

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: P333259-830

Luminaire Tested: **S125DIP-S1090D590U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333259-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S1090D590U830-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6458.6 lumens
Efficiency: N/A
Efficacy: 132.3 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

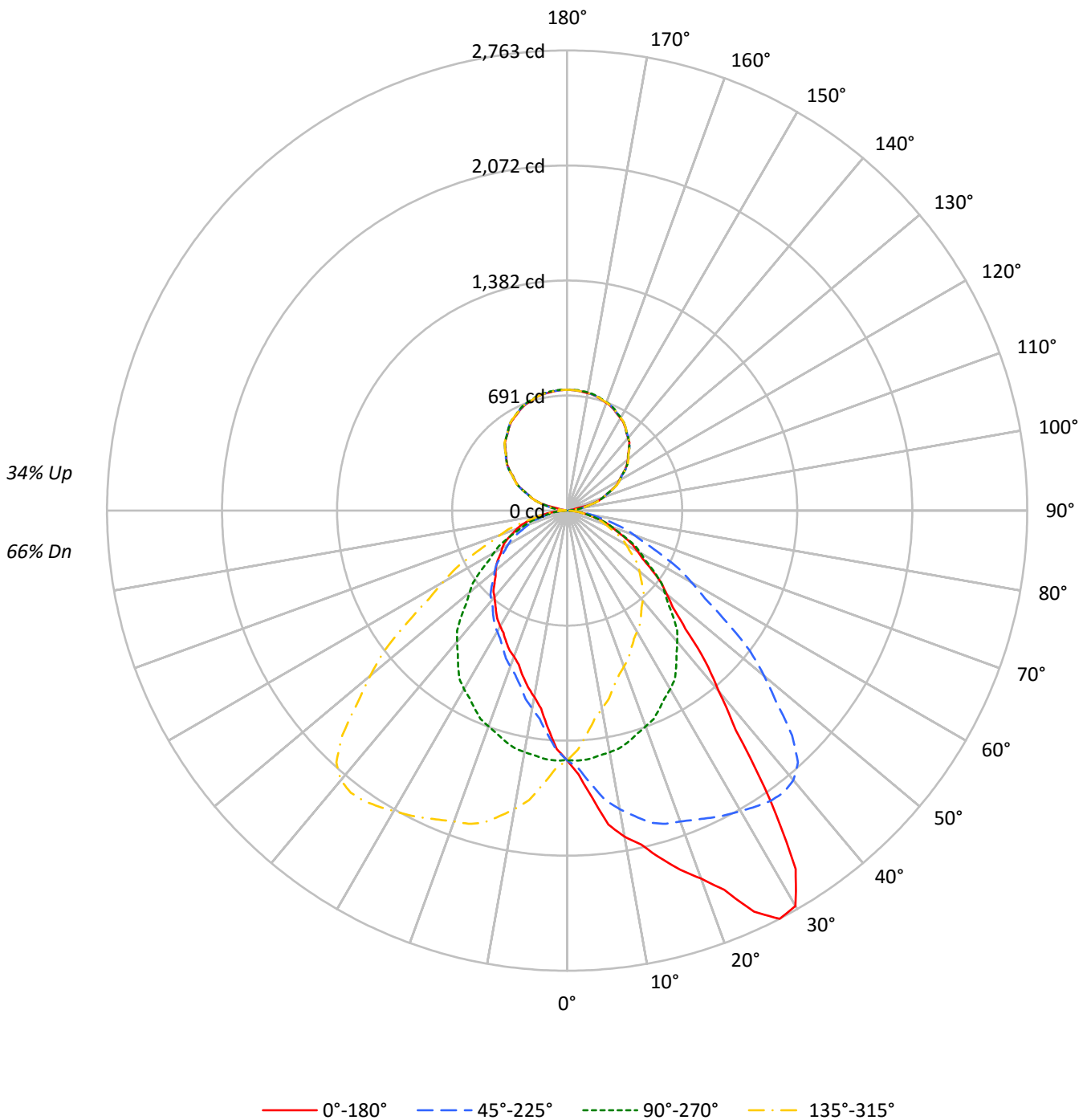
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	92	92	92	81	81	81	70	70	70	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	71	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	36	32	29	27
7	61	49	40	35	57	46	39	33	42	35	31	37	32	28	33	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23	21
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9680	9680	9680	9680
5°	11210	9713	8504	9713
10°	13042	9663	7451	9663
15°	14437	9591	6873	9591
20°	16160	9479	6410	9479
25°	18932	9352	6183	9352
30°	20448	9228	5988	9228
35°	16812	8993	5858	8993
40°	11950	8667	5718	8667
45°	9180	8227	5636	8227
50°	7837	7683	5626	7683
55°	6977	7149	5674	7149
60°	6294	6566	5818	6566
65°	5813	5978	5969	5978
70°	5285	5370	6056	5370
75°	4666	4729	5999	4729
80°	3927	3857	5490	3857
85°	3105	2779	4431	2779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	2.2
10°-20°	429.6	6.7
20°-30°	697.6	10.8
30°-40°	850.9	13.2
40°-50°	774.1	12.0
50°-60°	616.6	9.5
60°-70°	429.5	6.6
70°-80°	229.0	3.5
80°-90°	59.3	0.9
90°-100°	26.4	0.4
100°-110°	162.5	2.5
110°-120°	294.7	4.6
120°-130°	378.2	5.9
130°-140°	406.7	6.3
140°-150°	381.8	5.9
150°-160°	308.8	4.8
160°-170°	199.7	3.1
170°-180°	68.9	1.1
0°-30°	1271.5	19.7
0°-40°	2122.4	32.9
0°-60°	3513.1	54.4
0°-90°	4230.9	65.5
90°-120°	483.5	7.5
90°-150°	1650.2	25.6
90°-180°	2228.0	34.5
0°-180°	6458.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1499	1499	1499	1499	1499	
5°	1729	1498	1312	1498	1729	174
15°	2159	1434	1028	1434	2159	618
25°	2657	1312	868	1312	2657	1213
35°	2132	1141	743	1141	2132	1305
45°	1005	901	617	901	1005	804
55°	620	635	504	635	620	558
65°	380	391	391	391	380	378
75°	187	190	240	190	187	201
85°	42	38	60	38	42	49
90°	13	1	13	1	13	7
95°	11	31	11	31	11	9
105°	160	158	160	158	160	144
115°	295	297	295	297	295	293
125°	422	422	422	422	422	376
135°	524	526	524	526	524	405
145°	609	610	609	610	609	380
155°	667	672	667	672	667	308
165°	706	709	706	709	706	199
175°	722	726	722	726	722	69
180°	726	726	726	726	726	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1585.4	1583.3	1581.3	1577.2	1580.3	1571.6	1567.5	1560.4	1551.7	1548.7	1545.1
5°	1729.1	1732.3	1735.5	1722.1	1723.3	1714.5	1694.1	1677.5	1664.2	1647.0	1634.9
7.5°	1902.1	1894.6	1894.0	1885.4	1870.5	1858.5	1837.1	1809.9	1783.6	1753.5	1728.7
10°	1988.7	1989.3	1983.6	1973.4	1957.5	1946.1	1918.1	1891.3	1858.9	1820.7	1793.4
12.5°	2053.8	2056.4	2049.3	2035.5	2027.7	2002.1	1980.2	1948.3	1909.8	1879.2	1837.7
15°	2159.2	2152.2	2147.1	2129.9	2116.6	2089.8	2054.8	2021.8	1979.7	1941.0	1902.1
17.5°	2260.7	2266.2	2256.7	2241.1	2199.6	2168.4	2121.5	2076.2	2023.9	1971.9	1925.5
20°	2351.3	2356.4	2341.7	2314.4	2264.7	2233.6	2171.9	2113.4	2053.0	1986.1	1935.2
22.5°	2464.3	2460.2	2440.4	2398.9	2355.9	2298.2	2231.5	2160.2	2084.4	2009.0	1941.4
25°	2656.7	2629.9	2617.8	2566.4	2509.7	2425.1	2333.5	2229.1	2135.0	2035.1	1948.6
27.5°	2763.3	2754.9	2741.4	2705.5	2646.0	2555.5	2447.5	2320.4	2187.5	2061.4	1948.2
30°	2741.9	2743.2	2744.4	2733.0	2694.8	2626.8	2519.2	2382.5	2224.7	2082.8	1951.7
32.5°	2552.6	2575.7	2597.8	2624.0	2634.8	2621.7	2554.4	2430.8	2268.4	2107.2	1949.7
35°	2132.4	2139.5	2211.3	2282.6	2379.3	2454.4	2504.6	2449.9	2313.1	2128.0	1947.3
37.5°	1662.7	1697.0	1746.8	1827.3	1966.9	2091.9	2252.6	2326.5	2282.4	2134.8	1942.9
40°	1417.4	1449.2	1481.7	1563.7	1681.4	1832.8	2015.3	2171.2	2207.5	2113.4	1927.6
42.5°	1228.0	1253.3	1289.3	1350.9	1449.3	1583.5	1757.8	1961.5	2086.9	2051.3	1895.5
45°	1005.1	1021.1	1049.0	1098.1	1169.3	1274.2	1428.2	1650.9	1844.9	1909.1	1819.5
47.5°	860.4	860.3	882.0	915.9	967.2	1056.4	1170.3	1344.7	1552.0	1705.3	1698.2
50°	780.0	776.7	793.9	823.2	863.9	923.1	1031.9	1171.2	1370.3	1544.0	1592.3
52.5°	710.8	711.1	721.7	743.3	777.4	827.9	909.2	1034.8	1204.9	1383.2	1474.2
55°	619.6	617.1	629.1	643.9	668.6	701.7	760.3	856.3	994.3	1169.9	1288.3
57.5°	536.1	543.2	548.0	558.2	578.8	601.0	650.3	720.8	830.3	981.0	1106.1
60°	487.3	494.3	498.1	508.3	524.8	543.9	582.1	639.3	731.6	861.4	985.4
62.5°	443.6	449.0	450.3	459.4	473.0	491.5	521.5	569.7	642.5	756.0	877.5
65°	380.4	380.4	383.0	392.5	398.9	415.4	438.3	473.3	531.9	620.3	724.0
67.5°	319.6	322.6	322.1	326.2	332.1	345.0	361.4	390.2	433.6	498.1	581.1
70°	279.9	282.5	281.8	285.0	291.3	299.6	313.0	340.4	371.6	426.9	498.1
72.5°	244.3	245.3	243.6	247.9	251.7	258.9	273.8	288.4	317.5	364.3	422.8
75°	187.0	188.3	189.5	192.1	196.0	199.7	207.4	222.1	241.1	276.1	313.7
77.5°	140.3	137.8	140.8	140.4	142.6	145.5	152.3	160.0	175.7	197.8	226.9
80°	105.6	106.2	106.2	106.9	110.1	112.0	117.7	123.4	135.5	152.0	172.4
82.5°	77.1	78.8	77.8	78.9	81.5	82.9	86.1	90.9	97.8	110.8	125.5
85°	41.9	38.8	40.1	41.4	41.4	41.9	44.5	46.5	50.2	55.3	61.1
87.5°	14.8	15.7	16.2	16.1	16.6	16.5	18.4	18.3	19.7	21.0	22.9
90°	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8	9.2	8.6	7.7
92.5°	12.1	11.9	11.7	11.5	11.4	11.0	10.4	9.8	9.2	8.6	7.8
95°	11.3	11.3	11.3	11.3	11.3	11.0	10.4	9.8	9.2	8.6	13.1
97.5°	11.3	11.3	11.3	11.3	11.3	13.0	16.3	19.7	23.1	26.5	35.4
100°	11.3	11.8	12.3	12.7	13.2	22.3	40.2	58.0	75.8	93.6	93.1
102.5°	67.7	75.8	83.9	92.0	100.2	105.9	109.2	112.6	116.0	119.4	119.1
105°	159.7	159.9	159.9	160.0	160.2	160.2	160.2	160.2	160.2	160.2	160.2
107.5°	201.3	201.7	202.1	202.5	202.7	202.9	202.9	202.9	202.8	202.8	202.6
110°	230.2	230.1	229.9	229.8	229.7	229.8	230.2	230.5	230.9	231.2	231.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	256.0	256.2	256.3	256.5	256.7	256.9	257.4	257.9	258.4	258.7	258.6
115°	294.7	295.4	296.1	296.8	297.6	298.1	298.6	299.1	299.6	300.1	299.9
117.5°	336.0	336.3	336.6	337.0	337.2	337.7	338.3	338.9	339.6	340.2	339.7
120°	361.4	361.9	362.6	363.2	363.7	364.2	364.4	364.7	364.9	365.1	364.8
122.5°	385.5	386.2	386.8	387.6	388.2	388.7	389.0	389.2	389.5	389.6	389.5
125°	422.2	422.5	422.8	423.2	423.6	424.0	424.4	425.0	425.5	425.9	425.9
127.5°	453.0	453.9	454.8	455.6	456.6	457.1	457.4	457.6	457.9	458.2	458.3
130°	475.4	476.0	476.5	477.2	477.8	478.2	478.6	479.0	479.3	479.7	479.6
132.5°	496.1	496.6	497.2	497.9	498.4	498.8	498.8	498.9	499.0	499.1	499.3
135°	524.3	525.0	525.8	526.5	527.2	527.6	527.9	528.1	528.4	528.6	528.9
137.5°	552.7	553.4	553.9	554.6	555.2	555.4	555.4	555.3	555.3	555.3	555.5
140°	569.5	570.2	570.9	571.7	572.3	572.6	572.3	572.1	571.8	571.7	571.7
142.5°	585.4	586.1	586.8	587.6	588.2	588.6	588.5	588.5	588.4	588.4	588.2
145°	608.7	609.4	610.2	610.9	611.6	611.9	611.8	611.7	611.5	611.4	611.4
147.5°	628.0	628.9	629.7	630.6	631.4	631.8	631.7	631.5	631.4	631.2	631.0
150°	640.5	641.4	642.3	643.4	644.3	644.6	644.4	644.1	643.9	643.7	643.5
152.5°	652.1	652.9	653.8	654.7	655.5	655.8	655.6	655.3	655.2	654.9	654.6
155°	667.3	668.4	669.3	670.2	671.2	671.5	671.1	670.8	670.4	670.1	669.8
157.5°	680.1	681.1	682.0	683.1	684.0	684.3	683.9	683.5	683.2	682.8	682.7
160°	688.3	689.3	690.2	691.2	692.1	692.4	691.9	691.4	691.0	690.5	690.3
162.5°	695.6	696.7	697.8	698.8	699.8	700.0	699.4	698.7	698.0	697.4	697.2
165°	705.5	706.5	707.5	708.4	709.4	709.5	708.8	708.0	707.3	706.6	706.5
167.5°	712.4	713.5	714.5	715.7	716.7	716.8	716.0	715.1	714.3	713.4	713.2
170°	716.3	717.4	718.4	719.5	720.6	720.7	719.7	718.8	717.7	716.8	716.7
172.5°	718.9	719.9	721.0	722.1	723.2	723.3	722.5	721.5	720.7	719.8	719.6
175°	722.2	723.3	724.3	725.5	726.5	726.6	725.6	724.6	723.7	722.7	722.6
177.5°	724.2	724.9	725.7	726.4	727.2	727.3	726.6	725.9	725.3	724.5	724.4
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1542.1	1538.5	1534.5	1527.3	1518.6	1514.1	1506.9	1502.4	1493.2	1485.5	1477.4
5°	1620.3	1603.8	1588.6	1568.8	1547.2	1533.1	1516.6	1498.2	1479.1	1459.3	1437.8
7.5°	1701.4	1672.1	1640.3	1606.1	1572.6	1541.8	1512.4	1483.6	1456.6	1424.0	1396.4
10°	1755.9	1718.9	1679.5	1633.0	1587.9	1548.4	1508.4	1473.4	1437.8	1399.6	1365.8
12.5°	1810.2	1761.1	1705.4	1654.4	1600.1	1552.5	1505.3	1460.7	1415.9	1373.7	1334.3
15°	1848.7	1805.4	1753.9	1681.4	1620.3	1554.8	1492.4	1434.5	1380.4	1333.4	1283.8
17.5°	1874.1	1818.3	1762.9	1693.4	1613.4	1540.0	1469.4	1403.2	1342.2	1282.5	1234.6
20°	1878.6	1821.4	1763.5	1695.4	1613.4	1529.4	1458.8	1379.2	1313.7	1252.0	1193.4
22.5°	1877.1	1812.2	1749.2	1679.1	1599.1	1521.7	1436.3	1355.3	1284.2	1223.5	1162.4
25°	1862.7	1793.4	1714.5	1643.9	1565.0	1482.9	1396.4	1312.4	1239.9	1170.5	1110.1
27.5°	1850.8	1760.8	1671.5	1589.1	1513.0	1437.8	1354.9	1268.9	1188.5	1118.2	1061.3
30°	1836.0	1737.4	1636.8	1551.0	1472.7	1399.6	1321.4	1237.4	1153.4	1084.7	1023.6
32.5°	1822.8	1707.9	1601.8	1508.3	1425.4	1354.2	1282.1	1202.2	1119.7	1050.1	989.0
35°	1797.1	1664.2	1542.8	1437.1	1348.7	1275.5	1215.1	1140.7	1065.0	997.5	939.0
37.5°	1764.7	1606.9	1476.6	1365.8	1268.9	1191.8	1135.6	1078.5	1005.8	940.8	887.9
40°	1739.3	1566.2	1428.2	1314.9	1214.5	1134.3	1082.1	1028.0	967.6	907.2	851.2
42.5°	1707.2	1529.7	1379.3	1257.4	1157.9	1079.9	1025.1	979.2	925.9	869.5	817.6
45°	1648.3	1463.2	1300.3	1169.3	1068.7	991.7	935.2	900.8	860.7	807.3	763.4
47.5°	1561.7	1383.4	1214.9	1079.7	976.0	904.7	851.6	818.6	790.4	750.6	710.9
50°	1484.8	1323.9	1153.4	1019.2	915.5	843.6	794.6	764.7	740.5	709.9	676.3
52.5°	1398.8	1249.1	1092.8	960.1	857.4	786.6	738.6	712.3	692.1	670.2	637.1
55°	1262.2	1134.9	989.9	863.9	769.1	699.7	657.8	634.9	618.4	601.8	581.5
57.5°	1111.6	1012.1	883.6	768.5	681.2	618.1	578.9	556.7	543.8	535.3	523.3
60°	1005.8	920.6	809.8	704.8	619.6	563.6	525.5	508.3	497.5	490.5	481.5
62.5°	907.6	837.5	735.0	639.2	564.7	511.7	477.7	461.0	450.6	447.2	439.9
65°	762.8	708.7	624.1	544.6	481.0	435.7	407.2	391.2	384.8	381.1	381.7
67.5°	620.1	587.2	519.2	451.4	400.7	362.8	339.9	327.6	324.4	319.3	319.2
70°	533.1	508.3	451.0	391.9	346.7	317.4	297.1	284.4	281.2	278.6	278.1
72.5°	456.3	434.5	384.8	337.4	296.8	271.2	254.3	246.7	241.5	240.0	239.9
75°	342.9	330.8	291.3	253.8	225.8	208.0	196.6	189.5	185.8	185.1	185.8
77.5°	243.7	233.2	208.1	181.5	163.9	150.4	140.7	138.3	133.9	134.1	133.5
80°	183.2	176.3	160.3	139.3	124.7	113.2	108.1	103.7	102.5	100.5	102.5
82.5°	132.8	125.4	114.5	101.1	89.1	82.2	77.1	75.7	74.9	74.1	74.5
85°	65.5	66.2	59.8	49.6	44.5	40.7	37.5	37.5	36.9	36.3	36.9
87.5°	23.8	22.6	20.4	18.7	15.9	14.2	13.6	13.9	12.5	12.2	12.9
90°	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6	1.5	2.5	3.4
92.5°	7.2	6.4	5.7	5.6	6.3	7.0	7.6	8.3	7.6	7.0	6.3
95°	17.7	22.2	26.8	29.2	29.6	30.0	30.3	30.6	30.3	30.0	29.6
97.5°	44.4	53.4	62.4	66.5	65.9	65.3	64.7	64.0	64.7	65.3	65.9
100°	92.7	92.2	91.6	91.2	90.9	90.5	90.2	89.8	90.2	90.5	90.9
102.5°	118.9	118.5	118.2	117.8	117.4	117.0	116.5	116.0	116.5	117.0	117.4
105°	160.2	160.2	160.2	160.0	159.6	159.1	158.5	158.1	158.5	159.1	159.6
107.5°	202.4	202.1	201.9	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8
110°	230.7	230.5	230.3	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2



TEST NUMBER: P333259-830

CATALOG NUMBER: S125DIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	258.4	258.4	258.2	258.0	257.7	257.4	257.1	256.8	257.1	257.4	257.7
115°	299.8	299.7	299.6	299.3	298.6	298.0	297.5	296.8	297.5	298.0	298.6
117.5°	339.3	338.8	338.4	338.2	338.2	338.2	338.2	338.3	338.2	338.2	338.2
120°	364.4	364.1	363.7	363.5	363.7	363.8	363.9	364.1	363.9	363.8	363.7
122.5°	389.4	389.2	389.0	388.7	388.2	387.8	387.3	386.8	387.3	387.8	388.2
125°	425.9	425.9	425.9	425.5	424.6	423.8	423.0	422.2	423.0	423.8	424.6
127.5°	458.4	458.4	458.5	458.2	457.6	457.0	456.4	455.8	456.4	457.0	457.6
130°	479.5	479.3	479.2	478.8	478.2	477.7	477.0	476.5	477.0	477.7	478.2
132.5°	499.5	499.8	500.1	499.8	499.2	498.5	497.8	497.1	497.8	498.5	499.2
135°	529.0	529.3	529.6	529.3	528.6	527.9	527.2	526.5	527.2	527.9	528.6
137.5°	555.7	555.9	556.2	555.9	555.3	554.7	554.1	553.5	554.1	554.7	555.3
140°	571.8	572.0	572.1	572.0	571.8	571.6	571.4	571.1	571.4	571.6	571.8
142.5°	588.1	588.0	587.8	587.6	587.5	587.3	587.2	587.0	587.2	587.3	587.5
145°	611.4	611.4	611.4	611.3	611.1	610.9	610.6	610.4	610.6	610.9	611.1
147.5°	630.9	630.7	630.7	630.6	630.7	630.7	630.7	630.7	630.7	630.7	630.7
150°	643.2	643.0	642.7	642.7	643.0	643.2	643.5	643.7	643.5	643.2	643.0
152.5°	654.4	654.1	653.9	654.0	654.6	655.2	655.6	656.2	655.6	655.2	654.6
155°	669.6	669.3	669.1	669.3	670.1	670.8	671.5	672.2	671.5	670.8	670.1
157.5°	682.7	682.7	682.7	682.9	683.2	683.7	684.1	684.6	684.1	683.7	683.2
160°	690.2	690.1	690.0	690.3	691.0	691.7	692.5	693.1	692.5	691.7	691.0
162.5°	697.1	697.0	696.9	697.2	697.9	698.6	699.4	700.0	699.4	698.6	697.9
165°	706.3	706.2	706.2	706.4	707.2	707.8	708.6	709.3	708.6	707.8	707.2
167.5°	713.1	713.0	712.9	713.2	714.0	714.7	715.5	716.1	715.5	714.7	714.0
170°	716.6	716.4	716.3	716.7	717.6	718.4	719.3	720.1	719.3	718.4	717.6
172.5°	719.4	719.2	719.0	719.3	720.1	721.0	721.8	722.6	721.8	721.0	720.1
175°	722.6	722.4	722.3	722.6	723.3	724.0	724.7	725.5	724.7	724.0	723.3
177.5°	724.3	724.2	724.2	724.4	725.0	725.6	726.1	726.7	726.1	725.6	725.0
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



TEST NUMBER: P333259-830

CATALOG NUMBER: S125DIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1472.8	1467.3	1462.6	1452.5	1446.9	1439.3	1433.1	1439.7	1432.7	1435.7	1431.2
5°	1426.9	1409.1	1396.4	1377.9	1362.1	1347.4	1336.6	1334.6	1329.6	1327.0	1319.4
7.5°	1371.7	1349.4	1327.6	1303.3	1283.0	1262.3	1249.1	1238.1	1230.9	1221.3	1214.8
10°	1339.2	1309.2	1283.8	1254.5	1229.1	1206.8	1189.0	1180.1	1171.9	1159.7	1155.3
12.5°	1298.9	1268.0	1237.0	1205.7	1181.2	1156.4	1141.1	1127.7	1121.9	1108.3	1106.9
15°	1250.8	1204.3	1173.7	1141.9	1108.2	1087.9	1075.2	1060.5	1054.1	1044.6	1037.6
17.5°	1193.2	1151.7	1113.5	1080.6	1051.7	1034.5	1018.8	1008.7	997.8	991.6	980.1
20°	1151.5	1112.0	1073.8	1038.9	1016.6	996.8	984.1	974.6	963.2	960.0	948.6
22.5°	1116.3	1072.8	1036.2	1006.8	982.5	960.3	946.5	940.0	932.1	922.3	920.0
25°	1059.2	1014.1	982.9	953.7	932.0	911.6	902.1	893.8	886.2	879.2	876.7
27.5°	1009.8	969.5	932.5	906.1	887.2	868.6	860.3	850.2	844.6	839.0	832.1
30°	975.2	933.9	901.4	876.0	855.6	839.1	830.2	823.2	818.1	813.0	809.2
32.5°	939.6	901.4	869.9	845.0	824.6	812.1	804.3	799.3	793.7	787.6	782.8
35°	892.6	850.6	820.0	798.4	782.5	773.0	764.0	759.6	753.2	753.2	748.1
37.5°	839.5	803.2	776.3	756.6	742.3	733.8	724.1	721.0	717.0	714.3	712.5
40°	807.9	774.2	748.8	729.1	713.8	706.8	699.2	694.1	691.5	688.3	687.0
42.5°	775.3	743.2	718.8	700.6	687.3	681.4	674.2	670.6	665.5	661.4	660.6
45°	725.9	694.7	672.4	657.8	646.3	639.3	634.9	627.3	624.7	619.6	619.0
47.5°	678.9	649.0	627.2	615.2	605.1	599.4	592.4	584.8	581.8	579.3	579.0
50°	643.9	616.4	596.1	584.7	575.1	566.8	559.9	554.8	552.8	552.8	554.1
52.5°	608.2	584.8	567.6	553.6	544.6	535.7	529.3	526.2	523.3	526.4	528.7
55°	556.0	532.4	519.7	506.4	497.5	487.3	484.1	482.9	481.0	486.1	488.6
57.5°	500.8	484.3	469.4	456.1	448.1	442.2	437.9	437.2	440.7	443.2	451.4
60°	465.7	446.6	433.2	423.0	413.5	409.7	408.4	407.2	409.7	416.7	427.5
62.5°	427.0	411.5	397.1	389.5	382.5	376.1	375.9	376.6	381.7	389.7	400.5
65°	370.2	356.8	347.3	338.5	332.7	328.9	330.2	332.7	338.5	349.2	361.4
67.5°	312.6	303.5	294.9	287.7	282.2	282.2	283.5	287.3	294.1	306.5	317.5
70°	275.5	265.3	258.3	255.1	250.6	248.1	251.9	258.3	264.0	275.5	285.0
72.5°	238.3	229.7	224.2	222.1	220.1	218.1	219.3	226.2	233.9	245.4	256.5
75°	183.2	180.0	176.3	173.7	171.7	173.1	174.3	180.7	187.0	199.2	211.9
77.5°	133.7	130.4	128.1	127.5	126.5	127.1	130.6	135.3	141.6	150.4	160.0
80°	101.1	99.9	98.6	97.9	97.9	98.6	103.7	106.9	112.6	120.8	128.5
82.5°	73.7	72.9	72.7	72.5	73.0	73.1	76.3	80.4	85.1	91.3	97.9
85°	38.8	37.5	39.4	40.1	38.8	40.7	41.9	44.5	46.5	49.6	52.8
87.5°	13.6	14.8	14.4	15.1	15.3	16.5	16.1	18.3	19.4	20.5	20.1
90°	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8	10.4	11.0	11.5
92.5°	5.6	5.7	6.4	7.2	7.8	8.6	9.2	9.8	10.4	11.0	11.4
95°	29.2	26.8	22.2	17.7	13.1	8.6	9.2	9.8	10.4	11.0	11.3
97.5°	66.5	62.4	53.4	44.4	35.4	26.5	23.1	19.7	16.3	13.0	11.3
100°	91.2	91.6	92.2	92.7	93.1	93.6	75.8	58.0	40.2	22.3	13.2
102.5°	117.8	118.2	118.5	118.9	119.1	119.4	116.0	112.6	109.2	105.9	100.2
105°	160.0	160.2	160.2	160.2	160.2	160.2	160.2	160.2	160.2	160.2	160.2
107.5°	201.8	201.9	202.1	202.4	202.6	202.8	202.8	202.9	202.9	202.9	202.7
110°	230.2	230.3	230.5	230.7	231.0	231.2	230.9	230.5	230.2	229.8	229.7



TEST NUMBER: P333259-830

CATALOG NUMBER: S125DIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	258.0	258.2	258.4	258.4	258.6	258.7	258.4	257.9	257.4	256.9	256.7
115°	299.3	299.6	299.7	299.8	299.9	300.1	299.6	299.1	298.6	298.1	297.6
117.5°	338.2	338.4	338.8	339.3	339.7	340.2	339.6	338.9	338.3	337.7	337.2
120°	363.5	363.7	364.1	364.4	364.8	365.1	364.9	364.7	364.4	364.2	363.7
122.5°	388.7	389.0	389.2	389.4	389.5	389.6	389.5	389.2	389.0	388.7	388.2
125°	425.5	425.9	425.9	425.9	425.9	425.9	425.5	425.0	424.4	424.0	423.6
127.5°	458.2	458.5	458.4	458.4	458.3	458.2	457.9	457.6	457.4	457.1	456.6
130°	478.8	479.2	479.3	479.5	479.6	479.7	479.3	479.0	478.6	478.2	477.8
132.5°	499.8	500.1	499.8	499.5	499.3	499.1	499.0	498.9	498.8	498.8	498.4
135°	529.3	529.6	529.3	529.0	528.9	528.6	528.4	528.1	527.9	527.6	527.2
137.5°	555.9	556.2	555.9	555.7	555.5	555.3	555.3	555.3	555.4	555.4	555.2
140°	572.0	572.1	572.0	571.8	571.7	571.7	571.8	572.1	572.3	572.6	572.3
142.5°	587.6	587.8	588.0	588.1	588.2	588.4	588.4	588.5	588.5	588.6	588.2
145°	611.3	611.4	611.4	611.4	611.4	611.4	611.5	611.7	611.8	611.9	611.6
147.5°	630.6	630.7	630.7	630.9	631.0	631.2	631.4	631.5	631.7	631.8	631.4
150°	642.7	642.7	643.0	643.2	643.5	643.7	643.9	644.1	644.4	644.6	644.3
152.5°	654.0	653.9	654.1	654.4	654.6	654.9	655.2	655.3	655.6	655.8	655.5
155°	669.3	669.1	669.3	669.6	669.8	670.1	670.4	670.8	671.1	671.5	671.2
157.5°	682.9	682.7	682.7	682.7	682.7	682.8	683.2	683.5	683.9	684.3	684.0
160°	690.3	690.0	690.1	690.2	690.3	690.5	691.0	691.4	691.9	692.4	692.1
162.5°	697.2	696.9	697.0	697.1	697.2	697.4	698.0	698.7	699.4	700.0	699.8
165°	706.4	706.2	706.2	706.3	706.5	706.6	707.3	708.0	708.8	709.5	709.4
167.5°	713.2	712.9	713.0	713.1	713.2	713.4	714.3	715.1	716.0	716.8	716.7
170°	716.7	716.3	716.4	716.6	716.7	716.8	717.7	718.8	719.7	720.7	720.6
172.5°	719.3	719.0	719.2	719.4	719.6	719.8	720.7	721.5	722.5	723.3	723.2
175°	722.6	722.3	722.4	722.6	722.6	722.7	723.7	724.6	725.6	726.6	726.5
177.5°	724.4	724.2	724.2	724.3	724.4	724.5	725.3	725.9	726.6	727.3	727.2
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



TEST NUMBER: P333259-830

CATALOG NUMBER: S125DIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1428.0	1431.6	1428.6	1432.7	1428.6	1431.6	1428.0	1431.2	1435.7	1432.7	1439.7
5°	1316.3	1310.5	1314.3	1311.7	1314.3	1310.5	1316.3	1319.4	1327.0	1329.6	1334.6
7.5°	1213.0	1207.5	1201.2	1198.3	1201.2	1207.5	1213.0	1214.8	1221.3	1230.9	1238.1
10°	1148.3	1141.3	1140.7	1136.2	1140.7	1141.3	1148.3	1155.3	1159.7	1171.9	1180.1
12.5°	1101.0	1094.5	1087.2	1085.3	1087.2	1094.5	1101.0	1106.9	1108.3	1121.9	1127.7
15°	1033.8	1028.7	1024.3	1028.0	1024.3	1028.7	1033.8	1037.6	1044.6	1054.1	1060.5
17.5°	977.9	973.7	973.0	968.3	973.0	973.7	977.9	980.1	991.6	997.8	1008.7
20°	942.8	939.6	940.9	932.6	940.9	939.6	942.8	948.6	960.0	963.2	974.6
22.5°	914.8	908.6	907.9	906.2	907.9	908.6	914.8	920.0	922.3	932.1	940.0
25°	870.9	867.7	864.6	867.7	864.6	867.7	870.9	876.7	879.2	886.2	893.8
27.5°	832.6	828.8	827.9	828.3	827.9	828.8	832.6	832.1	839.0	844.6	850.2
30°	809.2	802.9	803.5	802.9	803.5	802.9	809.2	809.2	813.0	818.1	823.2
32.5°	783.7	779.4	778.5	777.4	778.5	779.4	783.7	782.8	787.6	793.7	799.3
35°	746.2	746.2	743.0	743.0	743.0	746.2	746.2	748.1	753.2	753.2	759.6
37.5°	711.0	710.3	708.4	708.7	708.4	710.3	711.0	712.5	714.3	717.0	721.0
40°	684.5	683.9	681.9	678.2	681.9	683.9	684.5	687.0	688.3	691.5	694.1
42.5°	659.0	657.0	656.0	654.8	656.0	657.0	659.0	660.6	661.4	665.5	670.6
45°	619.0	619.0	617.7	617.1	617.7	619.0	619.0	619.0	619.6	624.7	627.3
47.5°	580.0	581.2	583.6	583.2	583.6	581.2	580.0	579.0	579.3	581.8	584.8
50°	556.7	557.3	559.2	559.9	559.2	557.3	556.7	554.1	552.8	552.8	554.8
52.5°	530.7	534.4	536.8	536.4	536.8	534.4	530.7	528.7	526.4	523.3	526.2
55°	494.3	498.8	503.2	503.9	503.2	498.8	494.3	488.6	486.1	481.0	482.9
57.5°	458.3	464.5	469.2	470.8	469.2	464.5	458.3	451.4	443.2	440.7	437.2
60°	433.9	442.1	447.9	450.4	447.9	442.1	433.9	427.5	416.7	409.7	407.2
62.5°	410.5	419.7	425.5	425.9	425.5	419.7	410.5	400.5	389.7	381.7	376.6
65°	372.1	381.7	386.8	390.6	386.8	381.7	372.1	361.4	349.2	338.5	332.7
67.5°	330.9	340.4	346.1	349.1	346.1	340.4	330.9	317.5	306.5	294.1	287.3
70°	301.0	310.5	318.1	320.7	318.1	310.5	301.0	285.0	275.5	264.0	258.3
72.5°	271.4	279.9	286.1	289.1	286.1	279.9	271.4	256.5	245.4	233.9	226.2
75°	220.1	231.6	237.3	240.4	237.3	231.6	220.1	211.9	199.2	187.0	180.7
77.5°	169.8	180.1	183.6	185.2	183.6	180.1	169.8	160.0	150.4	141.6	135.3
80°	136.1	142.5	146.9	147.6	146.9	142.5	136.1	128.5	120.8	112.6	106.9
82.5°	104.6	109.9	111.3	113.0	111.3	109.9	104.6	97.9	91.3	85.1	80.4
85°	57.2	59.8	60.4	59.8	60.4	59.8	57.2	52.8	49.6	46.5	44.5
87.5°	21.2	20.7	20.8	22.0	20.8	20.7	21.2	20.1	20.5	19.4	18.3
90°	11.9	12.2	12.5	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8
92.5°	11.5	11.7	11.9	12.1	11.9	11.7	11.5	11.4	11.0	10.4	9.8
95°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.0	10.4	9.8
97.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	13.0	16.3	19.7
100°	12.7	12.3	11.8	11.3	11.8	12.3	12.7	13.2	22.3	40.2	58.0
102.5°	92.0	83.9	75.8	67.7	75.8	83.9	92.0	100.2	105.9	109.2	112.6
105°	160.0	159.9	159.9	159.7	159.9	159.9	160.0	160.2	160.2	160.2	160.2
107.5°	202.5	202.1	201.7	201.3	201.7	202.1	202.5	202.7	202.9	202.9	202.9
110°	229.8	229.9	230.1	230.2	230.1	229.9	229.8	229.7	229.8	230.2	230.5



TEST NUMBER: P333259-830

CATALOG NUMBER: S125DIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	256.5	256.3	256.2	256.0	256.2	256.3	256.5	256.7	256.9	257.4	257.9
115°	296.8	296.1	295.4	294.7	295.4	296.1	296.8	297.6	298.1	298.6	299.1
117.5°	337.0	336.6	336.3	336.0	336.3	336.6	337.0	337.2	337.7	338.3	338.9
120°	363.2	362.6	361.9	361.4	361.9	362.6	363.2	363.7	364.2	364.4	364.7
122.5°	387.6	386.8	386.2	385.5	386.2	386.8	387.6	388.2	388.7	389.0	389.2
125°	423.2	422.8	422.5	422.2	422.5	422.8	423.2	423.6	424.0	424.4	425.0
127.5°	455.6	454.8	453.9	453.0	453.9	454.8	455.6	456.6	457.1	457.4	457.6
130°	477.2	476.5	476.0	475.4	476.0	476.5	477.2	477.8	478.2	478.6	479.0
132.5°	497.9	497.2	496.6	496.1	496.6	497.2	497.9	498.4	498.8	498.8	498.9
135°	526.5	525.8	525.0	524.3	525.0	525.8	526.5	527.2	527.6	527.9	528.1
137.5°	554.6	553.9	553.4	552.7	553.4	553.9	554.6	555.2	555.4	555.4	555.3
140°	571.7	570.9	570.2	569.5	570.2	570.9	571.7	572.3	572.6	572.3	572.1
142.5°	587.6	586.8	586.1	585.4	586.1	586.8	587.6	588.2	588.6	588.5	588.5
145°	610.9	610.2	609.4	608.7	609.4	610.2	610.9	611.6	611.9	611.8	611.7
147.5°	630.6	629.7	628.9	628.0	628.9	629.7	630.6	631.4	631.8	631.7	631.5
150°	643.4	642.3	641.4	640.5	641.4	642.3	643.4	644.3	644.6	644.4	644.1
152.5°	654.7	653.8	652.9	652.1	652.9	653.8	654.7	655.5	655.8	655.6	655.3
155°	670.2	669.3	668.4	667.3	668.4	669.3	670.2	671.2	671.5	671.1	670.8
157.5°	683.1	682.0	681.1	680.1	681.1	682.0	683.1	684.0	684.3	683.9	683.5
160°	691.2	690.2	689.3	688.3	689.3	690.2	691.2	692.1	692.4	691.9	691.4
162.5°	698.8	697.8	696.7	695.6	696.7	697.8	698.8	699.8	700.0	699.4	698.7
165°	708.4	707.5	706.5	705.5	706.5	707.5	708.4	709.4	709.5	708.8	708.0
167.5°	715.7	714.5	713.5	712.4	713.5	714.5	715.7	716.7	716.8	716.0	715.1
170°	719.5	718.4	717.4	716.3	717.4	718.4	719.5	720.6	720.7	719.7	718.8
172.5°	722.1	721.0	719.9	718.9	719.9	721.0	722.1	723.2	723.3	722.5	721.5
175°	725.5	724.3	723.3	722.2	723.3	724.3	725.5	726.5	726.6	725.6	724.6
177.5°	726.4	725.7	724.9	724.2	724.9	725.7	726.4	727.2	727.3	726.6	725.9
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



TEST NUMBER: P333259-830

CATALOG NUMBER: S125DIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1433.1	1439.3	1446.9	1452.5	1462.6	1467.3	1472.8	1477.4	1485.5	1493.2	1502.4
5°	1336.6	1347.4	1362.1	1377.9	1396.4	1409.1	1426.9	1437.8	1459.3	1479.1	1498.2
7.5°	1249.1	1262.3	1283.0	1303.3	1327.6	1349.4	1371.7	1396.4	1424.0	1456.6	1483.6
10°	1189.0	1206.8	1229.1	1254.5	1283.8	1309.2	1339.2	1365.8	1399.6	1437.8	1473.4
12.5°	1141.1	1156.4	1181.2	1205.7	1237.0	1268.0	1298.9	1334.3	1373.7	1415.9	1460.7
15°	1075.2	1087.9	1108.2	1141.9	1173.7	1204.3	1250.8	1283.8	1333.4	1380.4	1434.5
17.5°	1018.8	1034.5	1051.7	1080.6	1113.5	1151.7	1193.2	1234.6	1282.5	1342.2	1403.2
20°	984.1	996.8	1016.6	1038.9	1073.8	1112.0	1151.5	1193.4	1252.0	1313.7	1379.2
22.5°	946.5	960.3	982.5	1006.8	1036.2	1072.8	1116.3	1162.4	1223.5	1284.2	1355.3
25°	902.1	911.6	932.0	953.7	982.9	1014.1	1059.2	1110.1	1170.5	1239.9	1312.4
27.5°	860.3	868.6	887.2	906.1	932.5	969.5	1009.8	1061.3	1118.2	1188.5	1268.9
30°	830.2	839.1	855.6	876.0	901.4	933.9	975.2	1023.6	1084.7	1153.4	1237.4
32.5°	804.3	812.1	824.6	845.0	869.9	901.4	939.6	989.0	1050.1	1119.7	1202.2
35°	764.0	773.0	782.5	798.4	820.0	850.6	892.6	939.0	997.5	1065.0	1140.7
37.5°	724.1	733.8	742.3	756.6	776.3	803.2	839.5	887.9	940.8	1005.8	1078.5
40°	699.2	706.8	713.8	729.1	748.8	774.2	807.9	851.2	907.2	967.6	1028.0
42.5°	674.2	681.4	687.3	700.6	718.8	743.2	775.3	817.6	869.5	925.9	979.2
45°	634.9	639.3	646.3	657.8	672.4	694.7	725.9	763.4	807.3	860.7	900.8
47.5°	592.4	599.4	605.1	615.2	627.2	649.0	678.9	710.9	750.6	790.4	818.6
50°	559.9	566.8	575.1	584.7	596.1	616.4	643.9	676.3	709.9	740.5	764.7
52.5°	529.3	535.7	544.6	553.6	567.6	584.8	608.2	637.1	670.2	692.1	712.3
55°	484.1	487.3	497.5	506.4	519.7	532.4	556.0	581.5	601.8	618.4	634.9
57.5°	437.9	442.2	448.1	456.1	469.4	484.3	500.8	523.3	535.3	543.8	556.7
60°	408.4	409.7	413.5	423.0	433.2	446.6	465.7	481.5	490.5	497.5	508.3
62.5°	375.9	376.1	382.5	389.5	397.1	411.5	427.0	439.9	447.2	450.6	461.0
65°	330.2	328.9	332.7	338.5	347.3	356.8	370.2	381.7	381.1	384.8	391.2
67.5°	283.5	282.2	282.2	287.7	294.9	303.5	312.6	319.2	319.3	324.4	327.6
70°	251.9	248.1	250.6	255.1	258.3	265.3	275.5	278.1	278.6	281.2	284.4
72.5°	219.3	218.1	220.1	222.1	224.2	229.7	238.3	239.9	240.0	241.5	246.7
75°	174.3	173.1	171.7	173.7	176.3	180.0	183.2	185.8	185.1	185.8	189.5
77.5°	130.6	127.1	126.5	127.5	128.1	130.4	133.7	133.5	134.1	133.9	138.3
80°	103.7	98.6	97.9	97.9	98.6	99.9	101.1	102.5	100.5	102.5	103.7
82.5°	76.3	73.1	73.0	72.5	72.7	72.9	73.7	74.5	74.1	74.9	75.7
85°	41.9	40.7	38.8	40.1	39.4	37.5	38.8	36.9	36.3	36.9	37.5
87.5°	16.1	16.5	15.3	15.1	14.4	14.8	13.6	12.9	12.2	12.5	13.9
90°	9.2	8.6	7.7	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6
92.5°	9.2	8.6	7.8	7.2	6.4	5.7	5.6	6.3	7.0	7.6	8.3
95°	9.2	8.6	13.1	17.7	22.2	26.8	29.2	29.6	30.0	30.3	30.6
97.5°	23.1	26.5	35.4	44.4	53.4	62.4	66.5	65.9	65.3	64.7	64.0
100°	75.8	93.6	93.1	92.7	92.2	91.6	91.2	90.9	90.5	90.2	89.8
102.5°	116.0	119.4	119.1	118.9	118.5	118.2	117.8	117.4	117.0	116.5	116.0
105°	160.2	160.2	160.2	160.2	160.2	160.2	160.0	159.6	159.1	158.5	158.1
107.5°	202.8	202.8	202.6	202.4	202.1	201.9	201.8	201.8	201.8	201.8	201.8
110°	230.9	231.2	231.0	230.7	230.5	230.3	230.2	230.2	230.2	230.2	230.2



TEST NUMBER: P333259-830

CATALOG NUMBER: S125DIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	258.4	258.7	258.6	258.4	258.4	258.2	258.0	257.7	257.4	257.1	256.8
115°	299.6	300.1	299.9	299.8	299.7	299.6	299.3	298.6	298.0	297.5	296.8
117.5°	339.6	340.2	339.7	339.3	338.8	338.4	338.2	338.2	338.2	338.2	338.3
120°	364.9	365.1	364.8	364.4	364.1	363.7	363.5	363.7	363.8	363.9	364.1
122.5°	389.5	389.6	389.5	389.4	389.2	389.0	388.7	388.2	387.8	387.3	386.8
125°	425.5	425.9	425.9	425.9	425.9	425.9	425.5	424.6	423.8	423.0	422.2
127.5°	457.9	458.2	458.3	458.4	458.4	458.5	458.2	457.6	457.0	456.4	455.8
130°	479.3	479.7	479.6	479.5	479.3	479.2	478.8	478.2	477.7	477.0	476.5
132.5°	499.0	499.1	499.3	499.5	499.8	500.1	499.8	499.2	498.5	497.8	497.1
135°	528.4	528.6	528.9	529.0	529.3	529.6	529.3	528.6	527.9	527.2	526.5
137.5°	555.3	555.3	555.5	555.7	555.9	556.2	555.9	555.3	554.7	554.1	553.5
140°	571.8	571.7	571.7	571.8	572.0	572.1	572.0	571.8	571.6	571.4	571.1
142.5°	588.4	588.4	588.2	588.1	588.0	587.8	587.6	587.5	587.3	587.2	587.0
145°	611.5	611.4	611.4	611.4	611.4	611.4	611.3	611.1	610.9	610.6	610.4
147.5°	631.4	631.2	631.0	630.9	630.7	630.7	630.6	630.7	630.7	630.7	630.7
150°	643.9	643.7	643.5	643.2	643.0	642.7	642.7	643.0	643.2	643.5	643.7
152.5°	655.2	654.9	654.6	654.4	654.1	653.9	654.0	654.6	655.2	655.6	656.2
155°	670.4	670.1	669.8	669.6	669.3	669.1	669.3	670.1	670.8	671.5	672.2
157.5°	683.2	682.8	682.7	682.7	682.7	682.7	682.9	683.2	683.7	684.1	684.6
160°	691.0	690.5	690.3	690.2	690.1	690.0	690.3	691.0	691.7	692.5	693.1
162.5°	698.0	697.4	697.2	697.1	697.0	696.9	697.2	697.9	698.6	699.4	700.0
165°	707.3	706.6	706.5	706.3	706.2	706.2	706.4	707.2	707.8	708.6	709.3
167.5°	714.3	713.4	713.2	713.1	713.0	712.9	713.2	714.0	714.7	715.5	716.1
170°	717.7	716.8	716.7	716.6	716.4	716.3	716.7	717.6	718.4	719.3	720.1
172.5°	720.7	719.8	719.6	719.4	719.2	719.0	719.3	720.1	721.0	721.8	722.6
175°	723.7	722.7	722.6	722.6	722.4	722.3	722.6	723.3	724.0	724.7	725.5
177.5°	725.3	724.5	724.4	724.3	724.2	724.2	724.4	725.0	725.6	726.1	726.7
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



TEST NUMBER: P333259-830

CATALOG NUMBER: S125DIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1506.9	1514.1	1518.6	1527.3	1534.5	1538.5	1542.1	1545.1	1548.7	1551.7	1560.4
5°	1516.6	1533.1	1547.2	1568.8	1588.6	1603.8	1620.3	1634.9	1647.0	1664.2	1677.5
7.5°	1512.4	1541.8	1572.6	1606.1	1640.3	1672.1	1701.4	1728.7	1753.5	1783.6	1809.9
10°	1508.4	1548.4	1587.9	1633.0	1679.5	1718.9	1755.9	1793.4	1820.7	1858.9	1891.3
12.5°	1505.3	1552.5	1600.1	1654.4	1705.4	1761.1	1810.2	1837.7	1879.2	1909.8	1948.3
15°	1492.4	1554.8	1620.3	1681.4	1753.9	1805.4	1848.7	1902.1	1941.0	1979.7	2021.8
17.5°	1469.4	1540.0	1613.4	1693.4	1762.9	1818.3	1874.1	1925.5	1971.9	2023.9	2076.2
20°	1458.8	1529.4	1613.4	1695.4	1763.5	1821.4	1878.6	1935.2	1986.1	2053.0	2113.4
22.5°	1436.3	1521.7	1599.1	1679.1	1749.2	1812.2	1877.1	1941.4	2009.0	2084.4	2160.2
25°	1396.4	1482.9	1565.0	1643.9	1714.5	1793.4	1862.7	1948.6	2035.1	2135.0	2229.1
27.5°	1354.9	1437.8	1513.0	1589.1	1671.5	1760.8	1850.8	1948.2	2061.4	2187.5	2320.4
30°	1321.4	1399.6	1472.7	1551.0	1636.8	1737.4	1836.0	1951.7	2082.8	2224.7	2382.5
32.5°	1282.1	1354.2	1425.4	1508.3	1601.8	1707.9	1822.8	1949.7	2107.2	2268.4	2430.8
35°	1215.1	1275.5	1348.7	1437.1	1542.8	1664.2	1797.1	1947.3	2128.0	2313.1	2449.9
37.5°	1135.6	1191.8	1268.9	1365.8	1476.6	1606.9	1764.7	1942.9	2134.8	2282.4	2326.5
40°	1082.1	1134.3	1214.5	1314.9	1428.2	1566.2	1739.3	1927.6	2113.4	2207.5	2171.2
42.5°	1025.1	1079.9	1157.9	1257.4	1379.3	1529.7	1707.2	1895.5	2051.3	2086.9	1961.5
45°	935.2	991.7	1068.7	1169.3	1300.3	1463.2	1648.3	1819.5	1909.1	1844.9	1650.9
47.5°	851.6	904.7	976.0	1079.7	1214.9	1383.4	1561.7	1698.2	1705.3	1552.0	1344.7
50°	794.6	843.6	915.5	1019.2	1153.4	1323.9	1484.8	1592.3	1544.0	1370.3	1171.2
52.5°	738.6	786.6	857.4	960.1	1092.8	1249.1	1398.8	1474.2	1383.2	1204.9	1034.8
55°	657.8	699.7	769.1	863.9	989.9	1134.9	1262.2	1288.3	1169.9	994.3	856.3
57.5°	578.9	618.1	681.2	768.5	883.6	1012.1	1111.6	1106.1	981.0	830.3	720.8
60°	525.5	563.6	619.6	704.8	809.8	920.6	1005.8	985.4	861.4	731.6	639.3
62.5°	477.7	511.7	564.7	639.2	735.0	837.5	907.6	877.5	756.0	642.5	569.7
65°	407.2	435.7	481.0	544.6	624.1	708.7	762.8	724.0	620.3	531.9	473.3
67.5°	339.9	362.8	400.7	451.4	519.2	587.2	620.1	581.1	498.1	433.6	390.2
70°	297.1	317.4	346.7	391.9	451.0	508.3	533.1	498.1	426.9	371.6	340.4
72.5°	254.3	271.2	296.8	337.4	384.8	434.5	456.3	422.8	364.3	317.5	288.4
75°	196.6	208.0	225.8	253.8	291.3	330.8	342.9	313.7	276.1	241.1	222.1
77.5°	140.7	150.4	163.9	181.5	208.1	233.2	243.7	226.9	197.8	175.7	160.0
80°	108.1	113.2	124.7	139.3	160.3	176.3	183.2	172.4	152.0	135.5	123.4
82.5°	77.1	82.2	89.1	101.1	114.5	125.4	132.8	125.5	110.8	97.8	90.9
85°	37.5	40.7	44.5	49.6	59.8	66.2	65.5	61.1	55.3	50.2	46.5
87.5°	13.6	14.2	15.9	18.7	20.4	22.6	23.8	22.9	21.0	19.7	18.3
90°	1.5	2.5	3.4	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8
92.5°	7.6	7.0	6.3	5.6	5.7	6.4	7.2	7.8	8.6	9.2	9.8
95°	30.3	30.0	29.6	29.2	26.8	22.2	17.7	13.1	8.6	9.2	9.8
97.5°	64.7	65.3	65.9	66.5	62.4	53.4	44.4	35.4	26.5	23.1	19.7
100°	90.2	90.5	90.9	91.2	91.6	92.2	92.7	93.1	93.6	75.8	58.0
102.5°	116.5	117.0	117.4	117.8	118.2	118.5	118.9	119.1	119.4	116.0	112.6
105°	158.5	159.1	159.6	160.0	160.2	160.2	160.2	160.2	160.2	160.2	160.2
107.5°	201.8	201.8	201.8	201.8	201.9	202.1	202.4	202.6	202.8	202.8	202.9
110°	230.2	230.2	230.2	230.2	230.3	230.5	230.7	231.0	231.2	230.9	230.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	257.1	257.4	257.7	258.0	258.2	258.4	258.4	258.6	258.7	258.4	257.9
115°	297.5	298.0	298.6	299.3	299.6	299.7	299.8	299.9	300.1	299.6	299.1
117.5°	338.2	338.2	338.2	338.2	338.4	338.8	339.3	339.7	340.2	339.6	338.9
120°	363.9	363.8	363.7	363.5	363.7	364.1	364.4	364.8	365.1	364.9	364.7
122.5°	387.3	387.8	388.2	388.7	389.0	389.2	389.4	389.5	389.6	389.5	389.2
125°	423.0	423.8	424.6	425.5	425.9	425.9	425.9	425.9	425.9	425.5	425.0
127.5°	456.4	457.0	457.6	458.2	458.5	458.4	458.4	458.3	458.2	457.9	457.6
130°	477.0	477.7	478.2	478.8	479.2	479.3	479.5	479.6	479.7	479.3	479.0
132.5°	497.8	498.5	499.2	499.8	500.1	499.8	499.5	499.3	499.1	499.0	498.9
135°	527.2	527.9	528.6	529.3	529.6	529.3	529.0	528.9	528.6	528.4	528.1
137.5°	554.1	554.7	555.3	555.9	556.2	555.9	555.7	555.5	555.3	555.3	555.3
140°	571.4	571.6	571.8	572.0	572.1	572.0	571.8	571.7	571.7	571.8	572.1
142.5°	587.2	587.3	587.5	587.6	587.8	588.0	588.1	588.2	588.4	588.4	588.5
145°	610.6	610.9	611.1	611.3	611.4	611.4	611.4	611.4	611.4	611.5	611.7
147.5°	630.7	630.7	630.7	630.6	630.7	630.7	630.9	631.0	631.2	631.4	631.5
150°	643.5	643.2	643.0	642.7	642.7	643.0	643.2	643.5	643.7	643.9	644.1
152.5°	655.6	655.2	654.6	654.0	653.9	654.1	654.4	654.6	654.9	655.2	655.3
155°	671.5	670.8	670.1	669.3	669.1	669.3	669.6	669.8	670.1	670.4	670.8
157.5°	684.1	683.7	683.2	682.9	682.7	682.7	682.7	682.7	682.8	683.2	683.5
160°	692.5	691.7	691.0	690.3	690.0	690.1	690.2	690.3	690.5	691.0	691.4
162.5°	699.4	698.6	697.9	697.2	696.9	697.0	697.1	697.2	697.4	698.0	698.7
165°	708.6	707.8	707.2	706.4	706.2	706.2	706.3	706.5	706.6	707.3	708.0
167.5°	715.5	714.7	714.0	713.2	712.9	713.0	713.1	713.2	713.4	714.3	715.1
170°	719.3	718.4	717.6	716.7	716.3	716.4	716.6	716.7	716.8	717.7	718.8
172.5°	721.8	721.0	720.1	719.3	719.0	719.2	719.4	719.6	719.8	720.7	721.5
175°	724.7	724.0	723.3	722.6	722.3	722.4	722.6	722.6	722.7	723.7	724.6
177.5°	726.1	725.6	725.0	724.4	724.2	724.2	724.3	724.4	724.5	725.3	725.9
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1567.5	1571.6	1580.3	1577.2	1581.3	1583.3	1585.4
5°	1694.1	1714.5	1723.3	1722.1	1735.5	1732.3	1729.1
7.5°	1837.1	1858.5	1870.5	1885.4	1894.0	1894.6	1902.1
10°	1918.1	1946.1	1957.5	1973.4	1983.6	1989.3	1988.7
12.5°	1980.2	2002.1	2027.7	2035.5	2049.3	2056.4	2053.8
15°	2054.8	2089.8	2116.6	2129.9	2147.1	2152.2	2159.2
17.5°	2121.5	2168.4	2199.6	2241.1	2256.7	2266.2	2260.7
20°	2171.9	2233.6	2264.7	2314.4	2341.7	2356.4	2351.3
22.5°	2231.5	2298.2	2355.9	2398.9	2440.4	2460.2	2464.3
25°	2333.5	2425.1	2509.7	2566.4	2617.8	2629.9	2656.7
27.5°	2447.5	2555.5	2646.0	2705.5	2741.4	2754.9	2763.3
30°	2519.2	2626.8	2694.8	2733.0	2744.4	2743.2	2741.9
32.5°	2554.4	2621.7	2634.8	2624.0	2597.8	2575.7	2552.6
35°	2504.6	2454.4	2379.3	2282.6	2211.3	2139.5	2132.4
37.5°	2252.6	2091.9	1966.9	1827.3	1746.8	1697.0	1662.7
40°	2015.3	1832.8	1681.4	1563.7	1481.7	1449.2	1417.4
42.5°	1757.8	1583.5	1449.3	1350.9	1289.3	1253.3	1228.0
45°	1428.2	1274.2	1169.3	1098.1	1049.0	1021.1	1005.1
47.5°	1170.3	1056.4	967.2	915.9	882.0	860.3	860.4
50°	1031.9	923.1	863.9	823.2	793.9	776.7	780.0
52.5°	909.2	827.9	777.4	743.3	721.7	711.1	710.8
55°	760.3	701.7	668.6	643.9	629.1	617.1	619.6
57.5°	650.3	601.0	578.8	558.2	548.0	543.2	536.1
60°	582.1	543.9	524.8	508.3	498.1	494.3	487.3
62.5°	521.5	491.5	473.0	459.4	450.3	449.0	443.6
65°	438.3	415.4	398.9	392.5	383.0	380.4	380.4
67.5°	361.4	345.0	332.1	326.2	322.1	322.6	319.6
70°	313.0	299.6	291.3	285.0	281.8	282.5	279.9
72.5°	273.8	258.9	251.7	247.9	243.6	245.3	244.3
75°	207.4	199.7	196.0	192.1	189.5	188.3	187.0
77.5°	152.3	145.5	142.6	140.4	140.8	137.8	140.3
80°	117.7	112.0	110.1	106.9	106.2	106.2	105.6
82.5°	86.1	82.9	81.5	78.9	77.8	78.8	77.1
85°	44.5	41.9	41.4	41.4	40.1	38.8	41.9
87.5°	18.4	16.5	16.6	16.1	16.2	15.7	14.8
90°	10.4	11.0	11.5	11.9	12.2	12.5	12.9
92.5°	10.4	11.0	11.4	11.5	11.7	11.9	12.1
95°	10.4	11.0	11.3	11.3	11.3	11.3	11.3
97.5°	16.3	13.0	11.3	11.3	11.3	11.3	11.3
100°	40.2	22.3	13.2	12.7	12.3	11.8	11.3
102.5°	109.2	105.9	100.2	92.0	83.9	75.8	67.7
105°	160.2	160.2	160.2	160.0	159.9	159.9	159.7
107.5°	202.9	202.9	202.7	202.5	202.1	201.7	201.3
110°	230.2	229.8	229.7	229.8	229.9	230.1	230.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	257.4	256.9	256.7	256.5	256.3	256.2	256.0
115°	298.6	298.1	297.6	296.8	296.1	295.4	294.7
117.5°	338.3	337.7	337.2	337.0	336.6	336.3	336.0
120°	364.4	364.2	363.7	363.2	362.6	361.9	361.4
122.5°	389.0	388.7	388.2	387.6	386.8	386.2	385.5
125°	424.4	424.0	423.6	423.2	422.8	422.5	422.2
127.5°	457.4	457.1	456.6	455.6	454.8	453.9	453.0
130°	478.6	478.2	477.8	477.2	476.5	476.0	475.4
132.5°	498.8	498.8	498.4	497.9	497.2	496.6	496.1
135°	527.9	527.6	527.2	526.5	525.8	525.0	524.3
137.5°	555.4	555.4	555.2	554.6	553.9	553.4	552.7
140°	572.3	572.6	572.3	571.7	570.9	570.2	569.5
142.5°	588.5	588.6	588.2	587.6	586.8	586.1	585.4
145°	611.8	611.9	611.6	610.9	610.2	609.4	608.7
147.5°	631.7	631.8	631.4	630.6	629.7	628.9	628.0
150°	644.4	644.6	644.3	643.4	642.3	641.4	640.5
152.5°	655.6	655.8	655.5	654.7	653.8	652.9	652.1
155°	671.1	671.5	671.2	670.2	669.3	668.4	667.3
157.5°	683.9	684.3	684.0	683.1	682.0	681.1	680.1
160°	691.9	692.4	692.1	691.2	690.2	689.3	688.3
162.5°	699.4	700.0	699.8	698.8	697.8	696.7	695.6
165°	708.8	709.5	709.4	708.4	707.5	706.5	705.5
167.5°	716.0	716.8	716.7	715.7	714.5	713.5	712.4
170°	719.7	720.7	720.6	719.5	718.4	717.4	716.3
172.5°	722.5	723.3	723.2	722.1	721.0	719.9	718.9
175°	725.6	726.6	726.5	725.5	724.3	723.3	722.2
177.5°	726.6	727.3	727.2	726.4	725.7	724.9	724.2
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5

(END OF REPORT)