

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: P333076-940

Luminaire Tested: **S124RDIW-S1020D470U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333076-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S1020D470U940-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

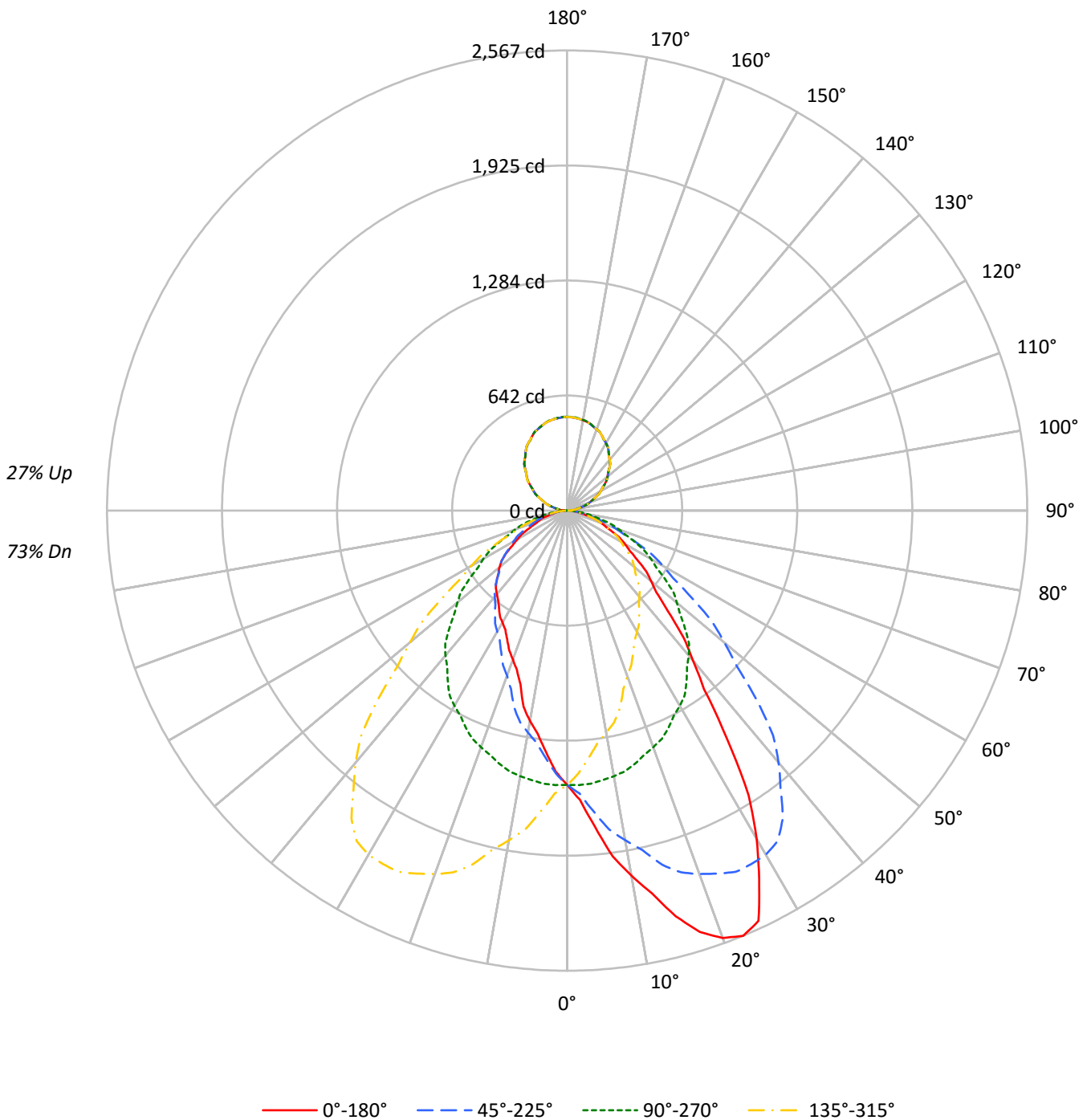
Lumens per Lamp: N/A  
Luminaire Lumens: 5318.6 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (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



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73				
1	104	99	96	92	98	94	91	88	85	83	80	77	75	73	69	68	66	63				
2	95	88	82	76	90	83	78	73	76	71	68	68	65	62	62	59	57	54				
3	87	78	70	65	82	74	67	62	67	62	58	61	57	53	55	52	49	46				
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	50	46	43	40				
5	74	62	54	48	70	59	52	46	54	48	43	50	45	41	45	41	38	35				
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34	31				
7	63	51	43	37	60	49	41	36	45	39	34	41	36	32	38	33	30	28				
8	59	46	39	33	56	45	37	32	41	35	31	38	33	29	35	30	27	25				
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23				
10	51	39	32	27	49	38	31	26	35	29	25	32	27	24	30	26	22	21				

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

	0°	90°	180°	270°
0°	12352	12352	12352	12352
5°	14327	12388	10950	12388
10°	16948	12336	9773	12336
15°	19578	12221	8398	12221
20°	21798	12064	7594	12064
25°	22502	11909	7050	11909
30°	19699	11723	6723	11723
35°	15334	11446	6525	11446
40°	11499	11129	6418	11129
45°	9079	10620	6361	10620
50°	7665	10034	6179	10034
55°	6681	9388	5847	9388
60°	6011	8719	5176	8719
65°	5299	7996	4451	7996
70°	4773	7246	4015	7246
75°	3999	6422	3425	6422
80°	3384	5472	3208	5472
85°	2862	4279	2862	4279



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	2.8
10°-20°	447.2	8.4
20°-30°	699.4	13.2
30°-40°	777.5	14.6
40°-50°	689.9	13.0
50°-60°	537.6	10.1
60°-70°	351.9	6.6
70°-80°	173.1	3.3
80°-90°	44.3	0.8
90°-100°	34.5	0.6
100°-110°	102.1	1.9
110°-120°	173.3	3.3
120°-130°	228.5	4.3
130°-140°	256.6	4.8
140°-150°	252.1	4.7
150°-160°	212.1	4.0
160°-170°	141.1	2.7
170°-180°	49.4	0.9
0°-30°	1294.9	24.3
0°-40°	2072.4	39.0
0°-60°	3299.8	62.0
0°-90°	3869.1	72.7
90°-120°	309.8	5.8
90°-150°	1047.0	19.7
90°-180°	1450.0	27.3
0°-180°	5318.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1530	1530	1530	1530	1530	
5°	1768	1529	1351	1529	1768	179
15°	2342	1462	1005	1462	2342	666
25°	2526	1337	792	1337	2526	1121
35°	1556	1161	662	1161	1556	975
45°	795	930	557	930	795	630
55°	475	667	415	667	475	432
65°	277	419	233	419	277	279
75°	128	206	110	206	128	141
85°	31	46	31	46	31	35
90°	12	1	12	1	12	8
95°	32	24	32	24	32	33
105°	99	94	99	94	99	104
115°	175	176	175	176	175	173
125°	255	256	255	256	255	227
135°	331	331	331	331	331	256
145°	402	402	402	402	402	252
155°	460	461	460	461	460	212
165°	500	501	500	501	500	141
175°	519	522	519	522	519	49
180°	522	522	522	522	522	



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1613.8	1618.3	1613.8	1613.4	1608.5	1607.0	1605.0	1598.6	1586.7	1579.8	1581.3
5°	1768.0	1783.3	1774.8	1773.5	1760.0	1746.4	1737.8	1718.1	1697.1	1682.9	1671.2
7.5°	1946.2	1955.1	1949.7	1941.1	1919.1	1906.7	1886.7	1860.6	1823.1	1794.3	1768.1
10°	2067.5	2074.9	2072.5	2056.5	2040.4	2007.8	1989.2	1952.9	1905.4	1867.9	1832.6
12.5°	2186.9	2194.8	2173.1	2173.8	2143.5	2117.7	2088.4	2042.6	1987.8	1939.3	1895.3
15°	2342.5	2332.6	2332.6	2320.3	2286.3	2250.7	2220.4	2172.4	2103.3	2045.3	1984.3
17.5°	2464.3	2467.7	2462.7	2433.6	2407.0	2370.0	2314.6	2258.5	2194.4	2116.7	2054.2
20°	2537.3	2537.3	2531.7	2512.0	2477.5	2438.0	2378.3	2317.2	2235.9	2157.6	2087.3
22.5°	2566.9	2568.8	2562.3	2546.0	2515.0	2476.5	2425.5	2363.6	2279.7	2191.6	2104.5
25°	2526.2	2537.9	2539.1	2534.8	2525.6	2502.1	2458.4	2394.9	2319.7	2224.1	2130.4
27.5°	2319.3	2334.1	2347.1	2368.4	2396.7	2411.5	2413.5	2381.2	2315.6	2223.7	2129.3
30°	2113.2	2125.5	2165.6	2218.0	2258.6	2295.6	2327.7	2336.3	2299.4	2216.7	2117.5
32.5°	1884.4	1901.1	1941.2	1997.5	2065.3	2128.0	2199.9	2236.7	2235.7	2186.1	2094.3
35°	1555.9	1568.3	1605.3	1664.4	1745.8	1838.9	1952.9	2041.7	2102.0	2097.7	2041.7
37.5°	1254.8	1268.7	1306.1	1355.2	1434.1	1549.3	1659.7	1782.0	1893.7	1956.5	1937.7
40°	1091.1	1091.7	1128.1	1178.7	1252.6	1353.1	1473.3	1608.9	1733.4	1835.1	1854.8
42.5°	961.9	962.0	986.1	1040.5	1093.9	1188.4	1303.1	1437.8	1583.5	1701.0	1753.3
45°	795.2	800.8	820.5	853.2	895.1	975.2	1067.0	1192.2	1355.6	1494.9	1581.8
47.5°	673.4	681.5	694.1	720.8	754.1	807.5	883.5	996.0	1128.8	1282.1	1405.8
50°	610.3	611.5	627.5	642.3	671.3	713.8	780.4	874.1	996.1	1143.5	1280.9
52.5°	556.1	555.8	565.4	584.2	607.7	640.9	694.6	779.9	888.1	1020.2	1162.1
55°	474.7	477.8	485.2	499.9	517.8	541.3	583.8	647.9	733.0	845.8	974.6
57.5°	412.8	414.4	420.2	426.4	442.8	459.9	491.8	536.3	608.1	700.4	820.5
60°	372.3	372.9	374.8	384.1	397.0	413.0	434.6	472.2	532.6	617.1	712.0
62.5°	332.9	333.9	336.8	343.6	353.6	364.7	387.3	417.5	467.5	539.7	625.2
65°	277.4	278.0	282.3	284.8	292.8	302.6	319.3	339.7	374.2	434.6	499.4
67.5°	231.8	231.8	232.0	235.3	240.9	247.4	257.4	273.7	299.7	336.8	393.9
70°	202.2	202.2	203.4	205.3	208.4	213.9	219.5	231.8	250.9	281.1	324.9
72.5°	174.6	175.0	176.3	176.6	178.3	182.8	186.9	194.8	209.0	231.8	267.2
75°	128.2	130.1	133.1	135.6	138.7	138.1	142.4	147.3	151.7	165.2	185.6
77.5°	95.4	94.4	94.8	96.9	97.3	97.9	100.9	104.8	108.0	114.4	121.7
80°	72.8	72.8	74.5	75.2	74.5	75.2	78.3	80.2	81.4	83.8	90.6
82.5°	55.0	56.0	55.4	56.0	56.4	57.0	59.6	59.9	61.2	62.2	65.0
85°	30.9	31.5	32.0	30.9	30.9	30.9	32.0	32.6	33.9	33.3	34.5
87.5°	13.3	12.8	13.2	13.2	13.6	13.0	13.5	14.4	13.2	13.6	13.5
90°	12.1	11.9	11.8	11.6	11.4	11.1	10.5	10.0	9.5	8.9	8.2
92.5°	17.9	17.8	17.7	17.7	17.5	17.3	16.9	16.7	16.3	16.0	15.5
95°	31.9	31.9	31.9	31.9	31.9	31.7	31.5	31.2	30.9	30.7	30.1
97.5°	50.0	50.0	50.0	50.0	50.0	49.8	49.6	49.2	48.9	48.6	47.8
100°	62.6	62.6	62.6	62.6	62.6	62.5	62.3	62.2	62.0	61.8	61.0
102.5°	76.9	76.8	76.7	76.6	76.6	76.4	76.2	75.9	75.6	75.4	74.6
105°	98.6	98.4	98.1	97.8	97.6	97.3	97.0	96.8	96.4	96.1	95.8
107.5°	119.8	119.8	119.8	119.8	119.8	119.8	119.5	119.2	119.0	118.7	118.7
110°	134.9	134.6	134.4	134.1	133.8	133.8	134.0	134.2	134.4	134.6	134.6



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	150.4	150.4	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.4	150.5
115°	174.6	174.7	174.8	174.9	175.0	175.0	175.1	175.2	175.3	175.4	175.6
117.5°	197.5	197.7	197.9	198.0	198.2	198.5	198.8	199.1	199.4	199.7	199.8
120°	215.0	214.8	214.6	214.5	214.3	214.4	214.8	215.3	215.7	216.2	216.4
122.5°	229.5	229.8	230.2	230.5	230.8	231.1	231.4	231.8	232.0	232.4	232.5
125°	254.6	254.8	254.9	255.1	255.3	255.5	255.7	255.8	256.0	256.2	256.3
127.5°	277.8	277.9	278.0	278.2	278.3	278.5	278.7	278.8	279.0	279.2	279.4
130°	292.9	293.3	293.6	294.0	294.4	294.6	294.8	295.0	295.2	295.3	295.3
132.5°	309.2	309.2	309.4	309.5	309.7	309.9	310.0	310.2	310.4	310.6	310.7
135°	331.4	331.6	331.9	332.2	332.4	332.6	332.8	333.0	333.1	333.3	333.3
137.5°	354.7	354.6	354.5	354.5	354.5	354.5	354.8	355.0	355.3	355.5	355.3
140°	368.9	369.0	369.1	369.2	369.3	369.3	369.4	369.5	369.6	369.7	369.7
142.5°	383.2	383.2	383.2	383.2	383.2	383.3	383.3	383.3	383.3	383.3	383.3
145°	402.4	402.7	403.0	403.2	403.5	403.7	403.8	403.9	403.9	404.0	403.9
147.5°	422.0	422.1	422.2	422.3	422.4	422.5	422.5	422.6	422.7	422.8	422.8
150°	434.0	434.1	434.2	434.3	434.4	434.4	434.4	434.4	434.4	434.4	434.4
152.5°	445.0	445.2	445.4	445.7	445.9	445.9	445.7	445.5	445.2	445.1	445.0
155°	460.2	460.6	460.9	461.3	461.6	461.6	461.3	460.9	460.6	460.2	460.3
157.5°	473.9	474.2	474.5	474.8	475.1	475.1	474.8	474.6	474.3	474.0	474.0
160°	481.6	482.1	482.6	483.0	483.5	483.6	483.3	483.0	482.8	482.5	482.6
162.5°	489.7	490.2	490.6	491.1	491.5	491.5	491.1	490.5	490.1	489.5	489.6
165°	500.2	500.6	501.0	501.3	501.7	501.6	501.1	500.5	500.0	499.4	499.6
167.5°	507.7	508.3	508.9	509.4	510.0	510.0	509.4	508.9	508.4	507.8	507.8
170°	511.9	512.6	513.2	513.8	514.4	514.5	514.0	513.4	512.9	512.4	512.3
172.5°	515.5	516.1	516.7	517.4	518.0	518.0	517.5	516.8	516.2	515.6	515.6
175°	519.2	519.9	520.5	521.1	521.7	521.7	521.1	520.5	519.9	519.2	519.3
177.5°	521.2	521.7	522.4	522.9	523.4	523.5	523.0	522.5	522.0	521.5	521.5
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1576.4	1569.5	1566.0	1558.1	1548.7	1543.8	1539.4	1532.9	1524.6	1515.7	1509.3
5°	1656.4	1641.6	1623.1	1600.9	1581.2	1562.1	1545.4	1528.7	1509.7	1490.0	1470.3
7.5°	1738.5	1709.4	1677.9	1641.6	1606.2	1574.0	1544.4	1516.1	1484.0	1455.3	1429.1
10°	1795.7	1756.2	1712.4	1666.3	1620.0	1579.9	1540.5	1504.8	1465.3	1430.1	1400.5
12.5°	1842.1	1795.7	1743.0	1685.5	1629.9	1581.4	1536.1	1489.4	1444.6	1406.5	1367.0
15°	1919.0	1855.5	1784.6	1715.6	1643.4	1577.4	1516.4	1462.2	1411.0	1357.5	1319.8
17.5°	1971.8	1896.6	1810.4	1727.4	1642.2	1564.4	1494.0	1429.4	1370.4	1315.6	1270.9
20°	2003.4	1920.2	1824.7	1730.4	1634.8	1551.6	1475.8	1404.3	1343.3	1284.1	1237.8
22.5°	2021.2	1929.1	1824.7	1725.9	1626.9	1536.8	1453.6	1379.1	1312.7	1253.5	1202.3
25°	2026.9	1928.2	1821.6	1708.2	1599.6	1504.1	1417.8	1337.0	1263.1	1203.9	1149.7
27.5°	2019.0	1902.8	1793.6	1677.2	1565.3	1464.5	1373.9	1289.1	1215.0	1151.6	1095.9
30°	2007.2	1882.6	1765.5	1644.7	1531.2	1434.5	1338.9	1257.6	1180.4	1114.5	1058.5
32.5°	1981.5	1858.0	1732.0	1608.2	1493.3	1393.6	1302.9	1221.0	1145.5	1078.1	1018.5
35°	1930.7	1805.5	1668.7	1541.8	1428.9	1325.3	1240.3	1161.4	1089.2	1017.2	954.2
37.5°	1863.8	1735.9	1599.8	1460.7	1347.8	1250.0	1172.0	1097.9	1027.5	961.6	892.0
40°	1800.6	1684.1	1543.6	1405.5	1289.6	1195.2	1123.2	1056.0	985.1	919.7	850.1
42.5°	1724.2	1625.0	1482.9	1344.3	1229.9	1139.1	1071.8	1006.1	941.6	878.3	805.7
45°	1596.6	1521.3	1388.2	1255.1	1139.8	1049.8	988.2	930.2	873.5	813.1	744.7
47.5°	1450.4	1399.5	1284.5	1148.2	1041.5	960.6	901.0	853.6	805.7	745.3	685.3
50°	1348.8	1316.1	1205.1	1080.7	978.9	904.3	843.3	798.9	758.8	700.9	647.3
52.5°	1240.3	1222.9	1129.2	1010.1	911.9	838.7	786.6	746.6	706.1	658.0	607.8
55°	1075.0	1084.3	1004.8	901.9	809.4	747.8	700.3	667.0	632.5	591.8	552.9
57.5°	906.2	940.0	886.5	796.2	709.5	652.6	616.8	588.8	559.8	526.1	492.9
60°	805.0	833.4	803.3	723.7	647.9	594.9	561.6	540.0	511.0	480.2	455.0
62.5°	706.4	736.7	718.9	654.7	584.2	538.7	509.3	489.2	467.6	440.8	414.5
65°	582.6	602.3	593.6	549.3	499.4	460.5	433.4	418.6	398.9	379.2	355.7
67.5°	446.2	484.3	479.2	455.7	412.5	382.2	364.4	351.3	333.4	318.7	302.8
70°	366.8	401.9	401.3	382.2	358.7	330.4	318.1	307.0	291.0	276.8	263.9
72.5°	300.2	332.4	337.2	322.5	306.5	285.1	273.2	265.6	250.0	240.3	229.8
75°	210.2	233.6	239.8	239.8	232.4	221.3	210.8	205.9	194.8	186.2	180.0
77.5°	137.9	152.7	162.3	164.4	165.6	161.8	153.3	149.8	141.2	138.2	132.3
80°	97.4	107.3	118.3	122.1	125.1	123.9	120.2	117.7	109.8	106.6	104.2
82.5°	67.3	72.8	81.9	90.0	89.2	92.4	89.2	87.2	81.1	80.0	77.6
85°	35.1	35.8	37.0	42.5	45.7	46.8	47.4	46.2	44.4	44.4	40.0
87.5°	13.3	12.7	13.6	13.4	13.6	15.4	16.7	17.0	15.7	14.4	13.2
90°	7.5	6.8	6.0	5.2	4.2	3.2	2.2	1.2	2.2	3.2	4.2
92.5°	15.0	14.5	14.0	13.2	12.0	10.9	9.8	8.6	9.8	10.9	12.0
95°	29.4	28.8	28.2	27.5	26.7	25.9	25.1	24.3	25.1	25.9	26.7
97.5°	47.1	46.4	45.7	44.9	44.3	43.6	43.0	42.4	43.0	43.6	44.3
100°	60.2	59.4	58.6	58.1	57.6	57.2	56.9	56.5	56.9	57.2	57.6
102.5°	73.9	73.2	72.5	72.1	71.9	71.7	71.6	71.4	71.6	71.7	71.9
105°	95.4	95.1	94.7	94.5	94.4	94.3	94.3	94.2	94.3	94.3	94.4
107.5°	118.6	118.6	118.5	118.4	118.3	118.2	118.1	118.0	118.1	118.2	118.3
110°	134.7	134.8	134.9	134.8	134.6	134.5	134.3	134.1	134.3	134.5	134.6





TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	150.7	150.9	151.1	151.1	151.1	151.1	151.0	151.0	151.0	151.1	151.1
115°	175.8	175.9	176.1	176.2	176.2	176.2	176.2	176.2	176.2	176.2	176.2
117.5°	199.9	200.1	200.2	200.2	200.2	200.1	200.0	199.9	200.0	200.1	200.2
120°	216.7	217.0	217.2	217.2	216.9	216.5	216.2	215.8	216.2	216.5	216.9
122.5°	232.6	232.7	232.8	232.8	232.6	232.6	232.4	232.3	232.4	232.6	232.6
125°	256.4	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5
127.5°	279.5	279.6	279.8	279.7	279.5	279.2	278.9	278.7	278.9	279.2	279.5
130°	295.3	295.3	295.3	295.2	295.0	294.7	294.4	294.2	294.4	294.7	295.0
132.5°	310.7	310.8	310.9	310.8	310.6	310.4	310.2	310.0	310.2	310.4	310.6
135°	333.3	333.3	333.3	333.1	332.5	332.0	331.4	330.9	331.4	332.0	332.5
137.5°	355.3	355.1	354.9	354.7	354.5	354.2	354.0	353.7	354.0	354.2	354.5
140°	369.7	369.7	369.7	369.6	369.4	369.3	369.1	368.9	369.1	369.3	369.4
142.5°	383.4	383.5	383.6	383.5	383.3	383.2	383.0	382.8	383.0	383.2	383.3
145°	403.9	403.8	403.7	403.5	403.1	402.8	402.4	402.1	402.4	402.8	403.1
147.5°	422.8	422.9	423.0	422.8	422.4	422.0	421.5	421.2	421.5	422.0	422.4
150°	434.4	434.4	434.4	434.2	433.8	433.5	433.1	432.7	433.1	433.5	433.8
152.5°	444.9	444.8	444.8	444.6	444.4	444.2	444.0	443.7	444.0	444.2	444.4
155°	460.4	460.5	460.6	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
157.5°	474.1	474.1	474.1	474.2	474.4	474.6	474.7	474.8	474.7	474.6	474.4
160°	482.7	482.8	482.9	483.0	483.0	483.1	483.2	483.3	483.2	483.1	483.0
162.5°	489.7	489.8	489.9	490.1	490.4	490.5	490.8	491.1	490.8	490.5	490.4
165°	499.8	500.0	500.2	500.3	500.6	500.9	501.1	501.4	501.1	500.9	500.6
167.5°	507.8	507.7	507.7	507.9	508.4	508.7	509.1	509.4	509.1	508.7	508.4
170°	512.2	512.1	512.0	512.2	512.6	513.1	513.5	514.0	513.5	513.1	512.6
172.5°	515.6	515.5	515.5	515.7	516.1	516.5	516.8	517.2	516.8	516.5	516.1
175°	519.4	519.5	519.6	519.9	520.3	520.8	521.2	521.7	521.2	520.8	520.3
177.5°	521.5	521.5	521.5	521.7	522.0	522.4	522.7	523.1	522.7	522.4	522.0
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1502.4	1497.4	1491.0	1483.6	1474.8	1466.9	1463.5	1466.4	1467.8	1463.9	1463.5
5°	1456.7	1441.3	1428.9	1410.4	1395.6	1383.3	1374.7	1371.0	1372.2	1362.4	1359.9
7.5°	1405.2	1387.0	1366.8	1344.8	1324.4	1306.3	1296.7	1291.6	1281.1	1276.7	1269.2
10°	1372.2	1347.6	1327.8	1301.9	1278.5	1257.0	1246.4	1237.8	1227.4	1222.4	1211.9
12.5°	1338.2	1309.6	1287.9	1261.0	1237.1	1211.0	1201.0	1185.1	1168.7	1158.3	1144.9
15°	1290.2	1255.7	1229.2	1197.1	1168.8	1139.2	1112.7	1083.1	1072.0	1048.6	1035.0
17.5°	1234.1	1199.1	1166.3	1123.3	1079.5	1042.8	1014.5	986.1	969.2	954.2	947.4
20°	1197.1	1165.1	1119.5	1069.5	1020.8	980.2	957.3	938.9	920.3	909.9	902.5
22.5°	1162.1	1121.1	1068.2	1014.3	965.6	933.8	914.4	895.5	880.4	870.4	860.6
25°	1103.4	1049.8	993.7	932.1	898.8	871.0	850.1	834.6	825.5	812.4	807.5
27.5°	1043.1	978.2	916.3	874.9	840.2	814.8	796.6	785.0	773.3	765.0	758.6
30°	996.8	930.9	875.4	835.9	800.8	779.8	765.0	751.4	742.2	735.4	730.5
32.5°	950.9	884.9	838.4	795.9	768.2	747.8	732.0	721.8	714.6	705.8	702.8
35°	884.6	826.0	785.3	747.2	718.8	700.3	688.0	677.4	671.3	668.9	667.0
37.5°	820.8	772.9	729.2	697.9	672.5	658.0	643.5	638.3	634.1	629.6	631.6
40°	780.4	735.4	696.6	663.3	642.9	627.0	618.3	612.2	608.4	608.4	608.4
42.5°	745.4	701.4	663.5	633.7	613.3	599.8	590.2	585.0	583.8	583.3	586.2
45°	691.1	650.3	612.2	587.5	570.2	556.6	551.1	546.8	546.8	549.3	549.8
47.5°	637.1	599.1	568.4	540.7	525.0	516.5	511.7	509.4	509.7	512.1	515.0
50°	604.1	566.5	536.3	511.7	496.9	488.8	484.6	483.3	484.6	484.6	488.8
52.5°	568.1	534.5	504.7	484.0	467.3	459.8	457.4	455.7	456.4	458.4	460.2
55°	515.3	485.2	456.8	437.0	424.7	419.8	414.3	414.8	413.7	414.8	414.8
57.5°	462.4	435.3	408.9	393.3	382.5	375.3	369.3	371.0	369.2	368.9	367.9
60°	428.5	398.9	377.9	363.7	351.3	345.2	339.7	340.9	339.0	337.8	335.4
62.5°	391.5	366.8	346.8	333.1	323.2	316.1	310.6	309.3	305.1	300.9	295.4
65°	337.8	317.4	299.6	286.7	277.4	271.9	267.5	263.9	254.6	244.7	239.8
67.5°	285.7	271.0	254.3	243.3	235.9	228.5	220.3	214.0	205.4	200.0	196.9
70°	252.1	237.9	223.7	213.3	205.3	198.5	189.2	184.9	178.8	176.3	173.3
72.5°	220.1	206.9	193.7	184.2	175.7	170.4	163.1	158.8	156.0	155.1	152.0
75°	171.4	160.9	151.1	142.4	135.6	131.9	128.9	125.7	124.5	119.0	115.9
77.5°	125.0	118.2	111.9	105.8	100.9	98.5	92.6	89.0	86.9	84.4	83.7
80°	97.4	92.5	86.3	82.6	75.8	73.4	70.9	70.3	69.6	69.0	68.4
82.5°	73.2	68.3	62.2	59.9	58.1	56.6	55.1	54.5	53.9	54.2	54.1
85°	37.0	34.5	34.5	33.9	33.3	32.6	32.0	32.0	31.5	32.0	31.5
87.5°	13.4	13.0	13.2	12.3	13.0	13.1	12.8	12.8	13.5	12.6	12.7
90°	5.2	6.0	6.8	7.5	8.2	8.9	9.5	10.0	10.5	11.1	11.4
92.5°	13.2	14.0	14.5	15.0	15.5	16.0	16.3	16.7	16.9	17.3	17.5
95°	27.5	28.2	28.8	29.4	30.1	30.7	30.9	31.2	31.5	31.7	31.9
97.5°	44.9	45.7	46.4	47.1	47.8	48.6	48.9	49.2	49.6	49.8	50.0
100°	58.1	58.6	59.4	60.2	61.0	61.8	62.0	62.2	62.3	62.5	62.6
102.5°	72.1	72.5	73.2	73.9	74.6	75.4	75.6	75.9	76.2	76.4	76.6
105°	94.5	94.7	95.1	95.4	95.8	96.1	96.4	96.8	97.0	97.3	97.6
107.5°	118.4	118.5	118.6	118.6	118.7	118.7	119.0	119.2	119.5	119.8	119.8
110°	134.8	134.9	134.8	134.7	134.6	134.6	134.4	134.2	134.0	133.8	133.8



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	151.1	151.1	150.9	150.7	150.5	150.4	150.3	150.3	150.3	150.3	150.3
115°	176.2	176.1	175.9	175.8	175.6	175.4	175.3	175.2	175.1	175.0	175.0
117.5°	200.2	200.2	200.1	199.9	199.8	199.7	199.4	199.1	198.8	198.5	198.2
120°	217.2	217.2	217.0	216.7	216.4	216.2	215.7	215.3	214.8	214.4	214.3
122.5°	232.8	232.8	232.7	232.6	232.5	232.4	232.0	231.8	231.4	231.1	230.8
125°	256.5	256.5	256.5	256.4	256.3	256.2	256.0	255.8	255.7	255.5	255.3
127.5°	279.7	279.8	279.6	279.5	279.4	279.2	279.0	278.8	278.7	278.5	278.3
130°	295.2	295.3	295.3	295.3	295.3	295.3	295.2	295.0	294.8	294.6	294.4
132.5°	310.8	310.9	310.8	310.7	310.7	310.6	310.4	310.2	310.0	309.9	309.7
135°	333.1	333.3	333.3	333.3	333.3	333.3	333.1	333.0	332.8	332.6	332.4
137.5°	354.7	354.9	355.1	355.3	355.3	355.5	355.3	355.0	354.8	354.5	354.5
140°	369.6	369.7	369.7	369.7	369.7	369.7	369.6	369.5	369.4	369.3	369.3
142.5°	383.5	383.6	383.5	383.4	383.3	383.3	383.3	383.3	383.3	383.3	383.2
145°	403.5	403.7	403.8	403.9	403.9	404.0	403.9	403.9	403.8	403.7	403.5
147.5°	422.8	423.0	422.9	422.8	422.8	422.8	422.7	422.6	422.5	422.5	422.4
150°	434.2	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4
152.5°	444.6	444.8	444.8	444.9	445.0	445.1	445.2	445.5	445.7	445.9	445.9
155°	460.7	460.6	460.5	460.4	460.3	460.2	460.6	460.9	461.3	461.6	461.6
157.5°	474.2	474.1	474.1	474.1	474.0	474.0	474.3	474.6	474.8	475.1	475.1
160°	483.0	482.9	482.8	482.7	482.6	482.5	482.8	483.0	483.3	483.6	483.5
162.5°	490.1	489.9	489.8	489.7	489.6	489.5	490.1	490.5	491.1	491.5	491.5
165°	500.3	500.2	500.0	499.8	499.6	499.4	500.0	500.5	501.1	501.6	501.7
167.5°	507.9	507.7	507.7	507.8	507.8	507.8	508.4	508.9	509.4	510.0	510.0
170°	512.2	512.0	512.1	512.2	512.3	512.4	512.9	513.4	514.0	514.5	514.4
172.5°	515.7	515.5	515.5	515.6	515.6	515.6	516.2	516.8	517.5	518.0	518.0
175°	519.9	519.6	519.5	519.4	519.3	519.2	519.9	520.5	521.1	521.7	521.7
177.5°	521.7	521.5	521.5	521.5	521.5	521.5	522.0	522.5	523.0	523.5	523.4
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1460.4	1461.4	1458.0	1457.1	1458.0	1461.4	1460.4	1463.5	1463.9	1467.8	1466.4
5°	1355.0	1353.7	1350.6	1351.2	1350.6	1353.7	1355.0	1359.9	1362.4	1372.2	1371.0
7.5°	1264.7	1259.9	1261.2	1256.3	1261.2	1259.9	1264.7	1269.2	1276.7	1281.1	1291.6
10°	1209.4	1202.7	1197.1	1192.2	1197.1	1202.7	1209.4	1211.9	1222.4	1227.4	1237.8
12.5°	1134.0	1128.2	1120.7	1122.2	1120.7	1128.2	1134.0	1144.9	1158.3	1168.7	1185.1
15°	1027.0	1017.7	1003.0	1004.8	1003.0	1017.7	1027.0	1035.0	1048.6	1072.0	1083.1
17.5°	936.4	936.5	929.7	931.3	929.7	936.5	936.4	947.4	954.2	969.2	986.1
20°	889.6	885.2	885.8	884.0	885.8	885.2	889.6	902.5	909.9	920.3	938.9
22.5°	857.0	851.7	847.4	843.6	847.4	851.7	857.0	860.6	870.4	880.4	895.5
25°	802.0	798.3	792.7	791.5	792.7	798.3	802.0	807.5	812.4	825.5	834.6
27.5°	753.7	753.0	750.7	747.9	750.7	753.0	753.7	758.6	765.0	773.3	785.0
30°	725.6	724.3	723.1	721.2	723.1	724.3	725.6	730.5	735.4	742.2	751.4
32.5°	700.4	699.6	698.4	698.6	698.4	699.6	700.4	702.8	705.8	714.6	721.8
35°	664.5	663.9	662.7	662.1	662.7	663.9	664.5	667.0	668.9	671.3	677.4
37.5°	631.0	632.6	631.9	631.7	631.9	632.6	631.0	631.6	629.6	634.1	638.3
40°	607.8	608.4	609.7	609.0	609.7	608.4	607.8	608.4	608.4	608.4	612.2
42.5°	588.6	588.7	590.4	588.4	590.4	588.7	588.6	586.2	583.3	583.8	585.0
45°	554.2	557.9	557.2	557.2	557.2	557.9	554.2	549.8	549.3	546.8	546.8
47.5°	516.6	519.8	520.7	520.5	520.7	519.8	516.6	515.0	512.1	509.7	509.4
50°	492.0	490.7	492.6	492.0	492.6	490.7	492.0	488.8	484.6	484.6	483.3
52.5°	461.8	462.1	462.0	461.4	462.0	462.1	461.8	460.2	458.4	456.4	455.7
55°	415.4	416.1	414.8	415.4	414.8	416.1	415.4	414.8	414.8	413.7	414.8
57.5°	365.2	362.2	363.5	361.9	363.5	362.2	365.2	367.9	368.9	369.2	371.0
60°	329.2	324.2	323.0	320.6	323.0	324.2	329.2	335.4	337.8	339.0	340.9
62.5°	288.7	285.3	281.1	283.0	281.1	285.3	288.7	295.4	300.9	305.1	309.3
65°	234.9	232.4	230.5	233.0	230.5	232.4	234.9	239.8	244.7	254.6	263.9
67.5°	194.4	193.1	193.1	191.8	193.1	193.1	194.4	196.9	200.0	205.4	214.0
70°	173.3	171.4	171.4	170.1	171.4	171.4	173.3	173.3	176.3	178.8	184.9
72.5°	151.5	149.6	150.2	149.5	150.2	149.6	151.5	152.0	155.1	156.0	158.8
75°	112.2	109.1	109.1	109.8	109.1	109.1	112.2	115.9	119.0	124.5	125.7
77.5°	83.7	83.1	84.0	82.8	84.0	83.1	83.7	83.7	84.4	86.9	89.0
80°	68.4	67.8	67.2	69.0	67.2	67.8	68.4	68.4	69.0	69.6	70.3
82.5°	53.1	53.1	52.9	55.2	52.9	53.1	53.1	54.1	54.2	53.9	54.5
85°	32.0	30.9	32.0	30.9	32.0	30.9	32.0	31.5	32.0	31.5	32.0
87.5°	13.6	13.2	12.8	13.3	12.8	13.2	13.6	12.7	12.6	13.5	12.8
90°	11.6	11.8	11.9	12.1	11.9	11.8	11.6	11.4	11.1	10.5	10.0
92.5°	17.7	17.7	17.8	17.9	17.8	17.7	17.7	17.5	17.3	16.9	16.7
95°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.7	31.5	31.2
97.5°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.8	49.6	49.2
100°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.5	62.3	62.2
102.5°	76.6	76.7	76.8	76.9	76.8	76.7	76.6	76.6	76.4	76.2	75.9
105°	97.8	98.1	98.4	98.6	98.4	98.1	97.8	97.6	97.3	97.0	96.8
107.5°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.5	119.2
110°	134.1	134.4	134.6	134.9	134.6	134.4	134.1	133.8	133.8	134.0	134.2



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	150.3	150.3	150.4	150.4	150.4	150.3	150.3	150.3	150.3	150.3	150.3
115°	174.9	174.8	174.7	174.6	174.7	174.8	174.9	175.0	175.0	175.1	175.2
117.5°	198.0	197.9	197.7	197.5	197.7	197.9	198.0	198.2	198.5	198.8	199.1
120°	214.5	214.6	214.8	215.0	214.8	214.6	214.5	214.3	214.4	214.8	215.3
122.5°	230.5	230.2	229.8	229.5	229.8	230.2	230.5	230.8	231.1	231.4	231.8
125°	255.1	254.9	254.8	254.6	254.8	254.9	255.1	255.3	255.5	255.7	255.8
127.5°	278.2	278.0	277.9	277.8	277.9	278.0	278.2	278.3	278.5	278.7	278.8
130°	294.0	293.6	293.3	292.9	293.3	293.6	294.0	294.4	294.6	294.8	295.0
132.5°	309.5	309.4	309.2	309.2	309.2	309.4	309.5	309.7	309.9	310.0	310.2
135°	332.2	331.9	331.6	331.4	331.6	331.9	332.2	332.4	332.6	332.8	333.0
137.5°	354.5	354.5	354.6	354.7	354.6	354.5	354.5	354.5	354.5	354.8	355.0
140°	369.2	369.1	369.0	368.9	369.0	369.1	369.2	369.3	369.3	369.4	369.5
142.5°	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.3	383.3	383.3
145°	403.2	403.0	402.7	402.4	402.7	403.0	403.2	403.5	403.7	403.8	403.9
147.5°	422.3	422.2	422.1	422.0	422.1	422.2	422.3	422.4	422.5	422.5	422.6
150°	434.3	434.2	434.1	434.0	434.1	434.2	434.3	434.4	434.4	434.4	434.4
152.5°	445.7	445.4	445.2	445.0	445.2	445.4	445.7	445.9	445.9	445.7	445.5
155°	461.3	460.9	460.6	460.2	460.6	460.9	461.3	461.6	461.6	461.3	460.9
157.5°	474.8	474.5	474.2	473.9	474.2	474.5	474.8	475.1	475.1	474.8	474.6
160°	483.0	482.6	482.1	481.6	482.1	482.6	483.0	483.5	483.6	483.3	483.0
162.5°	491.1	490.6	490.2	489.7	490.2	490.6	491.1	491.5	491.5	491.1	490.5
165°	501.3	501.0	500.6	500.2	500.6	501.0	501.3	501.7	501.6	501.1	500.5
167.5°	509.4	508.9	508.3	507.7	508.3	508.9	509.4	510.0	510.0	509.4	508.9
170°	513.8	513.2	512.6	511.9	512.6	513.2	513.8	514.4	514.5	514.0	513.4
172.5°	517.4	516.7	516.1	515.5	516.1	516.7	517.4	518.0	518.0	517.5	516.8
175°	521.1	520.5	519.9	519.2	519.9	520.5	521.1	521.7	521.7	521.1	520.5
177.5°	522.9	522.4	521.7	521.2	521.7	522.4	522.9	523.4	523.5	523.0	522.5
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1463.5	1466.9	1474.8	1483.6	1491.0	1497.4	1502.4	1509.3	1515.7	1524.6	1532.9
5°	1374.7	1383.3	1395.6	1410.4	1428.9	1441.3	1456.7	1470.3	1490.0	1509.7	1528.7
7.5°	1296.7	1306.3	1324.4	1344.8	1366.8	1387.0	1405.2	1429.1	1455.3	1484.0	1516.1
10°	1246.4	1257.0	1278.5	1301.9	1327.8	1347.6	1372.2	1400.5	1430.1	1465.3	1504.8
12.5°	1201.0	1211.0	1237.1	1261.0	1287.9	1309.6	1338.2	1367.0	1406.5	1444.6	1489.4
15°	1112.7	1139.2	1168.8	1197.1	1229.2	1255.7	1290.2	1319.8	1357.5	1411.0	1462.2
17.5°	1014.5	1042.8	1079.5	1123.3	1166.3	1199.1	1234.1	1270.9	1315.6	1370.4	1429.4
20°	957.3	980.2	1020.8	1069.5	1119.5	1165.1	1197.1	1237.8	1284.1	1343.3	1404.3
22.5°	914.4	933.8	965.6	1014.3	1068.2	1121.1	1162.1	1202.3	1253.5	1312.7	1379.1
25°	850.1	871.0	898.8	932.1	993.7	1049.8	1103.4	1149.7	1203.9	1263.1	1337.0
27.5°	796.6	814.8	840.2	874.9	916.3	978.2	1043.1	1095.9	1151.6	1215.0	1289.1
30°	765.0	779.8	800.8	835.9	875.4	930.9	996.8	1058.5	1114.5	1180.4	1257.6
32.5°	732.0	747.8	768.2	795.9	838.4	884.9	950.9	1018.5	1078.1	1145.5	1221.0
35°	688.0	700.3	718.8	747.2	785.3	826.0	884.6	954.2	1017.2	1089.2	1161.4
37.5°	643.5	658.0	672.5	697.9	729.2	772.9	820.8	892.0	961.6	1027.5	1097.9
40°	618.3	627.0	642.9	663.3	696.6	735.4	780.4	850.1	919.7	985.1	1056.0
42.5°	590.2	599.8	613.3	633.7	663.5	701.4	745.4	805.7	878.3	941.6	1006.1
45°	551.1	556.6	570.2	587.5	612.2	650.3	691.1	744.7	813.1	873.5	930.2
47.5°	511.7	516.5	525.0	540.7	568.4	599.1	637.1	685.3	745.3	805.7	853.6
50°	484.6	488.8	496.9	511.7	536.3	566.5	604.1	647.3	700.9	758.8	798.9
52.5°	457.4	459.8	467.3	484.0	504.7	534.5	568.1	607.8	658.0	706.1	746.6
55°	414.3	419.8	424.7	437.0	456.8	485.2	515.3	552.9	591.8	632.5	667.0
57.5°	369.3	375.3	382.5	393.3	408.9	435.3	462.4	492.9	526.1	559.8	588.8
60°	339.7	345.2	351.3	363.7	377.9	398.9	428.5	455.0	480.2	511.0	540.0
62.5°	310.6	316.1	323.2	333.1	346.8	366.8	391.5	414.5	440.8	467.6	489.2
65°	267.5	271.9	277.4	286.7	299.6	317.4	337.8	355.7	379.2	398.9	418.6
67.5°	220.3	228.5	235.9	243.3	254.3	271.0	285.7	302.8	318.7	333.4	351.3
70°	189.2	198.5	205.3	213.3	223.7	237.9	252.1	263.9	276.8	291.0	307.0
72.5°	163.1	170.4	175.7	184.2	193.7	206.9	220.1	229.8	240.3	250.0	265.6
75°	128.9	131.9	135.6	142.4	151.1	160.9	171.4	180.0	186.2	194.8	205.9
77.5°	92.6	98.5	100.9	105.8	111.9	118.2	125.0	132.3	138.2	141.2	149.8
80°	70.9	73.4	75.8	82.6	86.3	92.5	97.4	104.2	106.6	109.8	117.7
82.5°	55.1	56.6	58.1	59.9	62.2	68.3	73.2	77.6	80.0	81.1	87.2
85°	32.0	32.6	33.3	33.9	34.5	34.5	37.0	40.0	44.4	44.4	46.2
87.5°	12.8	13.1	13.0	12.3	13.2	13.0	13.4	13.2	14.4	15.7	17.0
90°	9.5	8.9	8.2	7.5	6.8	6.0	5.2	4.2	3.2	2.2	1.2
92.5°	16.3	16.0	15.5	15.0	14.5	14.0	13.2	12.0	10.9	9.8	8.6
95°	30.9	30.7	30.1	29.4	28.8	28.2	27.5	26.7	25.9	25.1	24.3
97.5°	48.9	48.6	47.8	47.1	46.4	45.7	44.9	44.3	43.6	43.0	42.4
100°	62.0	61.8	61.0	60.2	59.4	58.6	58.1	57.6	57.2	56.9	56.5
102.5°	75.6	75.4	74.6	73.9	73.2	72.5	72.1	71.9	71.7	71.6	71.4
105°	96.4	96.1	95.8	95.4	95.1	94.7	94.5	94.4	94.3	94.3	94.2
107.5°	119.0	118.7	118.7	118.6	118.6	118.5	118.4	118.3	118.2	118.1	118.0
110°	134.4	134.6	134.6	134.7	134.8	134.9	134.8	134.6	134.5	134.3	134.1



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	150.3	150.4	150.5	150.7	150.9	151.1	151.1	151.1	151.1	151.0	151.0
115°	175.3	175.4	175.6	175.8	175.9	176.1	176.2	176.2	176.2	176.2	176.2
117.5°	199.4	199.7	199.8	199.9	200.1	200.2	200.2	200.2	200.1	200.0	199.9
120°	215.7	216.2	216.4	216.7	217.0	217.2	217.2	216.9	216.5	216.2	215.8
122.5°	232.0	232.4	232.5	232.6	232.7	232.8	232.8	232.6	232.6	232.4	232.3
125°	256.0	256.2	256.3	256.4	256.5	256.5	256.5	256.5	256.5	256.5	256.5
127.5°	279.0	279.2	279.4	279.5	279.6	279.8	279.7	279.5	279.2	278.9	278.7
130°	295.2	295.3	295.3	295.3	295.3	295.3	295.2	295.0	294.7	294.4	294.2
132.5°	310.4	310.6	310.7	310.7	310.8	310.9	310.8	310.6	310.4	310.2	310.0
135°	333.1	333.3	333.3	333.3	333.3	333.3	333.1	332.5	332.0	331.4	330.9
137.5°	355.3	355.5	355.3	355.3	355.1	354.9	354.7	354.5	354.2	354.0	353.7
140°	369.6	369.7	369.7	369.7	369.7	369.7	369.6	369.4	369.3	369.1	368.9
142.5°	383.3	383.3	383.3	383.4	383.5	383.6	383.5	383.3	383.2	383.0	382.8
145°	403.9	404.0	403.9	403.9	403.8	403.7	403.5	403.1	402.8	402.4	402.1
147.5°	422.7	422.8	422.8	422.8	422.9	423.0	422.8	422.4	422.0	421.5	421.2
150°	434.4	434.4	434.4	434.4	434.4	434.4	434.2	433.8	433.5	433.1	432.7
152.5°	445.2	445.1	445.0	444.9	444.8	444.8	444.6	444.4	444.2	444.0	443.7
155°	460.6	460.2	460.3	460.4	460.5	460.6	460.7	460.7	460.7	460.7	460.7
157.5°	474.3	474.0	474.0	474.1	474.1	474.1	474.2	474.4	474.6	474.7	474.8
160°	482.8	482.5	482.6	482.7	482.8	482.9	483.0	483.0	483.1	483.2	483.3
162.5°	490.1	489.5	489.6	489.7	489.8	489.9	490.1	490.4	490.5	490.8	491.1
165°	500.0	499.4	499.6	499.8	500.0	500.2	500.3	500.6	500.9	501.1	501.4
167.5°	508.4	507.8	507.8	507.8	507.7	507.7	507.9	508.4	508.7	509.1	509.4
170°	512.9	512.4	512.3	512.2	512.1	512.0	512.2	512.6	513.1	513.5	514.0
172.5°	516.2	515.6	515.6	515.6	515.5	515.5	515.7	516.1	516.5	516.8	517.2
175°	519.9	519.2	519.3	519.4	519.5	519.6	519.9	520.3	520.8	521.2	521.7
177.5°	522.0	521.5	521.5	521.5	521.5	521.5	521.7	522.0	522.4	522.7	523.1
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1539.4	1543.8	1548.7	1558.1	1566.0	1569.5	1576.4	1581.3	1579.8	1586.7	1598.6
5°	1545.4	1562.1	1581.2	1600.9	1623.1	1641.6	1656.4	1671.2	1682.9	1697.1	1718.1
7.5°	1544.4	1574.0	1606.2	1641.6	1677.9	1709.4	1738.5	1768.1	1794.3	1823.1	1860.6
10°	1540.5	1579.9	1620.0	1666.3	1712.4	1756.2	1795.7	1832.6	1867.9	1905.4	1952.9
12.5°	1536.1	1581.4	1629.9	1685.5	1743.0	1795.7	1842.1	1895.3	1939.3	1987.8	2042.6
15°	1516.4	1577.4	1643.4	1715.6	1784.6	1855.5	1919.0	1984.3	2045.3	2103.3	2172.4
17.5°	1494.0	1564.4	1642.2	1727.4	1810.4	1896.6	1971.8	2054.2	2116.7	2194.4	2258.5
20°	1475.8	1551.6	1634.8	1730.4	1824.7	1920.2	2003.4	2087.3	2157.6	2235.9	2317.2
22.5°	1453.6	1536.8	1626.9	1725.9	1824.7	1929.1	2021.2	2104.5	2191.6	2279.7	2363.6
25°	1417.8	1504.1	1599.6	1708.2	1821.6	1928.2	2026.9	2130.4	2224.1	2319.7	2394.9
27.5°	1373.9	1464.5	1565.3	1677.2	1793.6	1902.8	2019.0	2129.3	2223.7	2315.6	2381.2
30°	1338.9	1434.5	1531.2	1644.7	1765.5	1882.6	2007.2	2117.5	2216.7	2299.4	2336.3
32.5°	1302.9	1393.6	1493.3	1608.2	1732.0	1858.0	1981.5	2094.3	2186.1	2235.7	2236.7
35°	1240.3	1325.3	1428.9	1541.8	1668.7	1805.5	1930.7	2041.7	2097.7	2102.0	2041.7
37.5°	1172.0	1250.0	1347.8	1460.7	1599.8	1735.9	1863.8	1937.7	1956.5	1893.7	1782.0
40°	1123.2	1195.2	1289.6	1405.5	1543.6	1684.1	1800.6	1854.8	1835.1	1733.4	1608.9
42.5°	1071.8	1139.1	1229.9	1344.3	1482.9	1625.0	1724.2	1753.3	1701.0	1583.5	1437.8
45°	988.2	1049.8	1139.8	1255.1	1388.2	1521.3	1596.6	1581.8	1494.9	1355.6	1192.2
47.5°	901.0	960.6	1041.5	1148.2	1284.5	1399.5	1450.4	1405.8	1282.1	1128.8	996.0
50°	843.3	904.3	978.9	1080.7	1205.1	1316.1	1348.8	1280.9	1143.5	996.1	874.1
52.5°	786.6	838.7	911.9	1010.1	1129.2	1222.9	1240.3	1162.1	1020.2	888.1	779.9
55°	700.3	747.8	809.4	901.9	1004.8	1084.3	1075.0	974.6	845.8	733.0	647.9
57.5°	616.8	652.6	709.5	796.2	886.5	940.0	906.2	820.5	700.4	608.1	536.3
60°	561.6	594.9	647.9	723.7	803.3	833.4	805.0	712.0	617.1	532.6	472.2
62.5°	509.3	538.7	584.2	654.7	718.9	736.7	706.4	625.2	539.7	467.5	417.5
65°	433.4	460.5	499.4	549.3	593.6	602.3	582.6	499.4	434.6	374.2	339.7
67.5°	364.4	382.2	412.5	455.7	479.2	484.3	446.2	393.9	336.8	299.7	273.7
70°	318.1	330.4	358.7	382.2	401.3	401.9	366.8	324.9	281.1	250.9	231.8
72.5°	273.2	285.1	306.5	322.5	337.2	332.4	300.2	267.2	231.8	209.0	194.8
75°	210.8	221.3	232.4	239.8	239.8	233.6	210.2	185.6	165.2	151.7	147.3
77.5°	153.3	161.8	165.6	164.4	162.3	152.7	137.9	121.7	114.4	108.0	104.8
80°	120.2	123.9	125.1	122.1	118.3	107.3	97.4	90.6	83.8	81.4	80.2
82.5°	89.2	92.4	89.2	90.0	81.9	72.8	67.3	65.0	62.2	61.2	59.9
85°	47.4	46.8	45.7	42.5	37.0	35.8	35.1	34.5	33.3	33.9	32.6
87.5°	16.7	15.4	13.6	13.4	13.6	12.7	13.3	13.5	13.6	13.2	14.4
90°	2.2	3.2	4.2	5.2	6.0	6.8	7.5	8.2	8.9	9.5	10.0
92.5°	9.8	10.9	12.0	13.2	14.0	14.5	15.0	15.5	16.0	16.3	16.7
95°	25.1	25.9	26.7	27.5	28.2	28.8	29.4	30.1	30.7	30.9	31.2
97.5°	43.0	43.6	44.3	44.9	45.7	46.4	47.1	47.8	48.6	48.9	49.2
100°	56.9	57.2	57.6	58.1	58.6	59.4	60.2	61.0	61.8	62.0	62.2
102.5°	71.6	71.7	71.9	72.1	72.5	73.2	73.9	74.6	75.4	75.6	75.9
105°	94.3	94.3	94.4	94.5	94.7	95.1	95.4	95.8	96.1	96.4	96.8
107.5°	118.1	118.2	118.3	118.4	118.5	118.6	118.6	118.7	118.7	119.0	119.2
110°	134.3	134.5	134.6	134.8	134.9	134.8	134.7	134.6	134.6	134.4	134.2





TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.0	151.1	151.1	151.1	151.1	150.9	150.7	150.5	150.4	150.3	150.3
115°	176.2	176.2	176.2	176.2	176.1	175.9	175.8	175.6	175.4	175.3	175.2
117.5°	200.0	200.1	200.2	200.2	200.2	200.1	199.9	199.8	199.7	199.4	199.1
120°	216.2	216.5	216.9	217.2	217.2	217.0	216.7	216.4	216.2	215.7	215.3
122.5°	232.4	232.6	232.6	232.8	232.8	232.7	232.6	232.5	232.4	232.0	231.8
125°	256.5	256.5	256.5	256.5	256.5	256.5	256.4	256.3	256.2	256.0	255.8
127.5°	278.9	279.2	279.5	279.7	279.8	279.6	279.5	279.4	279.2	279.0	278.8
130°	294.4	294.7	295.0	295.2	295.3	295.3	295.3	295.3	295.3	295.2	295.0
132.5°	310.2	310.4	310.6	310.8	310.9	310.8	310.7	310.7	310.6	310.4	310.2
135°	331.4	332.0	332.5	333.1	333.3	333.3	333.3	333.3	333.3	333.1	333.0
137.5°	354.0	354.2	354.5	354.7	354.9	355.1	355.3	355.3	355.5	355.3	355.0
140°	369.1	369.3	369.4	369.6	369.7	369.7	369.7	369.7	369.7	369.6	369.5
142.5°	383.0	383.2	383.3	383.5	383.6	383.5	383.4	383.3	383.3	383.3	383.3
145°	402.4	402.8	403.1	403.5	403.7	403.8	403.9	403.9	404.0	403.9	403.9
147.5°	421.5	422.0	422.4	422.8	423.0	422.9	422.8	422.8	422.8	422.7	422.6
150°	433.1	433.5	433.8	434.2	434.4	434.4	434.4	434.4	434.4	434.4	434.4
152.5°	444.0	444.2	444.4	444.6	444.8	444.8	444.9	445.0	445.1	445.2	445.5
155°	460.7	460.7	460.7	460.7	460.6	460.5	460.4	460.3	460.2	460.6	460.9
157.5°	474.7	474.6	474.4	474.2	474.1	474.1	474.1	474.0	474.0	474.3	474.6
160°	483.2	483.1	483.0	483.0	482.9	482.8	482.7	482.6	482.5	482.8	483.0
162.5°	490.8	490.5	490.4	490.1	489.9	489.8	489.7	489.6	489.5	490.1	490.5
165°	501.1	500.9	500.6	500.3	500.2	500.0	499.8	499.6	499.4	500.0	500.5
167.5°	509.1	508.7	508.4	507.9	507.7	507.7	507.8	507.8	507.8	508.4	508.9
170°	513.5	513.1	512.6	512.2	512.0	512.1	512.2	512.3	512.4	512.9	513.4
172.5°	516.8	516.5	516.1	515.7	515.5	515.5	515.6	515.6	515.6	516.2	516.8
175°	521.2	520.8	520.3	519.9	519.6	519.5	519.4	519.3	519.2	519.9	520.5
177.5°	522.7	522.4	522.0	521.7	521.5	521.5	521.5	521.5	521.5	522.0	522.5
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1605.0	1607.0	1608.5	1613.4	1613.8	1618.3	1613.8
5°	1737.8	1746.4	1760.0	1773.5	1774.8	1783.3	1768.0
7.5°	1886.7	1906.7	1919.1	1941.1	1949.7	1955.1	1946.2
10°	1989.2	2007.8	2040.4	2056.5	2072.5	2074.9	2067.5
12.5°	2088.4	2117.7	2143.5	2173.8	2173.1	2194.8	2186.9
15°	2220.4	2250.7	2286.3	2320.3	2332.6	2332.6	2342.5
17.5°	2314.6	2370.0	2407.0	2433.6	2462.7	2467.7	2464.3
20°	2378.3	2438.0	2477.5	2512.0	2531.7	2537.3	2537.3
22.5°	2425.5	2476.5	2515.0	2546.0	2562.3	2568.8	2566.9
25°	2458.4	2502.1	2525.6	2534.8	2539.1	2537.9	2526.2
27.5°	2413.5	2411.5	2396.7	2368.4	2347.1	2334.1	2319.3
30°	2327.7	2295.6	2258.6	2218.0	2165.6	2125.5	2113.2
32.5°	2199.9	2128.0	2065.3	1997.5	1941.2	1901.1	1884.4
35°	1952.9	1838.9	1745.8	1664.4	1605.3	1568.3	1555.9
37.5°	1659.7	1549.3	1434.1	1355.2	1306.1	1268.7	1254.8
40°	1473.3	1353.1	1252.6	1178.7	1128.1	1091.7	1091.1
42.5°	1303.1	1188.4	1093.9	1040.5	986.1	962.0	961.9
45°	1067.0	975.2	895.1	853.2	820.5	800.8	795.2
47.5°	883.5	807.5	754.1	720.8	694.1	681.5	673.4
50°	780.4	713.8	671.3	642.3	627.5	611.5	610.3
52.5°	694.6	640.9	607.7	584.2	565.4	555.8	556.1
55°	583.8	541.3	517.8	499.9	485.2	477.8	474.7
57.5°	491.8	459.9	442.8	426.4	420.2	414.4	412.8
60°	434.6	413.0	397.0	384.1	374.8	372.9	372.3
62.5°	387.3	364.7	353.6	343.6	336.8	333.9	332.9
65°	319.3	302.6	292.8	284.8	282.3	278.0	277.4
67.5°	257.4	247.4	240.9	235.3	232.0	231.8	231.8
70°	219.5	213.9	208.4	205.3	203.4	202.2	202.2
72.5°	186.9	182.8	178.3	176.6	176.3	175.0	174.6
75°	142.4	138.1	138.7	135.6	133.1	130.1	128.2
77.5°	100.9	97.9	97.3	96.9	94.8	94.4	95.4
80°	78.3	75.2	74.5	75.2	74.5	72.8	72.8
82.5°	59.6	57.0	56.4	56.0	55.4	56.0	55.0
85°	32.0	30.9	30.9	30.9	32.0	31.5	30.9
87.5°	13.5	13.0	13.6	13.2	13.2	12.8	13.3
90°	10.5	11.1	11.4	11.6	11.8	11.9	12.1
92.5°	16.9	17.3	17.5	17.7	17.7	17.8	17.9
95°	31.5	31.7	31.9	31.9	31.9	31.9	31.9
97.5°	49.6	49.8	50.0	50.0	50.0	50.0	50.0
100°	62.3	62.5	62.6	62.6	62.6	62.6	62.6
102.5°	76.2	76.4	76.6	76.6	76.7	76.8	76.9
105°	97.0	97.3	97.6	97.8	98.1	98.4	98.6
107.5°	119.5	119.8	119.8	119.8	119.8	119.8	119.8
110°	134.0	133.8	133.8	134.1	134.4	134.6	134.9



TEST NUMBER: P333076-940

CATALOG NUMBER: S124RDIW-S1020D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	150.3	150.3	150.3	150.3	150.3	150.4	150.4
115°	175.1	175.0	175.0	174.9	174.8	174.7	174.6
117.5°	198.8	198.5	198.2	198.0	197.9	197.7	197.5
120°	214.8	214.4	214.3	214.5	214.6	214.8	215.0
122.5°	231.4	231.1	230.8	230.5	230.2	229.8	229.5
125°	255.7	255.5	255.3	255.1	254.9	254.8	254.6
127.5°	278.7	278.5	278.3	278.2	278.0	277.9	277.8
130°	294.8	294.6	294.4	294.0	293.6	293.3	292.9
132.5°	310.0	309.9	309.7	309.5	309.4	309.2	309.2
135°	332.8	332.6	332.4	332.2	331.9	331.6	331.4
137.5°	354.8	354.5	354.5	354.5	354.5	354.6	354.7
140°	369.4	369.3	369.3	369.2	369.1	369.0	368.9
142.5°	383.3	383.3	383.2	383.2	383.2	383.2	383.2
145°	403.8	403.7	403.5	403.2	403.0	402.7	402.4
147.5°	422.5	422.5	422.4	422.3	422.2	422.1	422.0
150°	434.4	434.4	434.4	434.3	434.2	434.1	434.0
152.5°	445.7	445.9	445.9	445.7	445.4	445.2	445.0
155°	461.3	461.6	461.6	461.3	460.9	460.6	460.2
157.5°	474.8	475.1	475.1	474.8	474.5	474.2	473.9
160°	483.3	483.6	483.5	483.0	482.6	482.1	481.6
162.5°	491.1	491.5	491.5	491.1	490.6	490.2	489.7
165°	501.1	501.6	501.7	501.3	501.0	500.6	500.2
167.5°	509.4	510.0	510.0	509.4	508.9	508.3	507.7
170°	514.0	514.5	514.4	513.8	513.2	512.6	511.9
172.5°	517.5	518.0	518.0	517.4	516.7	516.1	515.5
175°	521.1	521.7	521.7	521.1	520.5	519.9	519.2
177.5°	523.0	523.5	523.4	522.9	522.4	521.7	521.2
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5

(END OF REPORT)