

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: P333431-940

Luminaire Tested: **S125DIW-S1090D470U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333431-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIW-S1090D470U940-4F0-1E-UDD-A1  
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

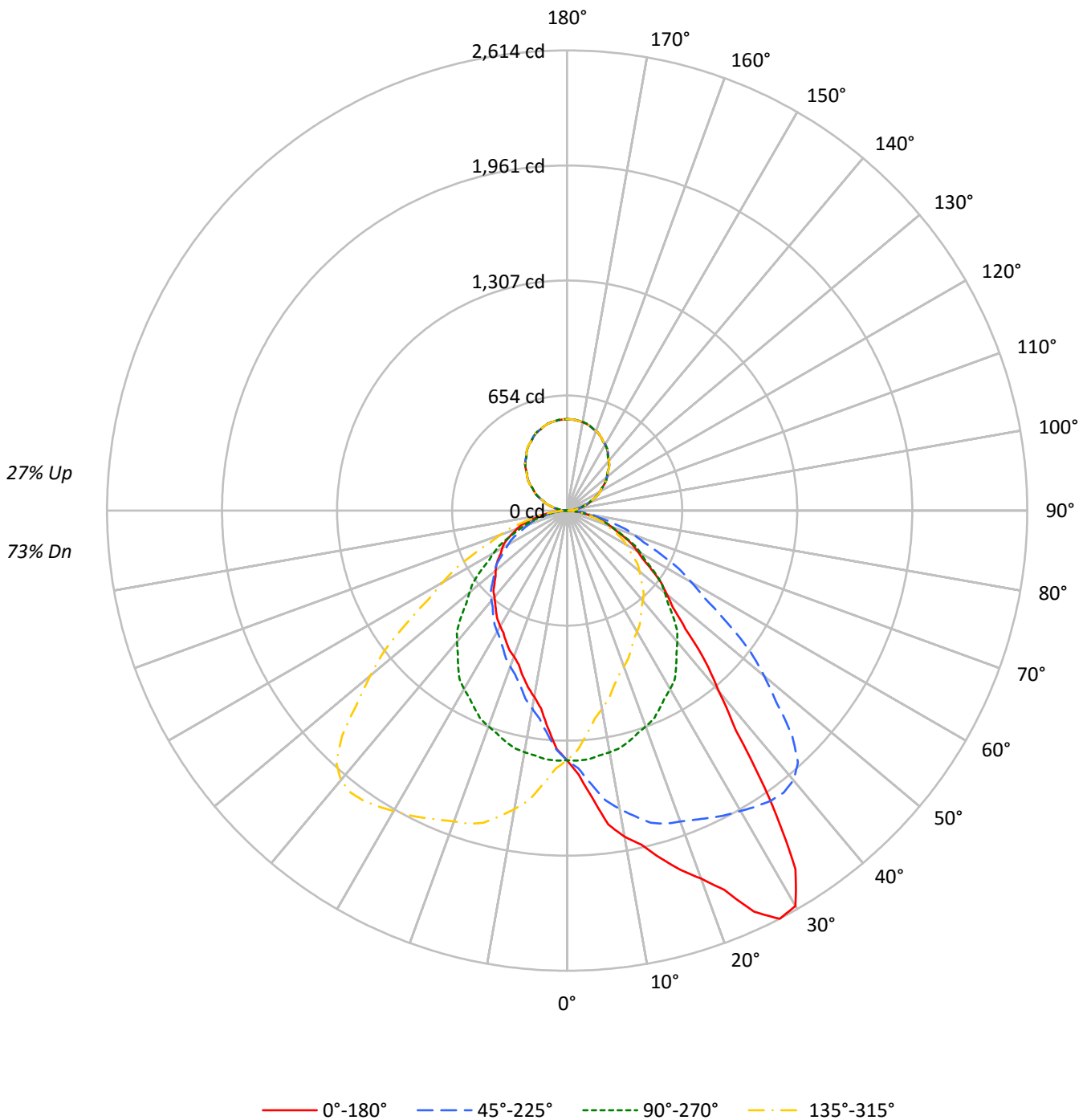
Lumens per Lamp: N/A  
Luminaire Lumens: 5451.6 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (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	113	113	113	113	107	107	107	107	96	96	96	87	87	87	78	78	78	73
1	103	99	95	92	98	94	91	88	85	83	80	77	75	73	69	68	66	63
2	94	87	81	75	89	83	77	72	75	71	67	68	64	61	61	59	56	53
3	86	77	69	63	82	73	66	61	66	61	57	60	56	52	55	51	48	45
4	79	68	60	54	75	65	58	52	59	53	48	54	49	45	49	45	42	39
5	73	61	53	46	69	58	51	45	53	47	42	49	43	39	44	40	37	34
6	67	55	46	40	64	52	45	39	48	42	37	44	39	35	40	36	32	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	26
8	58	45	37	32	55	43	36	31	40	34	29	37	31	27	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	29	24	21	19

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

	0°	90°	180°	270°
0°	9158	9158	9158	9158
5°	10605	9189	8045	9189
10°	12338	9141	7050	9141
15°	13658	9074	6503	9074
20°	15289	8968	6064	8968
25°	17910	8848	5850	8848
30°	19345	8730	5665	8730
35°	15906	8508	5542	8508
40°	11306	8200	5409	8200
45°	8685	7784	5332	7784
50°	7414	7268	5322	7268
55°	6600	6764	5368	6764
60°	5955	6212	5504	6212
65°	5500	5656	5647	5656
70°	5000	5080	5729	5080
75°	4414	4474	5677	4474
80°	3715	3649	5192	3649
85°	2942	2631	4187	2631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	2.5
10°-20°	406.4	7.5
20°-30°	660.0	12.1
30°-40°	805.0	14.8
40°-50°	732.3	13.4
50°-60°	583.3	10.7
60°-70°	406.3	7.5
70°-80°	216.7	4.0
80°-90°	55.8	1.0
90°-100°	34.8	0.6
100°-110°	102.7	1.9
110°-120°	174.0	3.2
120°-130°	229.0	4.2
130°-140°	256.6	4.7
140°-150°	251.5	4.6
150°-160°	211.2	3.9
160°-170°	140.4	2.6
170°-180°	49.1	0.9
0°-30°	1202.9	22.1
0°-40°	2008.0	36.8
0°-60°	3323.6	61.0
0°-90°	4002.4	73.4
90°-120°	311.5	5.7
90°-150°	1048.5	19.2
90°-180°	1449.0	26.6
0°-180°	5451.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1636	1417	1241	1417	1636	165
15°	2043	1357	973	1357	2043	585
25°	2513	1242	821	1242	2513	1148
35°	2017	1079	703	1079	2017	1235
45°	951	852	584	852	951	761
55°	586	601	477	601	586	528
65°	360	370	370	370	360	357
75°	177	179	228	179	177	191
85°	40	36	56	36	40	46
90°	10	0	10	0	10	7
95°	35	26	35	26	35	35
105°	100	92	100	92	100	106
115°	176	174	176	174	176	174
125°	256	254	256	254	256	228
135°	332	331	332	331	332	256
145°	402	401	402	401	402	251
155°	458	458	458	458	458	211
165°	497	498	497	498	497	140
175°	516	518	516	518	516	49
180°	519	519	519	519	519	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1499.9	1497.9	1496.0	1492.1	1495.0	1486.8	1483.0	1476.2	1468.0	1465.2	1461.8
5°	1635.8	1638.9	1641.9	1629.2	1630.4	1622.0	1602.8	1587.1	1574.5	1558.2	1546.8
7.5°	1799.6	1792.4	1791.9	1783.7	1769.6	1758.3	1738.0	1712.3	1687.4	1658.9	1635.5
10°	1881.4	1882.0	1876.6	1867.0	1851.9	1841.1	1814.6	1789.3	1758.6	1722.5	1696.7
12.5°	1943.0	1945.5	1938.8	1925.7	1918.3	1894.1	1873.4	1843.3	1806.8	1777.9	1738.6
15°	2042.7	2036.1	2031.3	2015.0	2002.4	1977.1	1944.0	1912.7	1872.9	1836.3	1799.6
17.5°	2138.8	2144.0	2135.0	2120.2	2081.0	2051.5	2007.1	1964.3	1914.8	1865.5	1821.7
20°	2224.5	2229.3	2215.5	2189.6	2142.6	2113.2	2054.8	1999.4	1942.2	1879.0	1830.9
22.5°	2331.4	2327.5	2308.8	2269.5	2228.8	2174.3	2111.1	2043.7	1972.0	1900.7	1836.7
25°	2513.4	2488.1	2476.6	2428.0	2374.4	2294.3	2207.6	2108.9	2019.8	1925.4	1843.5
27.5°	2614.2	2606.3	2593.5	2559.6	2503.3	2417.7	2315.5	2195.2	2069.6	1950.3	1843.2
30°	2594.0	2595.2	2596.4	2585.6	2549.5	2485.1	2383.4	2254.0	2104.7	1970.5	1846.5
32.5°	2414.9	2436.8	2457.7	2482.5	2492.7	2480.3	2416.6	2299.7	2146.1	1993.6	1844.6
35°	2017.4	2024.1	2092.0	2159.5	2250.9	2322.0	2369.5	2317.7	2188.3	2013.2	1842.3
37.5°	1573.1	1605.5	1652.6	1728.8	1860.8	1979.1	2131.1	2201.0	2159.3	2019.6	1838.1
40°	1341.0	1371.0	1401.8	1479.3	1590.7	1733.9	1906.7	2054.1	2088.5	1999.4	1823.6
42.5°	1161.8	1185.7	1219.8	1278.1	1371.2	1498.1	1663.0	1855.7	1974.3	1940.6	1793.3
45°	950.9	966.0	992.5	1038.8	1106.3	1205.5	1351.2	1561.8	1745.4	1806.2	1721.4
47.5°	814.0	813.9	834.5	866.5	915.1	999.4	1107.1	1272.2	1468.3	1613.4	1606.6
50°	737.9	734.9	751.1	778.8	817.3	873.3	976.2	1108.0	1296.4	1460.7	1506.5
52.5°	672.4	672.8	682.8	703.2	735.5	783.3	860.1	979.0	1140.0	1308.6	1394.7
55°	586.2	583.8	595.2	609.1	632.6	663.9	719.3	810.1	940.7	1106.8	1218.8
57.5°	507.2	513.9	518.4	528.1	547.6	568.6	615.2	681.9	785.5	928.1	1046.4
60°	461.0	467.6	471.3	480.9	496.5	514.6	550.7	604.8	692.1	814.9	932.3
62.5°	419.6	424.8	426.0	434.6	447.5	465.0	493.4	539.0	607.9	715.2	830.2
65°	359.9	359.9	362.3	371.3	377.4	393.0	414.6	447.8	503.2	586.8	684.9
67.5°	302.4	305.2	304.7	308.6	314.1	326.4	341.9	369.2	410.2	471.3	549.7
70°	264.8	267.2	266.6	269.7	275.6	283.5	296.1	322.0	351.5	403.9	471.3
72.5°	231.1	232.1	230.5	234.5	238.1	245.0	259.0	272.9	300.4	344.6	400.0
75°	176.9	178.2	179.3	181.7	185.4	189.0	196.2	210.1	228.1	261.2	296.8
77.5°	132.7	130.4	133.2	132.9	134.9	137.7	144.1	151.4	166.2	187.2	214.6
80°	99.9	100.5	100.5	101.1	104.2	105.9	111.4	116.7	128.2	143.8	163.1
82.5°	72.9	74.5	73.6	74.6	77.1	78.5	81.5	86.0	92.6	104.9	118.8
85°	39.7	36.7	37.9	39.1	39.1	39.7	42.1	44.0	47.5	52.3	57.8
87.5°	13.5	14.4	14.8	14.8	15.2	15.2	16.9	16.9	18.2	19.6	21.4
90°	9.7	9.5	9.2	8.9	8.6	8.3	7.8	7.4	7.0	6.5	5.8
92.5°	19.1	18.9	18.6	18.5	18.3	17.9	17.3	16.7	16.1	15.5	14.7
95°	34.8	34.6	34.4	34.2	34.1	33.6	33.0	32.4	31.7	31.1	30.2
97.5°	52.7	52.6	52.5	52.3	52.3	51.9	51.4	50.7	50.1	49.6	48.3
100°	66.3	66.1	65.9	65.7	65.5	65.1	64.3	63.5	62.7	61.8	60.6
102.5°	79.9	79.6	79.4	79.1	78.8	78.3	77.4	76.5	75.6	74.7	74.2
105°	100.2	100.0	99.7	99.4	99.2	98.7	98.2	97.6	97.1	96.6	96.0
107.5°	121.1	121.1	121.1	121.2	121.2	121.0	120.7	120.5	120.2	119.9	119.6
110°	136.6	136.7	136.8	136.9	137.0	136.9	136.6	136.3	136.1	135.8	135.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	151.8	151.9	152.1	152.3	152.5	152.5	152.3	152.2	152.1	151.9	151.6
115°	175.8	175.9	176.0	176.1	176.2	176.3	176.4	176.5	176.6	176.6	176.5
117.5°	199.2	199.6	200.0	200.4	200.7	200.8	200.7	200.7	200.6	200.5	200.4
120°	215.4	215.8	216.2	216.5	216.9	217.0	217.0	217.0	217.0	217.0	217.0
122.5°	231.6	231.8	232.2	232.5	232.7	232.9	233.0	233.1	233.1	233.2	233.0
125°	255.8	255.9	256.0	256.1	256.2	256.4	256.5	256.7	256.9	257.1	257.0
127.5°	279.1	279.3	279.5	279.6	279.8	280.0	280.1	280.2	280.3	280.4	280.2
130°	294.6	294.8	295.0	295.2	295.3	295.5	295.6	295.7	295.8	295.9	295.7
132.5°	309.2	309.4	309.7	310.0	310.2	310.3	310.4	310.5	310.6	310.7	310.8
135°	331.8	332.2	332.5	332.9	333.2	333.4	333.4	333.4	333.4	333.4	333.3
137.5°	353.9	354.4	354.9	355.3	355.8	356.0	355.8	355.7	355.6	355.5	355.3
140°	368.2	368.6	369.1	369.5	370.0	370.1	370.0	369.8	369.6	369.4	369.2
142.5°	381.7	382.2	382.6	383.1	383.5	383.7	383.6	383.5	383.4	383.3	383.0
145°	402.2	402.4	402.7	403.0	403.2	403.3	403.3	403.3	403.3	403.3	403.1
147.5°	419.5	420.1	420.7	421.3	422.0	422.1	422.0	421.7	421.5	421.3	421.1
150°	432.5	432.7	432.8	433.0	433.2	433.3	433.3	433.3	433.3	433.3	432.9
152.5°	443.1	443.4	443.8	444.1	444.4	444.4	444.3	444.1	443.8	443.6	443.4
155°	458.3	458.8	459.2	459.7	460.1	460.1	459.8	459.4	459.1	458.7	458.6
157.5°	471.0	471.6	472.2	472.8	473.4	473.5	473.1	472.8	472.4	472.1	472.0
160°	479.7	480.2	480.6	481.1	481.5	481.6	481.3	480.9	480.5	480.1	480.0
162.5°	487.1	487.7	488.2	488.7	489.3	489.3	488.8	488.5	488.0	487.6	487.6
165°	497.1	497.7	498.2	498.7	499.3	499.4	499.0	498.6	498.3	497.9	497.8
167.5°	505.1	505.6	506.1	506.7	507.3	507.3	506.8	506.2	505.7	505.2	505.2
170°	509.3	509.9	510.5	511.1	511.8	511.8	511.2	510.7	510.1	509.6	509.6
172.5°	512.8	513.4	513.9	514.4	515.1	515.1	514.5	514.0	513.4	512.9	512.9
175°	516.1	516.7	517.4	518.0	518.6	518.7	518.2	517.5	517.0	516.5	516.5
177.5°	518.1	518.5	519.1	519.6	520.0	520.1	519.7	519.2	518.8	518.4	518.4
180°	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1458.9	1455.5	1451.7	1444.9	1436.7	1432.4	1425.7	1421.4	1412.6	1405.4	1397.8
5°	1532.9	1517.3	1502.9	1484.2	1463.7	1450.5	1434.9	1417.4	1399.4	1380.6	1360.2
7.5°	1609.6	1581.9	1551.8	1519.5	1487.8	1458.7	1430.8	1403.6	1378.0	1347.2	1321.1
10°	1661.2	1626.2	1588.9	1545.0	1502.3	1464.9	1427.0	1393.9	1360.2	1324.1	1292.2
12.5°	1712.6	1666.2	1613.5	1565.2	1513.8	1468.7	1424.2	1381.9	1339.5	1299.6	1262.3
15°	1749.0	1708.1	1659.3	1590.7	1532.9	1471.0	1411.9	1357.2	1306.0	1261.5	1214.6
17.5°	1773.0	1720.2	1667.9	1602.0	1526.3	1457.0	1390.2	1327.5	1269.8	1213.4	1168.1
20°	1777.3	1723.1	1668.4	1603.9	1526.3	1446.9	1380.1	1304.8	1242.9	1184.5	1129.1
22.5°	1775.8	1714.5	1654.8	1588.6	1512.9	1439.7	1358.9	1282.2	1215.0	1157.5	1099.7
25°	1762.3	1696.7	1622.0	1555.2	1480.6	1402.9	1321.1	1241.6	1173.0	1107.4	1050.3
27.5°	1751.0	1665.8	1581.4	1503.4	1431.4	1360.2	1281.8	1200.5	1124.4	1057.9	1004.1
30°	1737.0	1643.7	1548.5	1467.3	1393.3	1324.1	1250.1	1170.6	1091.2	1026.2	968.4
32.5°	1724.5	1615.8	1515.4	1426.9	1348.5	1281.2	1213.0	1137.4	1059.4	993.5	935.7
35°	1700.2	1574.5	1459.6	1359.6	1275.9	1206.8	1149.6	1079.1	1007.5	943.7	888.3
37.5°	1669.6	1520.3	1397.0	1292.2	1200.5	1127.6	1074.3	1020.3	951.5	890.0	840.0
40°	1645.5	1481.8	1351.2	1244.0	1149.0	1073.1	1023.8	972.6	915.4	858.3	805.3
42.5°	1615.2	1447.2	1304.9	1189.6	1095.5	1021.6	969.8	926.4	875.9	822.6	773.5
45°	1559.4	1384.3	1230.2	1106.3	1011.1	938.3	884.8	852.2	814.3	763.8	722.2
47.5°	1477.5	1308.8	1149.4	1021.5	923.4	855.9	805.7	774.5	747.8	710.2	672.5
50°	1404.7	1252.5	1091.2	964.2	866.1	798.1	751.7	723.4	700.5	671.6	639.8
52.5°	1323.4	1181.7	1033.8	908.3	811.2	744.1	698.7	673.9	654.8	634.1	602.7
55°	1194.1	1073.7	936.5	817.3	727.6	662.0	622.3	600.7	585.1	569.4	550.1
57.5°	1051.7	957.5	836.0	727.0	644.4	584.8	547.7	526.6	514.4	506.4	495.1
60°	951.5	870.9	766.2	666.8	586.2	533.2	497.1	480.9	470.6	464.0	455.6
62.5°	858.6	792.4	695.4	604.8	534.2	484.1	451.9	436.1	426.3	423.1	416.2
65°	721.7	670.5	590.4	515.2	455.0	412.2	385.2	370.1	364.1	360.5	361.1
67.5°	586.7	555.5	491.2	427.0	379.1	343.2	321.6	310.0	306.9	302.1	302.0
70°	504.4	480.9	426.7	370.8	328.0	300.3	281.1	269.0	266.0	263.6	263.1
72.5°	431.7	411.1	364.1	319.2	280.8	256.5	240.6	233.4	228.5	227.0	226.9
75°	324.4	313.0	275.6	240.1	213.7	196.8	186.0	179.3	175.8	175.1	175.8
77.5°	230.6	220.6	196.9	171.7	155.1	142.3	133.1	130.8	126.7	126.9	126.3
80°	173.3	166.7	151.7	131.8	118.0	107.1	102.3	98.1	96.9	95.1	96.9
82.5°	125.6	118.6	108.3	95.7	84.3	77.8	72.9	71.6	70.9	70.1	70.4
85°	62.0	62.6	56.5	46.9	42.1	38.5	35.5	35.5	34.9	34.3	34.9
87.5°	22.2	21.1	19.1	17.5	15.0	13.4	12.8	13.1	11.8	11.4	12.0
90°	5.2	4.5	3.9	3.3	2.6	1.9	1.2	0.4	1.2	1.9	2.6
92.5°	14.0	13.2	12.4	11.8	11.3	10.8	10.3	9.8	10.3	10.8	11.3
95°	29.3	28.4	27.6	27.0	26.8	26.7	26.5	26.3	26.5	26.7	26.8
97.5°	47.1	45.8	44.6	44.0	43.9	43.8	43.7	43.6	43.7	43.8	43.9
100°	59.5	58.3	57.2	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
102.5°	73.6	73.0	72.4	72.0	71.6	71.2	70.8	70.4	70.8	71.2	71.6
105°	95.5	95.0	94.4	94.0	93.5	93.0	92.6	92.1	92.6	93.0	93.5
107.5°	119.1	118.7	118.3	117.9	117.4	117.0	116.5	116.1	116.5	117.0	117.4
110°	135.3	135.0	134.7	134.4	133.9	133.5	133.0	132.6	133.0	133.5	133.9





TEST NUMBER: P333431-940

CATALOG NUMBER: S125DIW-S1090D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	151.3	151.0	150.6	150.3	150.1	149.8	149.6	149.4	149.6	149.8	150.1
115°	176.3	176.1	175.9	175.7	175.3	175.0	174.5	174.2	174.5	175.0	175.3
117.5°	200.2	200.1	199.9	199.7	199.6	199.4	199.2	199.1	199.2	199.4	199.6
120°	216.9	216.8	216.7	216.4	216.0	215.5	215.1	214.6	215.1	215.5	216.0
122.5°	232.7	232.5	232.3	232.0	231.9	231.8	231.6	231.4	231.6	231.8	231.9
125°	256.9	256.8	256.7	256.4	255.8	255.3	254.8	254.2	254.8	255.3	255.8
127.5°	280.1	280.0	279.9	279.7	279.4	279.1	278.7	278.5	278.7	279.1	279.4
130°	295.5	295.3	295.2	294.8	294.4	293.9	293.5	293.0	293.5	293.9	294.4
132.5°	310.8	310.9	310.9	310.5	309.8	309.1	308.3	307.6	308.3	309.1	309.8
135°	333.2	333.1	333.1	332.8	332.3	331.7	331.2	330.6	331.2	331.7	332.3
137.5°	355.1	354.9	354.7	354.4	353.8	353.3	352.8	352.2	352.8	353.3	353.8
140°	368.9	368.6	368.4	367.9	367.5	367.0	366.6	366.1	366.6	367.0	367.5
142.5°	382.6	382.3	381.9	381.6	381.2	380.8	380.4	380.0	380.4	380.8	381.2
145°	402.8	402.5	402.3	402.0	401.6	401.3	400.9	400.6	400.9	401.3	401.6
147.5°	420.9	420.6	420.4	420.3	420.0	419.8	419.6	419.5	419.6	419.8	420.0
150°	432.6	432.2	431.9	431.7	431.8	431.9	431.9	432.0	431.9	431.9	431.8
152.5°	443.4	443.2	443.0	442.9	442.7	442.6	442.6	442.4	442.6	442.6	442.7
155°	458.5	458.4	458.3	458.3	458.3	458.3	458.3	458.3	458.3	458.3	458.3
157.5°	471.9	471.8	471.7	471.7	472.0	472.2	472.3	472.5	472.3	472.2	472.0
160°	479.9	479.8	479.7	479.8	480.1	480.4	480.7	481.0	480.7	480.4	480.1
162.5°	487.5	487.5	487.5	487.6	487.8	488.0	488.2	488.4	488.2	488.0	487.8
165°	497.8	497.7	497.6	497.6	497.8	497.9	498.1	498.3	498.1	497.9	497.8
167.5°	505.2	505.2	505.2	505.3	505.7	506.0	506.4	506.8	506.4	506.0	505.7
170°	509.6	509.6	509.6	509.8	510.1	510.5	510.9	511.2	510.9	510.5	510.1
172.5°	512.9	512.9	512.9	513.1	513.4	513.8	514.2	514.5	514.2	513.8	513.4
175°	516.5	516.5	516.5	516.7	517.0	517.4	517.7	518.2	517.7	517.4	517.0
177.5°	518.5	518.6	518.6	518.8	519.2	519.4	519.7	520.0	519.7	519.4	519.2
180°	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3



TEST NUMBER: P333431-940

CATALOG NUMBER: S125DIW-S1090D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1393.4	1388.1	1383.8	1374.1	1368.9	1361.6	1355.8	1362.1	1355.4	1358.3	1354.0
5°	1350.0	1333.1	1321.1	1303.6	1288.6	1274.7	1264.5	1262.7	1257.8	1255.4	1248.2
7.5°	1297.7	1276.7	1256.0	1233.1	1213.8	1194.2	1181.7	1171.4	1164.5	1155.5	1149.3
10°	1266.9	1238.6	1214.6	1186.9	1162.8	1141.7	1124.9	1116.4	1108.7	1097.2	1093.0
12.5°	1228.9	1199.6	1170.3	1140.7	1117.5	1094.0	1079.6	1066.8	1061.4	1048.6	1047.2
15°	1183.3	1139.3	1110.4	1080.3	1048.5	1029.2	1017.2	1003.3	997.3	988.3	981.6
17.5°	1128.8	1089.6	1053.5	1022.3	995.0	978.7	963.9	954.3	944.0	938.1	927.2
20°	1089.4	1052.0	1015.9	982.8	961.8	943.1	931.0	922.0	911.2	908.2	897.4
22.5°	1056.1	1014.9	980.3	952.5	929.5	908.5	895.5	889.3	881.8	872.5	870.4
25°	1002.1	959.4	929.9	902.2	881.7	862.5	853.5	845.6	838.4	831.8	829.4
27.5°	955.4	917.2	882.2	857.2	839.4	821.8	813.9	804.3	799.1	793.7	787.2
30°	922.7	883.5	852.8	828.8	809.5	793.9	785.4	778.8	774.0	769.2	765.5
32.5°	888.9	852.7	823.0	799.4	780.2	768.3	760.9	756.2	750.9	745.1	740.6
35°	844.5	804.7	775.8	755.4	740.3	731.3	722.8	718.6	712.6	712.6	707.8
37.5°	794.2	759.9	734.4	715.8	702.2	694.2	685.0	682.2	678.3	675.7	674.0
40°	764.4	732.5	708.4	689.7	675.3	668.7	661.5	656.7	654.2	651.2	650.0
42.5°	733.5	703.1	680.0	662.8	650.2	644.6	637.8	634.5	629.6	625.7	625.0
45°	686.7	657.2	636.1	622.3	611.4	604.8	600.7	593.4	591.0	586.2	585.6
47.5°	642.3	614.0	593.3	582.0	572.5	567.0	560.4	553.2	550.5	548.0	547.8
50°	609.1	583.2	563.9	553.1	544.1	536.3	529.7	524.9	523.0	523.0	524.2
52.5°	575.4	553.3	537.0	523.7	515.2	506.8	500.8	497.8	495.1	498.0	500.2
55°	526.0	503.7	491.7	479.1	470.6	461.0	458.0	456.8	455.0	459.9	462.3
57.5°	473.8	458.2	444.1	431.5	423.9	418.4	414.3	413.6	417.0	419.3	427.0
60°	440.6	422.5	409.8	400.2	391.2	387.6	386.4	385.2	387.6	394.2	404.5
62.5°	403.9	389.3	375.7	368.5	361.9	355.8	355.6	356.3	361.1	368.7	378.9
65°	350.3	337.6	328.6	320.2	314.8	311.1	312.4	314.8	320.2	330.4	341.9
67.5°	295.8	287.1	279.0	272.2	267.0	267.0	268.2	271.8	278.2	290.0	300.4
70°	260.6	251.0	244.3	241.4	237.1	234.7	238.4	244.3	249.8	260.6	269.7
72.5°	225.4	217.3	212.1	210.1	208.2	206.3	207.5	214.0	221.3	232.2	242.6
75°	173.3	170.3	166.7	164.3	162.5	163.7	164.9	170.9	176.9	188.4	200.5
77.5°	126.5	123.4	121.2	120.6	119.7	120.3	123.6	128.0	133.9	142.3	151.4
80°	95.7	94.5	93.3	92.6	92.6	93.3	98.1	101.1	106.6	114.3	121.5
82.5°	69.7	68.9	68.8	68.6	69.1	69.2	72.1	76.1	80.5	86.4	92.6
85°	36.7	35.5	37.3	37.9	36.7	38.5	39.7	42.1	44.0	46.9	49.9
87.5°	12.7	13.8	13.5	14.0	14.2	15.2	14.9	16.9	17.9	19.0	18.5
90°	3.3	3.9	4.5	5.2	5.8	6.5	7.0	7.4	7.8	8.3	8.6
92.5°	11.8	12.4	13.2	14.0	14.7	15.5	16.1	16.7	17.3	17.9	18.3
95°	27.0	27.6	28.4	29.3	30.2	31.1	31.7	32.4	33.0	33.6	34.1
97.5°	44.0	44.6	45.8	47.1	48.3	49.6	50.1	50.7	51.4	51.9	52.3
100°	56.6	57.2	58.3	59.5	60.6	61.8	62.7	63.5	64.3	65.1	65.5
102.5°	72.0	72.4	73.0	73.6	74.2	74.7	75.6	76.5	77.4	78.3	78.8
105°	94.0	94.4	95.0	95.5	96.0	96.6	97.1	97.6	98.2	98.7	99.2
107.5°	117.9	118.3	118.7	119.1	119.6	119.9	120.2	120.5	120.7	121.0	121.2
110°	134.4	134.7	135.0	135.3	135.5	135.8	136.1	136.3	136.6	136.9	137.0



TEST NUMBER: P333431-940

CATALOG NUMBER: S125DIW-S1090D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	150.3	150.6	151.0	151.3	151.6	151.9	152.1	152.2	152.3	152.5	152.5
115°	175.7	175.9	176.1	176.3	176.5	176.6	176.6	176.5	176.4	176.3	176.2
117.5°	199.7	199.9	200.1	200.2	200.4	200.5	200.6	200.7	200.7	200.8	200.7
120°	216.4	216.7	216.8	216.9	217.0	217.0	217.0	217.0	217.0	217.0	216.9
122.5°	232.0	232.3	232.5	232.7	233.0	233.2	233.1	233.1	233.0	232.9	232.7
125°	256.4	256.7	256.8	256.9	257.0	257.1	256.9	256.7	256.5	256.4	256.2
127.5°	279.7	279.9	280.0	280.1	280.2	280.4	280.3	280.2	280.1	280.0	279.8
130°	294.8	295.2	295.3	295.5	295.7	295.9	295.8	295.7	295.6	295.5	295.3
132.5°	310.5	310.9	310.9	310.8	310.8	310.7	310.6	310.5	310.4	310.3	310.2
135°	332.8	333.1	333.1	333.2	333.3	333.4	333.4	333.4	333.4	333.4	333.2
137.5°	354.4	354.7	354.9	355.1	355.3	355.5	355.6	355.7	355.8	356.0	355.8
140°	367.9	368.4	368.6	368.9	369.2	369.4	369.6	369.8	370.0	370.1	370.0
142.5°	381.6	381.9	382.3	382.6	383.0	383.3	383.4	383.5	383.6	383.7	383.5
145°	402.0	402.3	402.5	402.8	403.1	403.3	403.3	403.3	403.3	403.3	403.2
147.5°	420.3	420.4	420.6	420.9	421.1	421.3	421.5	421.7	422.0	422.1	422.0
150°	431.7	431.9	432.2	432.6	432.9	433.3	433.3	433.3	433.3	433.3	433.2
152.5°	442.9	443.0	443.2	443.4	443.4	443.6	443.8	444.1	444.3	444.4	444.4
155°	458.3	458.3	458.4	458.5	458.6	458.7	459.1	459.4	459.8	460.1	460.1
157.5°	471.7	471.7	471.8	471.9	472.0	472.1	472.4	472.8	473.1	473.5	473.4
160°	479.8	479.7	479.8	479.9	480.0	480.1	480.5	480.9	481.3	481.6	481.5
162.5°	487.6	487.5	487.5	487.5	487.6	487.6	488.0	488.5	488.8	489.3	489.3
165°	497.6	497.6	497.7	497.8	497.8	497.9	498.3	498.6	499.0	499.4	499.3
167.5°	505.3	505.2	505.2	505.2	505.2	505.2	505.7	506.2	506.8	507.3	507.3
170°	509.8	509.6	509.6	509.6	509.6	509.6	510.1	510.7	511.2	511.8	511.8
172.5°	513.1	512.9	512.9	512.9	512.9	512.9	513.4	514.0	514.5	515.1	515.1
175°	516.7	516.5	516.5	516.5	516.5	516.5	517.0	517.5	518.2	518.7	518.6
177.5°	518.8	518.6	518.6	518.5	518.4	518.4	518.8	519.2	519.7	520.1	520.0
180°	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3



TEST NUMBER: P333431-940

CATALOG NUMBER: S125DIW-S1090D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1351.0	1354.4	1351.6	1355.4	1351.6	1354.4	1351.0	1354.0	1358.3	1355.4	1362.1
5°	1245.3	1239.8	1243.4	1241.0	1243.4	1239.8	1245.3	1248.2	1255.4	1257.8	1262.7
7.5°	1147.5	1142.4	1136.4	1133.6	1136.4	1142.4	1147.5	1149.3	1155.5	1164.5	1171.4
10°	1086.4	1079.8	1079.1	1075.0	1079.1	1079.8	1086.4	1093.0	1097.2	1108.7	1116.4
12.5°	1041.6	1035.5	1028.6	1026.8	1028.6	1035.5	1041.6	1047.2	1048.6	1061.4	1066.8
15°	978.0	973.2	969.0	972.6	969.0	973.2	978.0	981.6	988.3	997.3	1003.3
17.5°	925.1	921.2	920.5	916.1	920.5	921.2	925.1	927.2	938.1	944.0	954.3
20°	892.0	888.9	890.2	882.3	890.2	888.9	892.0	897.4	908.2	911.2	922.0
22.5°	865.5	859.6	858.9	857.3	858.9	859.6	865.5	870.4	872.5	881.8	889.3
25°	823.9	820.9	818.0	820.9	818.0	820.9	823.9	829.4	831.8	838.4	845.6
27.5°	787.7	784.1	783.3	783.6	783.3	784.1	787.7	787.2	793.7	799.1	804.3
30°	765.5	759.6	760.2	759.6	760.2	759.6	765.5	765.5	769.2	774.0	778.8
32.5°	741.5	737.4	736.6	735.5	736.6	737.4	741.5	740.6	745.1	750.9	756.2
35°	706.0	706.0	702.9	702.9	702.9	706.0	706.0	707.8	712.6	712.6	718.6
37.5°	672.6	672.0	670.2	670.5	670.2	672.0	672.6	674.0	675.7	678.3	682.2
40°	647.6	647.0	645.2	641.6	645.2	647.0	647.6	650.0	651.2	654.2	656.7
42.5°	623.5	621.5	620.6	619.5	620.6	621.5	623.5	625.0	625.7	629.6	634.5
45°	585.6	585.6	584.4	583.8	584.4	585.6	585.6	585.6	586.2	591.0	593.4
47.5°	548.8	549.8	552.1	551.8	552.1	549.8	548.8	547.8	548.0	550.5	553.2
50°	526.6	527.3	529.1	529.7	529.1	527.3	526.6	524.2	523.0	523.0	524.9
52.5°	502.0	505.6	507.8	507.5	507.8	505.6	502.0	500.2	498.0	495.1	497.8
55°	467.6	471.9	476.1	476.7	476.1	471.9	467.6	462.3	459.9	455.0	456.8
57.5°	433.5	439.4	443.9	445.4	443.9	439.4	433.5	427.0	419.3	417.0	413.6
60°	410.5	418.3	423.7	426.1	423.7	418.3	410.5	404.5	394.2	387.6	385.2
62.5°	388.3	397.1	402.5	403.0	402.5	397.1	388.3	378.9	368.7	361.1	356.3
65°	352.0	361.1	366.0	369.5	366.0	361.1	352.0	341.9	330.4	320.2	314.8
67.5°	313.1	322.1	327.4	330.3	327.4	322.1	313.1	300.4	290.0	278.2	271.8
70°	284.7	293.7	301.0	303.4	301.0	293.7	284.7	269.7	260.6	249.8	244.3
72.5°	256.7	264.8	270.6	273.5	270.6	264.8	256.7	242.6	232.2	221.3	214.0
75°	208.2	219.1	224.5	227.5	224.5	219.1	208.2	200.5	188.4	176.9	170.9
77.5°	160.6	170.4	173.7	175.2	173.7	170.4	160.6	151.4	142.3	133.9	128.0
80°	128.8	134.8	139.0	139.6	139.0	134.8	128.8	121.5	114.3	106.6	101.1
82.5°	99.0	104.0	105.3	106.9	105.3	104.0	99.0	92.6	86.4	80.5	76.1
85°	54.1	56.5	57.2	56.5	57.2	56.5	54.1	49.9	46.9	44.0	42.1
87.5°	19.6	19.2	19.3	20.2	19.3	19.2	19.6	18.5	19.0	17.9	16.9
90°	8.9	9.2	9.5	9.7	9.5	9.2	8.9	8.6	8.3	7.8	7.4
92.5°	18.5	18.6	18.9	19.1	18.9	18.6	18.5	18.3	17.9	17.3	16.7
95°	34.2	34.4	34.6	34.8	34.6	34.4	34.2	34.1	33.6	33.0	32.4
97.5°	52.3	52.5	52.6	52.7	52.6	52.5	52.3	52.3	51.9	51.4	50.7
100°	65.7	65.9	66.1	66.3	66.1	65.9	65.7	65.5	65.1	64.3	63.5
102.5°	79.1	79.4	79.6	79.9	79.6	79.4	79.1	78.8	78.3	77.4	76.5
105°	99.4	99.7	100.0	100.2	100.0	99.7	99.4	99.2	98.7	98.2	97.6
107.5°	121.2	121.1	121.1	121.1	121.1	121.1	121.2	121.2	121.0	120.7	120.5
110°	136.9	136.8	136.7	136.6	136.7	136.8	136.9	137.0	136.9	136.6	136.3



TEST NUMBER: P333431-940

CATALOG NUMBER: S125DIW-S1090D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	152.3	152.1	151.9	151.8	151.9	152.1	152.3	152.5	152.5	152.3	152.2
115°	176.1	176.0	175.9	175.8	175.9	176.0	176.1	176.2	176.3	176.4	176.5
117.5°	200.4	200.0	199.6	199.2	199.6	200.0	200.4	200.7	200.8	200.7	200.7
120°	216.5	216.2	215.8	215.4	215.8	216.2	216.5	216.9	217.0	217.0	217.0
122.5°	232.5	232.2	231.8	231.6	231.8	232.2	232.5	232.7	232.9	233.0	233.1
125°	256.1	256.0	255.9	255.8	255.9	256.0	256.1	256.2	256.4	256.5	256.7
127.5°	279.6	279.5	279.3	279.1	279.3	279.5	279.6	279.8	280.0	280.1	280.2
130°	295.2	295.0	294.8	294.6	294.8	295.0	295.2	295.3	295.5	295.6	295.7
132.5°	310.0	309.7	309.4	309.2	309.4	309.7	310.0	310.2	310.3	310.4	310.5
135°	332.9	332.5	332.2	331.8	332.2	332.5	332.9	333.2	333.4	333.4	333.4
137.5°	355.3	354.9	354.4	353.9	354.4	354.9	355.3	355.8	356.0	355.8	355.7
140°	369.5	369.1	368.6	368.2	368.6	369.1	369.5	370.0	370.1	370.0	369.8
142.5°	383.1	382.6	382.2	381.7	382.2	382.6	383.1	383.5	383.7	383.6	383.5
145°	403.0	402.7	402.4	402.2	402.4	402.7	403.0	403.2	403.3	403.3	403.3
147.5°	421.3	420.7	420.1	419.5	420.1	420.7	421.3	422.0	422.1	422.0	421.7
150°	433.0	432.8	432.7	432.5	432.7	432.8	433.0	433.2	433.3	433.3	433.3
152.5°	444.1	443.8	443.4	443.1	443.4	443.8	444.1	444.4	444.4	444.3	444.1
155°	459.7	459.2	458.8	458.3	458.8	459.2	459.7	460.1	460.1	459.8	459.4
157.5°	472.8	472.2	471.6	471.0	471.6	472.2	472.8	473.4	473.5	473.1	472.8
160°	481.1	480.6	480.2	479.7	480.2	480.6	481.1	481.5	481.6	481.3	480.9
162.5°	488.7	488.2	487.7	487.1	487.7	488.2	488.7	489.3	489.3	488.8	488.5
165°	498.7	498.2	497.7	497.1	497.7	498.2	498.7	499.3	499.4	499.0	498.6
167.5°	506.7	506.1	505.6	505.1	505.6	506.1	506.7	507.3	507.3	506.8	506.2
170°	511.1	510.5	509.9	509.3	509.9	510.5	511.1	511.8	511.8	511.2	510.7
172.5°	514.4	513.9	513.4	512.8	513.4	513.9	514.4	515.1	515.1	514.5	514.0
175°	518.0	517.4	516.7	516.1	516.7	517.4	518.0	518.6	518.7	518.2	517.5
177.5°	519.6	519.1	518.5	518.1	518.5	519.1	519.6	520.0	520.1	519.7	519.2
180°	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3



TEST NUMBER: P333431-940

CATALOG NUMBER: S125DIW-S1090D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1355.8	1361.6	1368.9	1374.1	1383.8	1388.1	1393.4	1397.8	1405.4	1412.6	1421.4
5°	1264.5	1274.7	1288.6	1303.6	1321.1	1333.1	1350.0	1360.2	1380.6	1399.4	1417.4
7.5°	1181.7	1194.2	1213.8	1233.1	1256.0	1276.7	1297.7	1321.1	1347.2	1378.0	1403.6
10°	1124.9	1141.7	1162.8	1186.9	1214.6	1238.6	1266.9	1292.2	1324.1	1360.2	1393.9
12.5°	1079.6	1094.0	1117.5	1140.7	1170.3	1199.6	1228.9	1262.3	1299.6	1339.5	1381.9
15°	1017.2	1029.2	1048.5	1080.3	1110.4	1139.3	1183.3	1214.6	1261.5	1306.0	1357.2
17.5°	963.9	978.7	995.0	1022.3	1053.5	1089.6	1128.8	1168.1	1213.4	1269.8	1327.5
20°	931.0	943.1	961.8	982.8	1015.9	1052.0	1089.4	1129.1	1184.5	1242.9	1304.8
22.5°	895.5	908.5	929.5	952.5	980.3	1014.9	1056.1	1099.7	1157.5	1215.0	1282.2
25°	853.5	862.5	881.7	902.2	929.9	959.4	1002.1	1050.3	1107.4	1173.0	1241.6
27.5°	813.9	821.8	839.4	857.2	882.2	917.2	955.4	1004.1	1057.9	1124.4	1200.5
30°	785.4	793.9	809.5	828.8	852.8	883.5	922.7	968.4	1026.2	1091.2	1170.6
32.5°	760.9	768.3	780.2	799.4	823.0	852.7	888.9	935.7	993.5	1059.4	1137.4
35°	722.8	731.3	740.3	755.4	775.8	804.7	844.5	888.3	943.7	1007.5	1079.1
37.5°	685.0	694.2	702.2	715.8	734.4	759.9	794.2	840.0	890.0	951.5	1020.3
40°	661.5	668.7	675.3	689.7	708.4	732.5	764.4	805.3	858.3	915.4	972.6
42.5°	637.8	644.6	650.2	662.8	680.0	703.1	733.5	773.5	822.6	875.9	926.4
45°	600.7	604.8	611.4	622.3	636.1	657.2	686.7	722.2	763.8	814.3	852.2
47.5°	560.4	567.0	572.5	582.0	593.3	614.0	642.3	672.5	710.2	747.8	774.5
50°	529.7	536.3	544.1	553.1	563.9	583.2	609.1	639.8	671.6	700.5	723.4
52.5°	500.8	506.8	515.2	523.7	537.0	553.3	575.4	602.7	634.1	654.8	673.9
55°	458.0	461.0	470.6	479.1	491.7	503.7	526.0	550.1	569.4	585.1	600.7
57.5°	414.3	418.4	423.9	431.5	444.1	458.2	473.8	495.1	506.4	514.4	526.6
60°	386.4	387.6	391.2	400.2	409.8	422.5	440.6	455.6	464.0	470.6	480.9
62.5°	355.6	355.8	361.9	368.5	375.7	389.3	403.9	416.2	423.1	426.3	436.1
65°	312.4	311.1	314.8	320.2	328.6	337.6	350.3	361.1	360.5	364.1	370.1
67.5°	268.2	267.0	267.0	272.2	279.0	287.1	295.8	302.0	302.1	306.9	310.0
70°	238.4	234.7	237.1	241.4	244.3	251.0	260.6	263.1	263.6	266.0	269.0
72.5°	207.5	206.3	208.2	210.1	212.1	217.3	225.4	226.9	227.0	228.5	233.4
75°	164.9	163.7	162.5	164.3	166.7	170.3	173.3	175.8	175.1	175.8	179.3
77.5°	123.6	120.3	119.7	120.6	121.2	123.4	126.5	126.3	126.9	126.7	130.8
80°	98.1	93.3	92.6	92.6	93.3	94.5	95.7	96.9	95.1	96.9	98.1
82.5°	72.1	69.2	69.1	68.6	68.8	68.9	69.7	70.4	70.1	70.9	71.6
85°	39.7	38.5	36.7	37.9	37.3	35.5	36.7	34.9	34.3	34.9	35.5
87.5°	14.9	15.2	14.2	14.0	13.5	13.8	12.7	12.0	11.4	11.8	13.1
90°	7.0	6.5	5.8	5.2	4.5	3.9	3.3	2.6	1.9	1.2	0.4
92.5°	16.1	15.5	14.7	14.0	13.2	12.4	11.8	11.3	10.8	10.3	9.8
95°	31.7	31.1	30.2	29.3	28.4	27.6	27.0	26.8	26.7	26.5	26.3
97.5°	50.1	49.6	48.3	47.1	45.8	44.6	44.0	43.9	43.8	43.7	43.6
100°	62.7	61.8	60.6	59.5	58.3	57.2	56.6	56.6	56.6	56.6	56.6
102.5°	75.6	74.7	74.2	73.6	73.0	72.4	72.0	71.6	71.2	70.8	70.4
105°	97.1	96.6	96.0	95.5	95.0	94.4	94.0	93.5	93.0	92.6	92.1
107.5°	120.2	119.9	119.6	119.1	118.7	118.3	117.9	117.4	117.0	116.5	116.1
110°	136.1	135.8	135.5	135.3	135.0	134.7	134.4	133.9	133.5	133.0	132.6



TEST NUMBER: P333431-940

CATALOG NUMBER: S125DIW-S1090D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	152.1	151.9	151.6	151.3	151.0	150.6	150.3	150.1	149.8	149.6	149.4
115°	176.6	176.6	176.5	176.3	176.1	175.9	175.7	175.3	175.0	174.5	174.2
117.5°	200.6	200.5	200.4	200.2	200.1	199.9	199.7	199.6	199.4	199.2	199.1
120°	217.0	217.0	217.0	216.9	216.8	216.7	216.4	216.0	215.5	215.1	214.6
122.5°	233.1	233.2	233.0	232.7	232.5	232.3	232.0	231.9	231.8	231.6	231.4
125°	256.9	257.1	257.0	256.9	256.8	256.7	256.4	255.8	255.3	254.8	254.2
127.5°	280.3	280.4	280.2	280.1	280.0	279.9	279.7	279.4	279.1	278.7	278.5
130°	295.8	295.9	295.7	295.5	295.3	295.2	294.8	294.4	293.9	293.5	293.0
132.5°	310.6	310.7	310.8	310.8	310.9	310.9	310.5	309.8	309.1	308.3	307.6
135°	333.4	333.4	333.3	333.2	333.1	333.1	332.8	332.3	331.7	331.2	330.6
137.5°	355.6	355.5	355.3	355.1	354.9	354.7	354.4	353.8	353.3	352.8	352.2
140°	369.6	369.4	369.2	368.9	368.6	368.4	367.9	367.5	367.0	366.6	366.1
142.5°	383.4	383.3	383.0	382.6	382.3	381.9	381.6	381.2	380.8	380.4	380.0
145°	403.3	403.3	403.1	402.8	402.5	402.3	402.0	401.6	401.3	400.9	400.6
147.5°	421.5	421.3	421.1	420.9	420.6	420.4	420.3	420.0	419.8	419.6	419.5
150°	433.3	433.3	432.9	432.6	432.2	431.9	431.7	431.8	431.9	431.9	432.0
152.5°	443.8	443.6	443.4	443.4	443.2	443.0	442.9	442.7	442.6	442.6	442.4
155°	459.1	458.7	458.6	458.5	458.4	458.3	458.3	458.3	458.3	458.3	458.3
157.5°	472.4	472.1	472.0	471.9	471.8	471.7	471.7	472.0	472.2	472.3	472.5
160°	480.5	480.1	480.0	479.9	479.8	479.7	479.8	480.1	480.4	480.7	481.0
162.5°	488.0	487.6	487.6	487.5	487.5	487.5	487.6	487.8	488.0	488.2	488.4
165°	498.3	497.9	497.8	497.8	497.7	497.6	497.6	497.8	497.9	498.1	498.3
167.5°	505.7	505.2	505.2	505.2	505.2	505.2	505.3	505.7	506.0	506.4	506.8
170°	510.1	509.6	509.6	509.6	509.6	509.6	509.8	510.1	510.5	510.9	511.2
172.5°	513.4	512.9	512.9	512.9	512.9	512.9	513.1	513.4	513.8	514.2	514.5
175°	517.0	516.5	516.5	516.5	516.5	516.5	516.7	517.0	517.4	517.7	518.2
177.5°	518.8	518.4	518.4	518.5	518.6	518.6	518.8	519.2	519.4	519.7	520.0
180°	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3



TEST NUMBER: P333431-940

CATALOG NUMBER: S125DIW-S1090D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1425.7	1432.4	1436.7	1444.9	1451.7	1455.5	1458.9	1461.8	1465.2	1468.0	1476.2
5°	1434.9	1450.5	1463.7	1484.2	1502.9	1517.3	1532.9	1546.8	1558.2	1574.5	1587.1
7.5°	1430.8	1458.7	1487.8	1519.5	1551.8	1581.9	1609.6	1635.5	1658.9	1687.4	1712.3
10°	1427.0	1464.9	1502.3	1545.0	1588.9	1626.2	1661.2	1696.7	1722.5	1758.6	1789.3
12.5°	1424.2	1468.7	1513.8	1565.2	1613.5	1666.2	1712.6	1738.6	1777.9	1806.8	1843.3
15°	1411.9	1471.0	1532.9	1590.7	1659.3	1708.1	1749.0	1799.6	1836.3	1872.9	1912.7
17.5°	1390.2	1457.0	1526.3	1602.0	1667.9	1720.2	1773.0	1821.7	1865.5	1914.8	1964.3
20°	1380.1	1446.9	1526.3	1603.9	1668.4	1723.1	1777.3	1830.9	1879.0	1942.2	1999.4
22.5°	1358.9	1439.7	1512.9	1588.6	1654.8	1714.5	1775.8	1836.7	1900.7	1972.0	2043.7
25°	1321.1	1402.9	1480.6	1555.2	1622.0	1696.7	1762.3	1843.5	1925.4	2019.8	2108.9
27.5°	1281.8	1360.2	1431.4	1503.4	1581.4	1665.8	1751.0	1843.2	1950.3	2069.6	2195.2
30°	1250.1	1324.1	1393.3	1467.3	1548.5	1643.7	1737.0	1846.5	1970.5	2104.7	2254.0
32.5°	1213.0	1281.2	1348.5	1426.9	1515.4	1615.8	1724.5	1844.6	1993.6	2146.1	2299.7
35°	1149.6	1206.8	1275.9	1359.6	1459.6	1574.5	1700.2	1842.3	2013.2	2188.3	2317.7
37.5°	1074.3	1127.6	1200.5	1292.2	1397.0	1520.3	1669.6	1838.1	2019.6	2159.3	2201.0
40°	1023.8	1073.1	1149.0	1244.0	1351.2	1481.8	1645.5	1823.6	1999.4	2088.5	2054.1
42.5°	969.8	1021.6	1095.5	1189.6	1304.9	1447.2	1615.2	1793.3	1940.6	1974.3	1855.7
45°	884.8	938.3	1011.1	1106.3	1230.2	1384.3	1559.4	1721.4	1806.2	1745.4	1561.8
47.5°	805.7	855.9	923.4	1021.5	1149.4	1308.8	1477.5	1606.6	1613.4	1468.3	1272.2
50°	751.7	798.1	866.1	964.2	1091.2	1252.5	1404.7	1506.5	1460.7	1296.4	1108.0
52.5°	698.7	744.1	811.2	908.3	1033.8	1181.7	1323.4	1394.7	1308.6	1140.0	979.0
55°	622.3	662.0	727.6	817.3	936.5	1073.7	1194.1	1218.8	1106.8	940.7	810.1
57.5°	547.7	584.8	644.4	727.0	836.0	957.5	1051.7	1046.4	928.1	785.5	681.9
60°	497.1	533.2	586.2	666.8	766.2	870.9	951.5	932.3	814.9	692.1	604.8
62.5°	451.9	484.1	534.2	604.8	695.4	792.4	858.6	830.2	715.2	607.9	539.0
65°	385.2	412.2	455.0	515.2	590.4	670.5	721.7	684.9	586.8	503.2	447.8
67.5°	321.6	343.2	379.1	427.0	491.2	555.5	586.7	549.7	471.3	410.2	369.2
70°	281.1	300.3	328.0	370.8	426.7	480.9	504.4	471.3	403.9	351.5	322.0
72.5°	240.6	256.5	280.8	319.2	364.1	411.1	431.7	400.0	344.6	300.4	272.9
75°	186.0	196.8	213.7	240.1	275.6	313.0	324.4	296.8	261.2	228.1	210.1
77.5°	133.1	142.3	155.1	171.7	196.9	220.6	230.6	214.6	187.2	166.2	151.4
80°	102.3	107.1	118.0	131.8	151.7	166.7	173.3	163.1	143.8	128.2	116.7
82.5°	72.9	77.8	84.3	95.7	108.3	118.6	125.6	118.8	104.9	92.6	86.0
85°	35.5	38.5	42.1	46.9	56.5	62.6	62.0	57.8	52.3	47.5	44.0
87.5°	12.8	13.4	15.0	17.5	19.1	21.1	22.2	21.4	19.6	18.2	16.9
90°	1.2	1.9	2.6	3.3	3.9	4.5	5.2	5.8	6.5	7.0	7.4
92.5°	10.3	10.8	11.3	11.8	12.4	13.2	14.0	14.7	15.5	16.1	16.7
95°	26.5	26.7	26.8	27.0	27.6	28.4	29.3	30.2	31.1	31.7	32.4
97.5°	43.7	43.8	43.9	44.0	44.6	45.8	47.1	48.3	49.6	50.1	50.7
100°	56.6	56.6	56.6	56.6	57.2	58.3	59.5	60.6	61.8	62.7	63.5
102.5°	70.8	71.2	71.6	72.0	72.4	73.0	73.6	74.2	74.7	75.6	76.5
105°	92.6	93.0	93.5	94.0	94.4	95.0	95.5	96.0	96.6	97.1	97.6
107.5°	116.5	117.0	117.4	117.9	118.3	118.7	119.1	119.6	119.9	120.2	120.5
110°	133.0	133.5	133.9	134.4	134.7	135.0	135.3	135.5	135.8	136.1	136.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	149.6	149.8	150.1	150.3	150.6	151.0	151.3	151.6	151.9	152.1	152.2
115°	174.5	175.0	175.3	175.7	175.9	176.1	176.3	176.5	176.6	176.6	176.5
117.5°	199.2	199.4	199.6	199.7	199.9	200.1	200.2	200.4	200.5	200.6	200.7
120°	215.1	215.5	216.0	216.4	216.7	216.8	216.9	217.0	217.0	217.0	217.0
122.5°	231.6	231.8	231.9	232.0	232.3	232.5	232.7	233.0	233.2	233.1	233.1
125°	254.8	255.3	255.8	256.4	256.7	256.8	256.9	257.0	257.1	256.9	256.7
127.5°	278.7	279.1	279.4	279.7	279.9	280.0	280.1	280.2	280.4	280.3	280.2
130°	293.5	293.9	294.4	294.8	295.2	295.3	295.5	295.7	295.9	295.8	295.7
132.5°	308.3	309.1	309.8	310.5	310.9	310.9	310.8	310.8	310.7	310.6	310.5
135°	331.2	331.7	332.3	332.8	333.1	333.1	333.2	333.3	333.4	333.4	333.4
137.5°	352.8	353.3	353.8	354.4	354.7	354.9	355.1	355.3	355.5	355.6	355.7
140°	366.6	367.0	367.5	367.9	368.4	368.6	368.9	369.2	369.4	369.6	369.8
142.5°	380.4	380.8	381.2	381.6	381.9	382.3	382.6	383.0	383.3	383.4	383.5
145°	400.9	401.3	401.6	402.0	402.3	402.5	402.8	403.1	403.3	403.3	403.3
147.5°	419.6	419.8	420.0	420.3	420.4	420.6	420.9	421.1	421.3	421.5	421.7
150°	431.9	431.9	431.8	431.7	431.9	432.2	432.6	432.9	433.3	433.3	433.3
152.5°	442.6	442.6	442.7	442.9	443.0	443.2	443.4	443.4	443.6	443.8	444.1
155°	458.3	458.3	458.3	458.3	458.3	458.4	458.5	458.6	458.7	459.1	459.4
157.5°	472.3	472.2	472.0	471.7	471.7	471.8	471.9	472.0	472.1	472.4	472.8
160°	480.7	480.4	480.1	479.8	479.7	479.8	479.9	480.0	480.1	480.5	480.9
162.5°	488.2	488.0	487.8	487.6	487.5	487.5	487.5	487.6	487.6	488.0	488.5
165°	498.1	497.9	497.8	497.6	497.6	497.7	497.8	497.8	497.9	498.3	498.6
167.5°	506.4	506.0	505.7	505.3	505.2	505.2	505.2	505.2	505.2	505.7	506.2
170°	510.9	510.5	510.1	509.8	509.6	509.6	509.6	509.6	509.6	510.1	510.7
172.5°	514.2	513.8	513.4	513.1	512.9	512.9	512.9	512.9	512.9	513.4	514.0
175°	517.7	517.4	517.0	516.7	516.5	516.5	516.5	516.5	516.5	517.0	517.5
177.5°	519.7	519.4	519.2	518.8	518.6	518.6	518.5	518.4	518.4	518.8	519.2
180°	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1483.0	1486.8	1495.0	1492.1	1496.0	1497.9	1499.9
5°	1602.8	1622.0	1630.4	1629.2	1641.9	1638.9	1635.8
7.5°	1738.0	1758.3	1769.6	1783.7	1791.9	1792.4	1799.6
10°	1814.6	1841.1	1851.9	1867.0	1876.6	1882.0	1881.4
12.5°	1873.4	1894.1	1918.3	1925.7	1938.8	1945.5	1943.0
15°	1944.0	1977.1	2002.4	2015.0	2031.3	2036.1	2042.7
17.5°	2007.1	2051.5	2081.0	2120.2	2135.0	2144.0	2138.8
20°	2054.8	2113.2	2142.6	2189.6	2215.5	2229.3	2224.5
22.5°	2111.1	2174.3	2228.8	2269.5	2308.8	2327.5	2331.4
25°	2207.6	2294.3	2374.4	2428.0	2476.6	2488.1	2513.4
27.5°	2315.5	2417.7	2503.3	2559.6	2593.5	2606.3	2614.2
30°	2383.4	2485.1	2549.5	2585.6	2596.4	2595.2	2594.0
32.5°	2416.6	2480.3	2492.7	2482.5	2457.7	2436.8	2414.9
35°	2369.5	2322.0	2250.9	2159.5	2092.0	2024.1	2017.4
37.5°	2131.1	1979.1	1860.8	1728.8	1652.6	1605.5	1573.1
40°	1906.7	1733.9	1590.7	1479.3	1401.8	1371.0	1341.0
42.5°	1663.0	1498.1	1371.2	1278.1	1219.8	1185.7	1161.8
45°	1351.2	1205.5	1106.3	1038.8	992.5	966.0	950.9
47.5°	1107.1	999.4	915.1	866.5	834.5	813.9	814.0
50°	976.2	873.3	817.3	778.8	751.1	734.9	737.9
52.5°	860.1	783.3	735.5	703.2	682.8	672.8	672.4
55°	719.3	663.9	632.6	609.1	595.2	583.8	586.2
57.5°	615.2	568.6	547.6	528.1	518.4	513.9	507.2
60°	550.7	514.6	496.5	480.9	471.3	467.6	461.0
62.5°	493.4	465.0	447.5	434.6	426.0	424.8	419.6
65°	414.6	393.0	377.4	371.3	362.3	359.9	359.9
67.5°	341.9	326.4	314.1	308.6	304.7	305.2	302.4
70°	296.1	283.5	275.6	269.7	266.6	267.2	264.8
72.5°	259.0	245.0	238.1	234.5	230.5	232.1	231.1
75°	196.2	189.0	185.4	181.7	179.3	178.2	176.9
77.5°	144.1	137.7	134.9	132.9	133.2	130.4	132.7
80°	111.4	105.9	104.2	101.1	100.5	100.5	99.9
82.5°	81.5	78.5	77.1	74.6	73.6	74.5	72.9
85°	42.1	39.7	39.1	39.1	37.9	36.7	39.7
87.5°	16.9	15.2	15.2	14.8	14.8	14.4	13.5
90°	7.8	8.3	8.6	8.9	9.2	9.5	9.7
92.5°	17.3	17.9	18.3	18.5	18.6	18.9	19.1
95°	33.0	33.6	34.1	34.2	34.4	34.6	34.8
97.5°	51.4	51.9	52.3	52.3	52.5	52.6	52.7
100°	64.3	65.1	65.5	65.7	65.9	66.1	66.3
102.5°	77.4	78.3	78.8	79.1	79.4	79.6	79.9
105°	98.2	98.7	99.2	99.4	99.7	100.0	100.2
107.5°	120.7	121.0	121.2	121.2	121.1	121.1	121.1
110°	136.6	136.9	137.0	136.9	136.8	136.7	136.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	152.3	152.5	152.5	152.3	152.1	151.9	151.8
115°	176.4	176.3	176.2	176.1	176.0	175.9	175.8
117.5°	200.7	200.8	200.7	200.4	200.0	199.6	199.2
120°	217.0	217.0	216.9	216.5	216.2	215.8	215.4
122.5°	233.0	232.9	232.7	232.5	232.2	231.8	231.6
125°	256.5	256.4	256.2	256.1	256.0	255.9	255.8
127.5°	280.1	280.0	279.8	279.6	279.5	279.3	279.1
130°	295.6	295.5	295.3	295.2	295.0	294.8	294.6
132.5°	310.4	310.3	310.2	310.0	309.7	309.4	309.2
135°	333.4	333.4	333.2	332.9	332.5	332.2	331.8
137.5°	355.8	356.0	355.8	355.3	354.9	354.4	353.9
140°	370.0	370.1	370.0	369.5	369.1	368.6	368.2
142.5°	383.6	383.7	383.5	383.1	382.6	382.2	381.7
145°	403.3	403.3	403.2	403.0	402.7	402.4	402.2
147.5°	422.0	422.1	422.0	421.3	420.7	420.1	419.5
150°	433.3	433.3	433.2	433.0	432.8	432.7	432.5
152.5°	444.3	444.4	444.4	444.1	443.8	443.4	443.1
155°	459.8	460.1	460.1	459.7	459.2	458.8	458.3
157.5°	473.1	473.5	473.4	472.8	472.2	471.6	471.0
160°	481.3	481.6	481.5	481.1	480.6	480.2	479.7
162.5°	488.8	489.3	489.3	488.7	488.2	487.7	487.1
165°	499.0	499.4	499.3	498.7	498.2	497.7	497.1
167.5°	506.8	507.3	507.3	506.7	506.1	505.6	505.1
170°	511.2	511.8	511.8	511.1	510.5	509.9	509.3
172.5°	514.5	515.1	515.1	514.4	513.9	513.4	512.8
175°	518.2	518.7	518.6	518.0	517.4	516.7	516.1
177.5°	519.7	520.1	520.0	519.6	519.1	518.5	518.1
180°	519.3	519.3	519.3	519.3	519.3	519.3	519.3

(END OF REPORT)