1414.5	1377.9	1345.9	1313.4	1278.5	1247.7
12.5°	1653.6	1608.8	1557.9	1511.3	1461.6	1418.2	1375.1	1334.3	1293.4	1254.8	1218.8
15°	1688.8	1649.2	1602.1	1535.9	1480.1	1420.3	1363.3	1310.4	1261.0	1218.1	1172.8
17.5°	1711.9	1661.0	1610.4	1546.9	1473.8	1406.8	1342.3	1281.8	1226.1	1171.6	1127.8
20°	1716.1	1663.8	1610.9	1548.7	1473.8	1397.1	1332.6	1259.9	1200.1	1143.7	1090.2
22.5°	1714.7	1655.4	1597.8	1533.9	1460.8	1390.1	1312.1	1238.0	1173.1	1117.7	1061.9
25°	1701.6	1638.2	1566.2	1501.7	1429.6	1354.6	1275.6	1198.9	1132.6	1069.3	1014.1
27.5°	1690.7	1608.4	1526.9	1451.6	1382.1	1313.4	1237.7	1159.2	1085.6	1021.5	969.5
30°	1677.1	1587.1	1495.2	1416.8	1345.3	1278.5	1207.0	1130.3	1053.6	990.8	935.0
32.5°	1665.1	1560.1	1463.2	1377.8	1302.1	1237.1	1171.2	1098.2	1022.9	959.2	903.4
35°	1641.7	1520.3	1409.3	1312.8	1232.0	1165.2	1110.0	1042.0	972.8	911.2	857.7
37.5°	1612.1	1467.9	1348.8	1247.7	1159.2	1088.7	1037.3	985.2	918.8	859.4	811.1
40°	1588.8	1430.7	1304.7	1201.2	1109.4	1036.1	988.5	939.1	883.9	828.7	777.6
42.5°	1559.5	1397.3	1260.0	1148.7	1057.7	986.4	936.4	894.5	845.8	794.3	746.8
45°	1505.7	1336.6	1187.8	1068.2	976.3	905.9	854.3	822.9	786.3	737.4	697.3
47.5°	1426.6	1263.7	1109.8	986.3	891.6	826.4	777.9	747.8	722.0	685.7	649.4
50°	1356.3	1209.4	1053.6	931.0	836.3	770.6	725.8	698.5	676.4	648.5	617.8
52.5°	1277.8	1141.0	998.2	877.0	783.3	718.5	674.7	650.7	632.2	612.3	581.9
55°	1153.0	1036.7	904.2	789.2	702.6	639.2	600.9	580.0	564.9	549.7	531.2
57.5°	1015.5	924.5	807.2	702.0	622.2	564.6	528.8	508.5	496.7	489.0	478.0
60°	918.8	840.9	739.8	643.9	566.0	514.9	480.0	464.3	454.4	448.1	439.9
62.5°	829.1	765.1	671.4	583.9	515.8	467.4	436.4	421.1	411.6	408.5	401.8
65°	696.8	647.4	570.1	497.5	439.4	398.0	372.0	357.4	351.5	348.1	348.7
67.5°	566.5	536.4	474.3	412.3	366.0	331.4	310.5	299.3	296.4	291.7	291.6
70°	487.0	464.3	412.0	358.0	316.7	290.0	271.4	259.8	256.8	254.5	254.0
72.5°	416.8	396.9	351.5	308.2	271.1	247.7	232.3	225.3	220.6	219.2	219.1
75°	313.2	302.2	266.1	231.9	206.3	190.0	179.6	173.1	169.7	169.1	169.7
77.5°	222.7	213.0	190.1	165.8	149.7	137.4	128.5	126.3	122.3	122.5	121.9
80°	167.4	161.0	146.5	127.3	113.9	103.4	98.8	94.7	93.6	91.8	93.6
82.5°	121.3	114.5	104.6	92.4	81.4	75.1	70.4	69.1	68.4	67.7	68.0
85°	59.8	60.4	54.6	45.3	40.6	37.2	34.3	34.3	33.7	33.1	33.7
87.5°	21.7	20.6	18.7	17.0	14.6	12.9	12.3	12.7	11.4	11.1	11.7
90°	6.4	5.4	4.9	4.0	2.9	2.0	0.9	0.5	0.9	2.0	2.9
92.5°	112.1	67.1	40.3	25.9	17.5	11.4	7.2	6.0	7.2	11.4	17.5
95°	219.6	111.5	59.0	36.9	26.0	20.7	16.7	16.2	16.7	20.7	26.0
97.5°	175.2	96.1	61.3	45.4	35.6	30.2	27.5	26.9	27.5	30.2	35.6
100°	159.1	95.3	66.8	52.1	42.7	37.4	35.4	34.4	35.4	37.4	42.7
102.5°	152.5	98.8	73.4	59.2	50.6	44.8	43.2	42.6	43.2	44.8	50.6
105°	149.8	106.1	84.5	70.7	62.9	57.9	55.5	55.5	55.5	57.9	62.9
107.5°	154.3	116.9	96.0	83.6	75.4	71.4	69.1	68.1	69.1	71.4	75.4
110°	158.6	124.8	104.6	91.9	84.5	80.1	78.1	77.1	78.1	80.1	84.5





TEST NUMBER: P333261-935

CATALOG NUMBER: S125DIP-S1090D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	164.1	132.2	112.9	100.5	93.2	88.7	87.1	86.2	87.1	88.7	93.2
115°	172.4	143.9	125.7	113.5	106.1	101.7	100.2	99.2	100.2	101.7	106.1
117.5°	181.8	155.9	138.7	126.8	118.5	114.1	112.4	111.0	112.4	114.1	118.5
120°	188.1	164.5	147.3	135.1	126.7	122.3	120.4	118.8	120.4	122.3	126.7
122.5°	195.2	172.8	155.6	143.4	134.1	129.8	128.2	127.1	128.2	129.8	134.1
125°	204.8	183.7	167.5	154.7	145.3	140.9	138.5	137.5	138.5	140.9	145.3
127.5°	213.6	194.2	178.6	165.8	155.9	150.3	147.1	145.7	147.1	150.3	155.9
130°	219.6	200.9	185.6	172.9	162.6	156.2	152.2	150.8	152.2	156.2	162.6
132.5°	224.6	207.2	191.9	179.2	168.5	161.3	156.6	154.7	156.6	161.3	168.5
135°	231.8	215.6	200.4	187.1	176.8	168.9	163.1	161.1	163.1	168.9	176.8
137.5°	237.1	221.6	207.8	194.1	184.0	176.2	170.7	169.2	170.7	176.2	184.0
140°	240.6	225.9	211.7	198.5	189.1	181.2	175.3	173.8	175.3	181.2	189.1
142.5°	242.6	228.7	215.2	202.8	193.8	186.0	180.5	179.3	180.5	186.0	193.8
145°	245.6	233.3	220.5	209.2	200.4	193.5	188.6	187.6	188.6	193.5	200.4
147.5°	247.4	236.3	225.1	215.1	207.4	201.0	196.8	196.2	196.8	201.0	207.4
150°	248.5	238.2	227.4	219.0	212.2	205.8	202.3	201.4	202.3	205.8	212.2
152.5°	249.3	240.1	230.1	222.6	216.1	210.5	207.4	206.9	207.4	210.5	216.1
155°	249.9	242.1	233.8	226.9	222.0	217.1	214.1	214.1	214.1	217.1	222.0
157.5°	250.5	243.8	236.6	231.4	227.1	222.9	220.5	220.6	220.5	222.9	227.1
160°	250.5	244.6	238.2	233.8	229.9	226.4	224.5	225.0	224.5	226.4	229.9
162.5°	250.1	245.4	239.8	236.2	233.0	230.0	228.0	228.5	228.0	230.0	233.0
165°	249.5	245.6	241.7	238.7	236.7	234.3	232.8	233.8	232.8	234.3	236.7
167.5°	248.3	245.6	242.3	240.5	239.1	237.7	236.9	237.3	236.9	237.7	239.1
170°	247.5	245.6	243.1	241.7	240.6	239.7	239.2	239.7	239.2	239.7	240.6
172.5°	246.8	245.2	243.1	242.5	241.9	240.8	240.4	241.3	240.4	240.8	241.9
175°	245.6	244.6	243.1	243.1	243.1	242.6	242.1	243.1	242.1	242.6	243.1
177.5°	244.4	244.0	243.2	243.2	243.6	243.2	243.2	244.0	243.2	243.2	243.6
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



TEST NUMBER: P333261-935

CATALOG NUMBER: S125DIP-S1090D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1345.4	1340.3	1336.1	1326.8	1321.7	1314.7	1309.2	1315.2	1308.7	1311.5	1307.3
5°	1303.5	1287.2	1275.6	1258.7	1244.2	1230.8	1221.0	1219.2	1214.5	1212.2	1205.2
7.5°	1253.0	1232.7	1212.7	1190.6	1172.0	1153.1	1141.0	1131.0	1124.4	1115.7	1109.7
10°	1223.3	1195.9	1172.8	1146.0	1122.7	1102.4	1086.2	1078.0	1070.5	1059.4	1055.3
12.5°	1186.5	1158.3	1130.0	1101.4	1079.0	1056.4	1042.4	1030.1	1024.8	1012.4	1011.2
15°	1142.5	1100.1	1072.2	1043.1	1012.4	993.8	982.1	968.7	962.9	954.2	947.8
17.5°	1089.9	1052.1	1017.2	987.1	960.7	945.0	930.7	921.4	911.5	905.8	895.3
20°	1051.9	1015.8	980.9	949.0	928.7	910.6	899.0	890.3	879.9	876.9	866.5
22.5°	1019.8	980.0	946.6	919.7	897.5	877.2	864.6	858.7	851.4	842.5	840.4
25°	967.6	926.3	897.9	871.2	851.4	832.8	824.1	816.5	809.5	803.1	800.8
27.5°	922.5	885.6	851.8	827.7	810.5	793.5	785.8	776.6	771.5	766.4	760.1
30°	890.9	853.1	823.5	800.2	781.6	766.5	758.4	752.0	747.3	742.7	739.2
32.5°	858.3	823.4	794.6	771.9	753.3	741.8	734.7	730.1	725.0	719.5	715.1
35°	815.4	777.0	749.1	729.4	714.8	706.1	697.9	693.9	688.0	688.0	683.4
37.5°	766.9	733.7	709.1	691.1	678.0	670.3	661.4	658.7	655.0	652.5	650.8
40°	738.0	707.2	684.0	666.0	652.0	645.7	638.7	634.0	631.7	628.8	627.6
42.5°	708.3	678.9	656.6	640.0	627.8	622.4	615.9	612.6	608.0	604.2	603.5
45°	663.1	634.6	614.2	600.9	590.4	584.0	580.0	573.0	570.7	566.0	565.4
47.5°	620.2	592.9	572.9	562.0	552.8	547.5	541.1	534.2	531.5	529.2	528.9
50°	588.1	563.1	544.5	534.1	525.4	517.8	511.4	506.8	505.0	505.0	506.2
52.5°	555.6	534.3	518.5	505.7	497.5	489.4	483.5	480.7	478.0	480.9	482.9
55°	507.9	486.4	474.8	462.6	454.4	445.1	442.2	441.1	439.4	444.0	446.3
57.5°	457.4	442.4	428.8	416.6	409.3	404.0	400.0	399.3	402.6	404.8	412.3
60°	425.4	407.9	395.7	386.4	377.7	374.3	373.1	372.0	374.3	380.6	390.5
62.5°	390.0	375.9	362.7	355.8	349.4	343.5	343.4	344.1	348.7	356.0	365.8
65°	338.2	326.0	317.3	309.2	303.9	300.4	301.6	303.9	309.2	319.0	330.1
67.5°	285.6	277.2	269.4	262.8	257.8	257.8	259.0	262.4	268.6	280.0	290.1
70°	251.7	242.4	235.9	233.1	228.9	226.6	230.1	235.9	241.2	251.7	260.4
72.5°	217.7	209.8	204.8	202.9	201.0	199.2	200.4	206.6	213.7	224.2	234.3
75°	167.4	164.5	161.0	158.7	156.9	158.1	159.2	165.1	170.8	181.9	193.6
77.5°	122.2	119.2	117.0	116.5	115.5	116.1	119.3	123.6	129.3	137.4	146.2
80°	92.4	91.3	90.1	89.5	89.5	90.1	94.7	97.6	102.9	110.4	117.4
82.5°	67.3	66.6	66.4	66.2	66.7	66.8	69.7	73.4	77.7	83.4	89.5
85°	35.5	34.3	36.0	36.6	35.5	37.2	38.3	40.6	42.4	45.3	48.2
87.5°	12.4	13.5	13.2	13.9	13.9	15.1	14.7	16.6	17.7	18.7	18.4
90°	4.0	4.9	5.4	6.4	6.9	7.8	8.4	8.9	9.3	9.8	10.8
92.5°	25.9	40.3	67.1	112.1	160.9	158.3	128.2	87.0	63.2	47.5	40.3
95°	36.9	59.0	111.5	219.6	355.1	435.1	425.9	353.1	278.4	218.1	176.8
97.5°	45.4	61.3	96.1	175.2	317.1	464.7	538.8	525.9	473.6	414.7	357.3
100°	52.1	66.8	95.3	159.1	282.9	443.5	566.3	604.1	580.1	529.4	478.4
102.5°	59.2	73.4	98.8	152.5	256.9	406.1	549.7	630.4	645.2	621.0	586.4
105°	70.7	84.5	106.1	149.8	231.8	356.1	497.1	614.9	682.2	703.8	698.4
107.5°	83.6	96.0	116.9	154.3	221.2	321.6	443.2	559.5	649.3	704.8	730.4
110°	91.9	104.6	124.8	158.6	218.1	305.5	412.6	518.7	612.0	681.2	723.0



TEST NUMBER: P333261-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	100.5	112.9	132.2	164.1	218.1	296.1	389.8	486.5	575.1	645.1	694.3
115°	113.5	125.7	143.9	172.4	219.6	285.9	364.9	445.9	522.1	589.4	642.9
117.5°	126.8	138.7	155.9	181.8	222.7	280.9	350.1	419.8	485.4	543.4	592.5
120°	135.1	147.3	164.5	188.1	225.9	278.4	341.8	405.7	464.6	518.7	561.9
122.5°	143.4	155.6	172.8	195.2	228.7	276.6	334.8	395.1	449.7	497.8	538.3
125°	154.7	167.5	183.7	204.8	233.3	274.1	325.1	379.6	429.7	472.5	507.8
127.5°	165.8	178.6	194.2	213.6	238.5	272.9	316.3	363.9	410.7	450.6	483.7
130°	172.9	185.6	200.9	219.6	241.7	272.1	310.4	354.1	397.4	435.7	467.5
132.5°	179.2	191.9	207.2	224.6	245.2	272.1	305.7	344.3	384.8	419.6	450.3
135°	187.1	200.4	215.6	231.8	249.9	272.1	300.1	331.5	365.4	396.8	424.8
137.5°	194.1	207.8	221.6	237.1	254.4	272.7	295.1	320.7	348.1	374.3	398.0
140°	198.5	211.7	225.9	240.6	256.4	273.1	292.7	314.8	337.9	360.5	381.2
142.5°	202.8	215.2	228.7	242.6	257.5	273.5	290.8	309.7	329.2	348.7	366.6
145°	209.2	220.5	233.3	245.6	258.8	273.1	287.8	303.1	318.2	333.5	346.7
147.5°	215.1	225.1	236.3	247.4	259.3	271.8	284.7	296.8	309.1	320.8	330.8
150°	219.0	227.4	238.2	248.5	259.3	270.6	282.4	293.2	304.0	313.3	322.2
152.5°	222.6	230.1	240.1	249.3	258.9	269.1	279.7	289.3	298.9	307.5	314.4
155°	226.9	233.8	242.1	249.9	257.9	266.2	275.0	283.4	291.3	298.1	303.5
157.5°	231.4	236.6	243.8	250.5	256.6	263.2	270.7	277.5	284.0	289.3	293.5
160°	233.8	238.2	244.6	250.5	255.4	261.3	267.2	273.5	278.4	283.4	286.8
162.5°	236.2	239.8	245.4	250.1	254.3	258.9	264.1	269.2	273.8	277.8	280.9
165°	238.7	241.7	245.6	249.5	252.4	255.4	259.3	263.2	266.7	269.7	272.1
167.5°	240.5	242.3	245.6	248.3	249.7	251.9	254.7	257.5	259.8	262.1	263.8
170°	241.7	243.1	245.6	247.5	248.5	249.9	251.9	254.4	255.9	257.4	258.3
172.5°	242.5	243.1	245.2	246.8	246.9	247.6	249.2	250.9	252.4	253.4	254.0
175°	243.1	243.1	244.6	245.6	245.0	245.0	245.6	247.0	247.0	248.1	248.1
177.5°	243.2	243.2	244.0	244.4	243.6	243.6	244.0	244.4	244.8	244.8	244.8
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



TEST NUMBER: P333261-935

CATALOG NUMBER: S125DIP-S1090D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1304.5	1307.8	1305.0	1308.7	1305.0	1307.8	1304.5	1307.3	1311.5	1308.7	1315.2
5°	1202.4	1197.1	1200.6	1198.3	1200.6	1197.1	1202.4	1205.2	1212.2	1214.5	1219.2
7.5°	1108.0	1103.0	1097.3	1094.6	1097.3	1103.0	1108.0	1109.7	1115.7	1124.4	1131.0
10°	1049.0	1042.6	1042.0	1037.9	1042.0	1042.6	1049.0	1055.3	1059.4	1070.5	1078.0
12.5°	1005.7	999.8	993.2	991.4	993.2	999.8	1005.7	1011.2	1012.4	1024.8	1030.1
15°	944.3	939.7	935.6	939.1	935.6	939.7	944.3	947.8	954.2	962.9	968.7
17.5°	893.3	889.5	888.8	884.5	888.8	889.5	893.3	895.3	905.8	911.5	921.4
20°	861.3	858.3	859.5	852.0	859.5	858.3	861.3	866.5	876.9	879.9	890.3
22.5°	835.7	830.0	829.3	827.8	829.3	830.0	835.7	840.4	842.5	851.4	858.7
25°	795.6	792.6	789.8	792.6	789.8	792.6	795.6	800.8	803.1	809.5	816.5
27.5°	760.6	757.1	756.3	756.6	756.3	757.1	760.6	760.1	766.4	771.5	776.6
30°	739.2	733.4	734.0	733.4	734.0	733.4	739.2	739.2	742.7	747.3	752.0
32.5°	715.9	712.0	711.2	710.2	711.2	712.0	715.9	715.1	719.5	725.0	730.1
35°	681.7	681.7	678.7	678.7	678.7	681.7	681.7	683.4	688.0	688.0	693.9
37.5°	649.5	648.8	647.1	647.4	647.1	648.8	649.5	650.8	652.5	655.0	658.7
40°	625.3	624.7	622.9	619.5	622.9	624.7	625.3	627.6	628.8	631.7	634.0
42.5°	602.0	600.1	599.3	598.1	599.3	600.1	602.0	603.5	604.2	608.0	612.6
45°	565.4	565.4	564.3	563.7	564.3	565.4	565.4	565.4	566.0	570.7	573.0
47.5°	529.9	530.9	533.1	532.8	533.1	530.9	529.9	528.9	529.2	531.5	534.2
50°	508.5	509.1	510.8	511.4	510.8	509.1	508.5	506.2	505.0	505.0	506.8
52.5°	484.7	488.2	490.3	490.0	490.3	488.2	484.7	482.9	480.9	478.0	480.7
55°	451.5	455.6	459.7	460.3	459.7	455.6	451.5	446.3	444.0	439.4	441.1
57.5°	418.6	424.3	428.6	430.1	428.6	424.3	418.6	412.3	404.8	402.6	399.3
60°	396.3	403.9	409.1	411.5	409.1	403.9	396.3	390.5	380.6	374.3	372.0
62.5°	375.0	383.4	388.7	389.1	388.7	383.4	375.0	365.8	356.0	348.7	344.1
65°	339.9	348.7	353.4	356.8	353.4	348.7	339.9	330.1	319.0	309.2	303.9
67.5°	302.3	311.0	316.2	318.9	316.2	311.0	302.3	290.1	280.0	268.6	262.4
70°	274.9	283.6	290.6	292.9	290.6	283.6	274.9	260.4	251.7	241.2	235.9
72.5°	247.9	255.7	261.3	264.1	261.3	255.7	247.9	234.3	224.2	213.7	206.6
75°	201.0	211.5	216.8	219.6	216.8	211.5	201.0	193.6	181.9	170.8	165.1
77.5°	155.1	164.5	167.7	169.2	167.7	164.5	155.1	146.2	137.4	129.3	123.6
80°	124.3	130.2	134.2	134.8	134.2	130.2	124.3	117.4	110.4	102.9	97.6
82.5°	95.6	100.4	101.7	103.2	101.7	100.4	95.6	89.5	83.4	77.7	73.4
85°	52.3	54.6	55.2	54.6	55.2	54.6	52.3	48.2	45.3	42.4	40.6
87.5°	19.4	18.9	19.0	19.9	19.0	18.9	19.4	18.4	18.7	17.7	16.6
90°	10.8	10.8	11.3	11.3	11.3	10.8	10.8	10.8	9.8	9.3	8.9
92.5°	34.0	32.8	32.1	31.3	32.1	32.8	34.0	40.3	47.5	63.2	87.0
95°	142.0	127.2	123.3	115.5	123.3	127.2	142.0	176.8	218.1	278.4	353.1
97.5°	327.0	299.5	285.2	279.0	285.2	299.5	327.0	357.3	414.7	473.6	525.9
100°	444.4	409.1	391.0	383.1	391.0	409.1	444.4	478.4	529.4	580.1	604.1
102.5°	550.2	525.0	505.3	499.4	505.3	525.0	550.2	586.4	621.0	645.2	630.4
105°	682.7	666.5	656.7	650.7	656.7	666.5	682.7	698.4	703.8	682.2	614.9
107.5°	738.4	738.3	735.0	731.1	735.0	738.3	738.4	730.4	704.8	649.3	559.5
110°	745.0	754.4	757.9	757.9	757.9	754.4	745.0	723.0	681.2	612.0	518.7



TEST NUMBER: P333261-935

CATALOG NUMBER: S125DIP-S1090D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	726.6	742.6	751.1	754.7	751.1	742.6	726.6	694.3	645.1	575.1	486.5
115°	681.2	704.8	718.5	725.0	718.5	704.8	681.2	642.9	589.4	522.1	445.9
117.5°	630.9	655.2	668.8	672.8	668.8	655.2	630.9	592.5	543.4	485.4	419.8
120°	598.2	621.8	635.1	638.9	635.1	621.8	598.2	561.9	518.7	464.6	405.7
122.5°	570.7	592.3	605.5	609.1	605.5	592.3	570.7	538.3	497.8	449.7	395.1
125°	535.4	555.5	566.3	571.2	566.3	555.5	535.4	507.8	472.5	429.7	379.6
127.5°	508.6	526.4	536.6	538.8	536.6	526.4	508.6	483.7	450.6	410.7	363.9
130°	492.1	508.3	518.1	521.1	518.1	508.3	492.1	467.5	435.7	397.4	354.1
132.5°	474.8	491.0	500.1	503.4	500.1	491.0	474.8	450.3	419.6	384.8	344.3
135°	446.4	462.6	471.5	474.4	471.5	462.6	446.4	424.8	396.8	365.4	331.5
137.5°	417.3	432.1	440.2	443.5	440.2	432.1	417.3	398.0	374.3	348.1	320.7
140°	399.3	412.1	419.4	421.9	419.4	412.1	399.3	381.2	360.5	337.9	314.8
142.5°	382.0	392.8	399.8	401.8	399.8	392.8	382.0	366.6	348.7	329.2	309.7
145°	358.5	366.9	372.3	374.3	372.3	366.9	358.5	346.7	333.5	318.2	303.1
147.5°	340.2	346.8	350.0	350.9	350.0	346.8	340.2	330.8	320.8	309.1	296.8
150°	329.6	335.4	337.4	337.9	337.4	335.4	329.6	322.2	313.3	304.0	293.2
152.5°	320.6	325.2	327.2	327.7	327.2	325.2	320.6	314.4	307.5	298.9	289.3
155°	308.4	311.9	313.3	313.8	313.3	311.9	308.4	303.5	298.1	291.3	283.4
157.5°	297.3	300.1	301.5	301.4	301.5	300.1	297.3	293.5	289.3	284.0	277.5
160°	290.2	292.7	293.7	293.2	293.7	292.7	290.2	286.8	283.4	278.4	273.5
162.5°	283.6	285.7	285.9	285.8	285.9	285.7	283.6	280.9	277.8	273.8	269.2
165°	274.1	275.0	275.0	275.0	275.0	275.0	274.1	272.1	269.7	266.7	263.2
167.5°	264.8	265.7	265.3	265.2	265.3	265.7	264.8	263.8	262.1	259.8	257.5
170°	259.3	259.8	259.8	259.3	259.8	259.8	259.3	258.3	257.4	255.9	254.4
172.5°	254.3	255.1	254.3	253.8	254.3	255.1	254.3	254.0	253.4	252.4	250.9
175°	248.1	248.5	247.5	247.0	247.5	248.5	248.1	248.1	248.1	247.0	247.0
177.5°	244.4	244.8	243.6	243.6	243.6	244.8	244.4	244.8	244.8	244.8	244.4
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



TEST NUMBER: P333261-935

CATALOG NUMBER: S125DIP-S1090D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1309.2	1314.7	1321.7	1326.8	1336.1	1340.3	1345.4	1349.6	1357.0	1364.0	1372.4
5°	1221.0	1230.8	1244.2	1258.7	1275.6	1287.2	1303.5	1313.4	1333.1	1351.2	1368.6
7.5°	1141.0	1153.1	1172.0	1190.6	1212.7	1232.7	1253.0	1275.6	1300.8	1330.6	1355.2
10°	1086.2	1102.4	1122.7	1146.0	1172.8	1195.9	1223.3	1247.7	1278.5	1313.4	1345.9
12.5°	1042.4	1056.4	1079.0	1101.4	1130.0	1158.3	1186.5	1218.8	1254.8	1293.4	1334.3
15°	982.1	993.8	1012.4	1043.1	1072.2	1100.1	1142.5	1172.8	1218.1	1261.0	1310.4
17.5°	930.7	945.0	960.7	987.1	1017.2	1052.1	1089.9	1127.8	1171.6	1226.1	1281.8
20°	899.0	910.6	928.7	949.0	980.9	1015.8	1051.9	1090.2	1143.7	1200.1	1259.9
22.5°	864.6	877.2	897.5	919.7	946.6	980.0	1019.8	1061.9	1117.7	1173.1	1238.0
25°	824.1	832.8	851.4	871.2	897.9	926.3	967.6	1014.1	1069.3	1132.6	1198.9
27.5°	785.8	793.5	810.5	827.7	851.8	885.6	922.5	969.5	1021.5	1085.6	1159.2
30°	758.4	766.5	781.6	800.2	823.5	853.1	890.9	935.0	990.8	1053.6	1130.3
32.5°	734.7	741.8	753.3	771.9	794.6	823.4	858.3	903.4	959.2	1022.9	1098.2
35°	697.9	706.1	714.8	729.4	749.1	777.0	815.4	857.7	911.2	972.8	1042.0
37.5°	661.4	670.3	678.0	691.1	709.1	733.7	766.9	811.1	859.4	918.8	985.2
40°	638.7	645.7	652.0	666.0	684.0	707.2	738.0	777.6	828.7	883.9	939.1
42.5°	615.9	622.4	627.8	640.0	656.6	678.9	708.3	746.8	794.3	845.8	894.5
45°	580.0	584.0	590.4	600.9	614.2	634.6	663.1	697.3	737.4	786.3	822.9
47.5°	541.1	547.5	552.8	562.0	572.9	592.9	620.2	649.4	685.7	722.0	747.8
50°	511.4	517.8	525.4	534.1	544.5	563.1	588.1	617.8	648.5	676.4	698.5
52.5°	483.5	489.4	497.5	505.7	518.5	534.3	555.6	581.9	612.3	632.2	650.7
55°	442.2	445.1	454.4	462.6	474.8	486.4	507.9	531.2	549.7	564.9	580.0
57.5°	400.0	404.0	409.3	416.6	428.8	442.4	457.4	478.0	489.0	496.7	508.5
60°	373.1	374.3	377.7	386.4	395.7	407.9	425.4	439.9	448.1	454.4	464.3
62.5°	343.4	343.5	349.4	355.8	362.7	375.9	390.0	401.8	408.5	411.6	421.1
65°	301.6	300.4	303.9	309.2	317.3	326.0	338.2	348.7	348.1	351.5	357.4
67.5°	259.0	257.8	257.8	262.8	269.4	277.2	285.6	291.6	291.7	296.4	299.3
70°	230.1	226.6	228.9	233.1	235.9	242.4	251.7	254.0	254.5	256.8	259.8
72.5°	200.4	199.2	201.0	202.9	204.8	209.8	217.7	219.1	219.2	220.6	225.3
75°	159.2	158.1	156.9	158.7	161.0	164.5	167.4	169.7	169.1	169.7	173.1
77.5°	119.3	116.1	115.5	116.5	117.0	119.2	122.2	121.9	122.5	122.3	126.3
80°	94.7	90.1	89.5	89.5	90.1	91.3	92.4	93.6	91.8	93.6	94.7
82.5°	69.7	66.8	66.7	66.2	66.4	66.6	67.3	68.0	67.7	68.4	69.1
85°	38.3	37.2	35.5	36.6	36.0	34.3	35.5	33.7	33.1	33.7	34.3
87.5°	14.7	15.1	13.9	13.9	13.2	13.5	12.4	11.7	11.1	11.4	12.7
90°	8.4	7.8	6.9	6.4	5.4	4.9	4.0	2.9	2.0	0.9	0.5
92.5°	128.2	158.3	160.9	112.1	67.1	40.3	25.9	17.5	11.4	7.2	6.0
95°	425.9	435.1	355.1	219.6	111.5	59.0	36.9	26.0	20.7	16.7	16.2
97.5°	538.8	464.7	317.1	175.2	96.1	61.3	45.4	35.6	30.2	27.5	26.9
100°	566.3	443.5	282.9	159.1	95.3	66.8	52.1	42.7	37.4	35.4	34.4
102.5°	549.7	406.1	256.9	152.5	98.8	73.4	59.2	50.6	44.8	43.2	42.6
105°	497.1	356.1	231.8	149.8	106.1	84.5	70.7	62.9	57.9	55.5	55.5
107.5°	443.2	321.6	221.2	154.3	116.9	96.0	83.6	75.4	71.4	69.1	68.1
110°	412.6	305.5	218.1	158.6	124.8	104.6	91.9	84.5	80.1	78.1	77.1



TEST NUMBER: P333261-935

CATALOG NUMBER: S125DIP-S1090D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	389.8	296.1	218.1	164.1	132.2	112.9	100.5	93.2	88.7	87.1	86.2
115°	364.9	285.9	219.6	172.4	143.9	125.7	113.5	106.1	101.7	100.2	99.2
117.5°	350.1	280.9	222.7	181.8	155.9	138.7	126.8	118.5	114.1	112.4	111.0
120°	341.8	278.4	225.9	188.1	164.5	147.3	135.1	126.7	122.3	120.4	118.8
122.5°	334.8	276.6	228.7	195.2	172.8	155.6	143.4	134.1	129.8	128.2	127.1
125°	325.1	274.1	233.3	204.8	183.7	167.5	154.7	145.3	140.9	138.5	137.5
127.5°	316.3	272.9	238.5	213.6	194.2	178.6	165.8	155.9	150.3	147.1	145.7
130°	310.4	272.1	241.7	219.6	200.9	185.6	172.9	162.6	156.2	152.2	150.8
132.5°	305.7	272.1	245.2	224.6	207.2	191.9	179.2	168.5	161.3	156.6	154.7
135°	300.1	272.1	249.9	231.8	215.6	200.4	187.1	176.8	168.9	163.1	161.1
137.5°	295.1	272.7	254.4	237.1	221.6	207.8	194.1	184.0	176.2	170.7	169.2
140°	292.7	273.1	256.4	240.6	225.9	211.7	198.5	189.1	181.2	175.3	173.8
142.5°	290.8	273.5	257.5	242.6	228.7	215.2	202.8	193.8	186.0	180.5	179.3
145°	287.8	273.1	258.8	245.6	233.3	220.5	209.2	200.4	193.5	188.6	187.6
147.5°	284.7	271.8	259.3	247.4	236.3	225.1	215.1	207.4	201.0	196.8	196.2
150°	282.4	270.6	259.3	248.5	238.2	227.4	219.0	212.2	205.8	202.3	201.4
152.5°	279.7	269.1	258.9	249.3	240.1	230.1	222.6	216.1	210.5	207.4	206.9
155°	275.0	266.2	257.9	249.9	242.1	233.8	226.9	222.0	217.1	214.1	214.1
157.5°	270.7	263.2	256.6	250.5	243.8	236.6	231.4	227.1	222.9	220.5	220.6
160°	267.2	261.3	255.4	250.5	244.6	238.2	233.8	229.9	226.4	224.5	225.0
162.5°	264.1	258.9	254.3	250.1	245.4	239.8	236.2	233.0	230.0	228.0	228.5
165°	259.3	255.4	252.4	249.5	245.6	241.7	238.7	236.7	234.3	232.8	233.8
167.5°	254.7	251.9	249.7	248.3	245.6	242.3	240.5	239.1	237.7	236.9	237.3
170°	251.9	249.9	248.5	247.5	245.6	243.1	241.7	240.6	239.7	239.2	239.7
172.5°	249.2	247.6	246.9	246.8	245.2	243.1	242.5	241.9	240.8	240.4	241.3
175°	245.6	245.0	245.0	245.6	244.6	243.1	243.1	243.1	242.6	242.1	243.1
177.5°	244.0	243.6	243.6	244.4	244.0	243.2	243.2	243.6	243.2	243.2	244.0
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



TEST NUMBER: P333261-935

CATALOG NUMBER: S125DIP-S1090D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1376.6	1383.1	1387.2	1395.2	1401.7	1405.4	1408.7	1411.4	1414.7	1417.5	1425.4
5°	1385.4	1400.5	1413.3	1433.0	1451.1	1465.1	1480.1	1493.5	1504.5	1520.3	1532.4
7.5°	1381.6	1408.4	1436.6	1467.1	1498.4	1527.4	1554.2	1579.2	1601.8	1629.3	1653.3
10°	1377.9	1414.5	1450.5	1491.8	1534.2	1570.2	1604.0	1638.2	1663.2	1698.1	1727.7
12.5°	1375.1	1418.2	1461.6	1511.3	1557.9	1608.8	1653.6	1678.7	1716.7	1744.6	1779.8
15°	1363.3	1420.3	1480.1	1535.9	1602.1	1649.2	1688.8	1737.6	1773.1	1808.4	1846.8
17.5°	1342.3	1406.8	1473.8	1546.9	1610.4	1661.0	1711.9	1758.9	1801.3	1848.8	1896.6
20°	1332.6	1397.1	1473.8	1548.7	1610.9	1663.8	1716.1	1767.8	1814.3	1875.3	1930.5
22.5°	1312.1	1390.1	1460.8	1533.9	1597.8	1655.4	1714.7	1773.4	1835.2	1904.1	1973.3
25°	1275.6	1354.6	1429.6	1501.7	1566.2	1638.2	1701.6	1780.0	1859.1	1950.3	2036.3
27.5°	1237.7	1313.4	1382.1	1451.6	1526.9	1608.4	1690.7	1779.7	1883.1	1998.3	2119.6
30°	1207.0	1278.5	1345.3	1416.8	1495.2	1587.1	1677.1	1782.9	1902.6	2032.2	2176.3
32.5°	1171.2	1237.1	1302.1	1377.8	1463.2	1560.1	1665.1	1781.1	1924.9	2072.2	2220.5
35°	1110.0	1165.2	1232.0	1312.8	1409.3	1520.3	1641.7	1778.8	1943.9	2113.0	2237.9
37.5°	1037.3	1088.7	1159.2	1247.7	1348.8	1467.9	1612.1	1774.8	1950.1	2084.9	2125.2
40°	988.5	1036.1	1109.4	1201.2	1304.7	1430.7	1588.8	1760.8	1930.5	2016.5	1983.4
42.5°	936.4	986.4	1057.7	1148.7	1260.0	1397.3	1559.5	1731.6	1873.8	1906.3	1791.8
45°	854.3	905.9	976.3	1068.2	1187.8	1336.6	1505.7	1662.1	1744.0	1685.3	1508.0
47.5°	777.9	826.4	891.6	986.3	1109.8	1263.7	1426.6	1551.3	1557.8	1417.7	1228.4
50°	725.8	770.6	836.3	931.0	1053.6	1209.4	1356.3	1454.6	1410.4	1251.7	1069.9
52.5°	674.7	718.5	783.3	877.0	998.2	1141.0	1277.8	1346.7	1263.5	1100.7	945.3
55°	600.9	639.2	702.6	789.2	904.2	1036.7	1153.0	1176.8	1068.7	908.3	782.2
57.5°	528.8	564.6	622.2	702.0	807.2	924.5	1015.5	1010.4	896.1	758.5	658.4
60°	480.0	514.9	566.0	643.9	739.8	840.9	918.8	900.2	786.9	668.3	584.0
62.5°	436.4	467.4	515.8	583.9	671.4	765.1	829.1	801.6	690.6	586.9	520.4
65°	372.0	398.0	439.4	497.5	570.1	647.4	696.8	661.3	566.6	485.9	432.4
67.5°	310.5	331.4	366.0	412.3	474.3	536.4	566.5	530.8	455.0	396.1	356.5
70°	271.4	290.0	316.7	358.0	412.0	464.3	487.0	455.0	389.9	339.4	310.9
72.5°	232.3	247.7	271.1	308.2	351.5	396.9	416.8	386.2	332.8	290.1	263.5
75°	179.6	190.0	206.3	231.9	266.1	302.2	313.2	286.5	252.2	220.2	202.9
77.5°	128.5	137.4	149.7	165.8	190.1	213.0	222.7	207.2	180.7	160.5	146.2
80°	98.8	103.4	113.9	127.3	146.5	161.0	167.4	157.5	138.9	123.8	112.7
82.5°	70.4	75.1	81.4	92.4	104.6	114.5	121.3	114.7	101.3	89.4	83.0
85°	34.3	37.2	40.6	45.3	54.6	60.4	59.8	55.8	50.5	45.9	42.4
87.5°	12.3	12.9	14.6	17.0	18.7	20.6	21.7	20.9	19.2	17.9	16.6
90°	0.9	2.0	2.9	4.0	4.9	5.4	6.4	6.9	7.8	8.4	8.9
92.5°	7.2	11.4	17.5	25.9	40.3	67.1	112.1	160.9	158.3	128.2	87.0
95°	16.7	20.7	26.0	36.9	59.0	111.5	219.6	355.1	435.1	425.9	353.1
97.5°	27.5	30.2	35.6	45.4	61.3	96.1	175.2	317.1	464.7	538.8	525.9
100°	35.4	37.4	42.7	52.1	66.8	95.3	159.1	282.9	443.5	566.3	604.1
102.5°	43.2	44.8	50.6	59.2	73.4	98.8	152.5	256.9	406.1	549.7	630.4
105°	55.5	57.9	62.9	70.7	84.5	106.1	149.8	231.8	356.1	497.1	614.9
107.5°	69.1	71.4	75.4	83.6	96.0	116.9	154.3	221.2	321.6	443.2	559.5
110°	78.1	80.1	84.5	91.9	104.6	124.8	158.6	218.1	305.5	412.6	518.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	87.1	88.7	93.2	100.5	112.9	132.2	164.1	218.1	296.1	389.8	486.5
115°	100.2	101.7	106.1	113.5	125.7	143.9	172.4	219.6	285.9	364.9	445.9
117.5°	112.4	114.1	118.5	126.8	138.7	155.9	181.8	222.7	280.9	350.1	419.8
120°	120.4	122.3	126.7	135.1	147.3	164.5	188.1	225.9	278.4	341.8	405.7
122.5°	128.2	129.8	134.1	143.4	155.6	172.8	195.2	228.7	276.6	334.8	395.1
125°	138.5	140.9	145.3	154.7	167.5	183.7	204.8	233.3	274.1	325.1	379.6
127.5°	147.1	150.3	155.9	165.8	178.6	194.2	213.6	238.5	272.9	316.3	363.9
130°	152.2	156.2	162.6	172.9	185.6	200.9	219.6	241.7	272.1	310.4	354.1
132.5°	156.6	161.3	168.5	179.2	191.9	207.2	224.6	245.2	272.1	305.7	344.3
135°	163.1	168.9	176.8	187.1	200.4	215.6	231.8	249.9	272.1	300.1	331.5
137.5°	170.7	176.2	184.0	194.1	207.8	221.6	237.1	254.4	272.7	295.1	320.7
140°	175.3	181.2	189.1	198.5	211.7	225.9	240.6	256.4	273.1	292.7	314.8
142.5°	180.5	186.0	193.8	202.8	215.2	228.7	242.6	257.5	273.5	290.8	309.7
145°	188.6	193.5	200.4	209.2	220.5	233.3	245.6	258.8	273.1	287.8	303.1
147.5°	196.8	201.0	207.4	215.1	225.1	236.3	247.4	259.3	271.8	284.7	296.8
150°	202.3	205.8	212.2	219.0	227.4	238.2	248.5	259.3	270.6	282.4	293.2
152.5°	207.4	210.5	216.1	222.6	230.1	240.1	249.3	258.9	269.1	279.7	289.3
155°	214.1	217.1	222.0	226.9	233.8	242.1	249.9	257.9	266.2	275.0	283.4
157.5°	220.5	222.9	227.1	231.4	236.6	243.8	250.5	256.6	263.2	270.7	277.5
160°	224.5	226.4	229.9	233.8	238.2	244.6	250.5	255.4	261.3	267.2	273.5
162.5°	228.0	230.0	233.0	236.2	239.8	245.4	250.1	254.3	258.9	264.1	269.2
165°	232.8	234.3	236.7	238.7	241.7	245.6	249.5	252.4	255.4	259.3	263.2
167.5°	236.9	237.7	239.1	240.5	242.3	245.6	248.3	249.7	251.9	254.7	257.5
170°	239.2	239.7	240.6	241.7	243.1	245.6	247.5	248.5	249.9	251.9	254.4
172.5°	240.4	240.8	241.9	242.5	243.1	245.2	246.8	246.9	247.6	249.2	250.9
175°	242.1	242.6	243.1	243.1	243.1	244.6	245.6	245.0	245.0	245.6	247.0
177.5°	243.2	243.2	243.6	243.2	243.2	244.0	244.4	243.6	243.6	244.0	244.4
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1431.9	1435.6	1443.6	1440.7	1444.5	1446.3	1448.2
5°	1547.6	1566.2	1574.3	1573.1	1585.4	1582.4	1579.5
7.5°	1678.2	1697.7	1708.7	1722.3	1730.2	1730.7	1737.6
10°	1752.1	1777.7	1788.1	1802.7	1812.0	1817.2	1816.6
12.5°	1808.9	1828.9	1852.3	1859.4	1872.0	1878.5	1876.1
15°	1877.1	1909.0	1933.5	1945.6	1961.4	1966.0	1972.4
17.5°	1937.9	1980.8	2009.3	2047.2	2061.5	2070.2	2065.1
20°	1984.0	2040.4	2068.8	2114.2	2139.2	2152.5	2147.9
22.5°	2038.4	2099.4	2152.1	2191.3	2229.3	2247.4	2251.1
25°	2131.6	2215.3	2292.6	2344.3	2391.3	2402.4	2426.8
27.5°	2235.8	2334.4	2417.1	2471.4	2504.2	2516.5	2524.2
30°	2301.3	2399.5	2461.7	2496.6	2507.0	2505.9	2504.6
32.5°	2333.4	2394.9	2406.8	2397.0	2373.1	2352.9	2331.8
35°	2287.9	2242.0	2173.4	2085.1	2020.0	1954.4	1947.9
37.5°	2057.7	1910.9	1796.7	1669.2	1595.7	1550.2	1518.9
40°	1841.0	1674.2	1535.9	1428.4	1353.5	1323.8	1294.8
42.5°	1605.8	1446.5	1324.0	1234.1	1177.8	1144.9	1121.8
45°	1304.7	1164.0	1068.2	1003.1	958.3	932.7	918.2
47.5°	1069.0	965.0	883.6	836.6	805.7	785.8	785.9
50°	942.6	843.3	789.2	752.0	725.2	709.6	712.5
52.5°	830.5	756.3	710.2	679.0	659.3	649.6	649.3
55°	694.5	641.0	610.8	588.1	574.7	563.7	566.0
57.5°	594.0	549.0	528.7	509.9	500.6	496.2	489.7
60°	531.8	496.9	479.4	464.3	455.0	451.5	445.1
62.5°	476.4	449.0	432.0	419.7	411.3	410.2	405.2
65°	400.4	379.4	364.4	358.5	349.8	347.5	347.5
67.5°	330.1	315.1	303.3	298.0	294.2	294.7	292.0
70°	285.9	273.7	266.1	260.4	257.4	258.0	255.7
72.5°	250.1	236.5	229.9	226.4	222.6	224.1	223.2
75°	189.4	182.4	179.0	175.5	173.1	172.0	170.8
77.5°	139.1	132.9	130.3	128.3	128.6	125.9	128.1
80°	107.5	102.3	100.6	97.6	97.0	97.0	96.4
82.5°	78.7	75.8	74.5	72.1	71.0	72.0	70.4
85°	40.6	38.3	37.8	37.8	36.6	35.5	38.3
87.5°	16.7	15.0	15.2	14.7	14.7	14.4	13.4
90°	9.3	9.8	10.8	10.8	10.8	11.3	11.3
92.5°	63.2	47.5	40.3	34.0	32.8	32.1	31.3
95°	278.4	218.1	176.8	142.0	127.2	123.3	115.5
97.5°	473.6	414.7	357.3	327.0	299.5	285.2	279.0
100°	580.1	529.4	478.4	444.4	409.1	391.0	383.1
102.5°	645.2	621.0	586.4	550.2	525.0	505.3	499.4
105°	682.2	703.8	698.4	682.7	666.5	656.7	650.7
107.5°	649.3	704.8	730.4	738.4	738.3	735.0	731.1
110°	612.0	681.2	723.0	745.0	754.4	757.9	757.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	575.1	645.1	694.3	726.6	742.6	751.1	754.7
115°	522.1	589.4	642.9	681.2	704.8	718.5	725.0
117.5°	485.4	543.4	592.5	630.9	655.2	668.8	672.8
120°	464.6	518.7	561.9	598.2	621.8	635.1	638.9
122.5°	449.7	497.8	538.3	570.7	592.3	605.5	609.1
125°	429.7	472.5	507.8	535.4	555.5	566.3	571.2
127.5°	410.7	450.6	483.7	508.6	526.4	536.6	538.8
130°	397.4	435.7	467.5	492.1	508.3	518.1	521.1
132.5°	384.8	419.6	450.3	474.8	491.0	500.1	503.4
135°	365.4	396.8	424.8	446.4	462.6	471.5	474.4
137.5°	348.1	374.3	398.0	417.3	432.1	440.2	443.5
140°	337.9	360.5	381.2	399.3	412.1	419.4	421.9
142.5°	329.2	348.7	366.6	382.0	392.8	399.8	401.8
145°	318.2	333.5	346.7	358.5	366.9	372.3	374.3
147.5°	309.1	320.8	330.8	340.2	346.8	350.0	350.9
150°	304.0	313.3	322.2	329.6	335.4	337.4	337.9
152.5°	298.9	307.5	314.4	320.6	325.2	327.2	327.7
155°	291.3	298.1	303.5	308.4	311.9	313.3	313.8
157.5°	284.0	289.3	293.5	297.3	300.1	301.5	301.4
160°	278.4	283.4	286.8	290.2	292.7	293.7	293.2
162.5°	273.8	277.8	280.9	283.6	285.7	285.9	285.8
165°	266.7	269.7	272.1	274.1	275.0	275.0	275.0
167.5°	259.8	262.1	263.8	264.8	265.7	265.3	265.2
170°	255.9	257.4	258.3	259.3	259.8	259.8	259.3
172.5°	252.4	253.4	254.0	254.3	255.1	254.3	253.8
175°	247.0	248.1	248.1	248.1	248.5	247.5	247.0
177.5°	244.8	244.8	244.8	244.4	244.8	243.6	243.6
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6

(END OF REPORT)