

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: P332380-927

Luminaire Tested: **S123RDIP-S1165D1025U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332380-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1165D1025U927-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

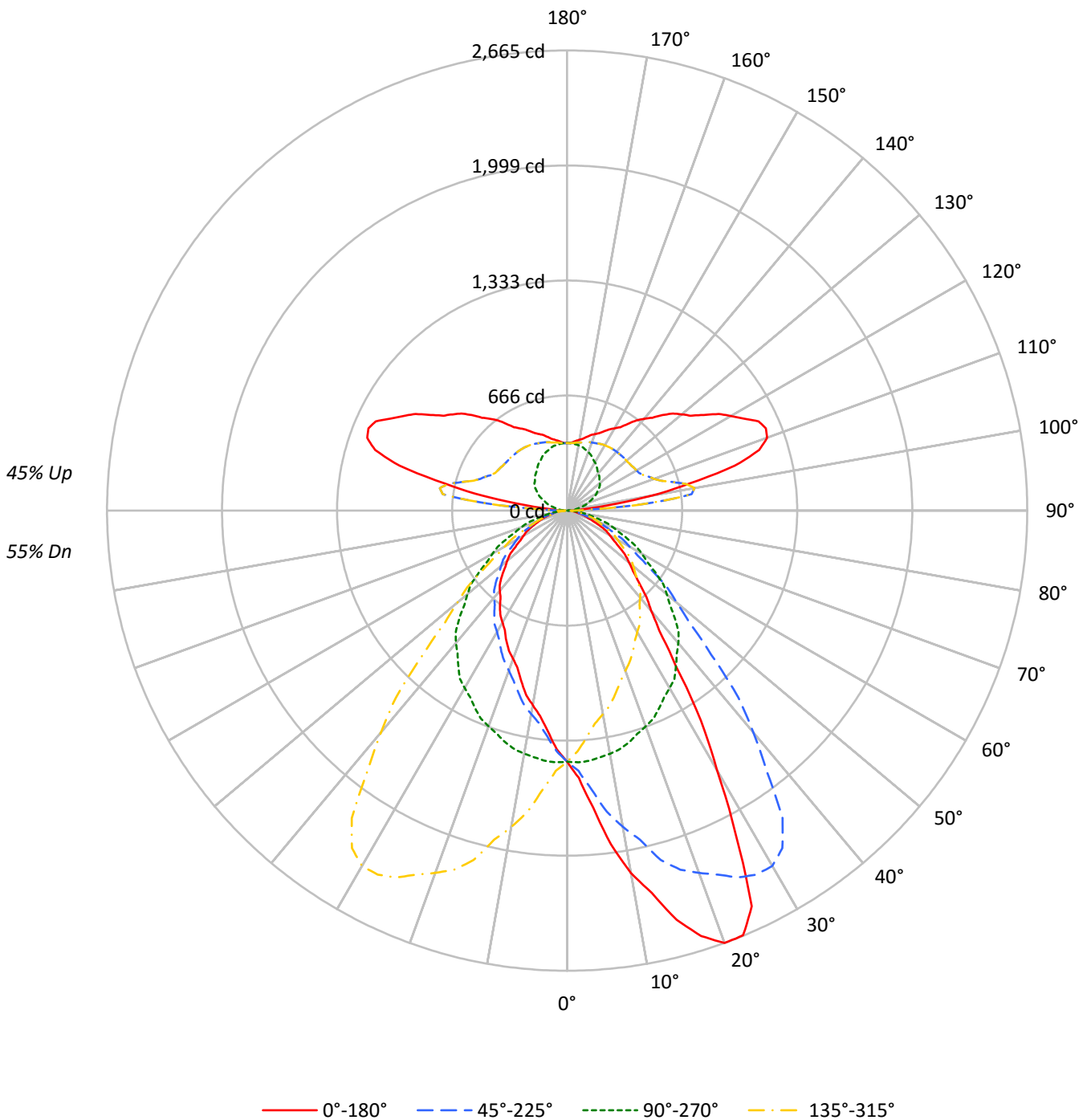
Lumens per Lamp: N/A  
Luminaire Lumens: 6563.3 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	100	95	92	88	92	89	86	83	77	74	72	65	64	62	55	54	53	48
2	91	84	78	73	85	78	73	69	68	64	61	58	55	53	49	47	45	41
3	84	75	67	62	78	70	63	58	60	56	52	52	48	46	44	42	39	36
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	34	31
5	71	59	52	46	66	56	49	44	49	43	39	42	38	35	36	33	30	27
6	65	54	46	40	61	50	43	38	44	39	34	38	34	31	33	30	27	24
7	61	49	41	35	56	46	39	34	40	35	31	35	31	27	30	27	24	22
8	56	44	37	31	52	42	35	30	37	31	27	32	28	25	28	24	22	20
9	53	41	33	28	49	38	32	27	34	28	25	30	25	22	26	22	20	18
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16

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

	0°	90°	180°	270°
0°	15655	15655	15655	15655
5°	18662	15722	13846	15722
10°	23302	15632	12508	15632
15°	27351	15473	11407	15473
20°	30525	15234	10470	15234
25°	30037	14982	9894	14982
30°	21592	14751	9302	14751
35°	14416	14448	8918	14448
40°	10621	14085	8521	14085
45°	8910	13449	8132	13449
50°	7860	12616	7591	12616
55°	6893	11661	6848	11661
60°	6140	10749	6273	10749
65°	5392	9770	5835	9770
70°	4233	8897	5331	8897
75°	3730	7769	4870	7769
80°	3242	6602	4785	6602
85°	2618	5298	5076	5298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	2.2
10°-20°	446.9	6.8
20°-30°	702.0	10.7
30°-40°	732.4	11.2
40°-50°	626.8	9.6
50°-60°	477.7	7.3
60°-70°	306.2	4.7
70°-80°	147.3	2.2
80°-90°	42.0	0.6
90°-100°	217.4	3.3
100°-110°	615.6	9.4
110°-120°	605.5	9.2
120°-130°	483.0	7.4
130°-140°	380.8	5.8
140°-150°	284.2	4.3
150°-160°	198.1	3.0
160°-170°	116.4	1.8
170°-180°	37.9	0.6
0°-30°	1291.9	19.7
0°-40°	2024.3	30.8
0°-60°	3128.9	47.7
0°-90°	3624.4	55.2
90°-120°	1438.5	21.9
90°-150°	2586.5	39.4
90°-180°	2939.0	44.8
0°-180°	6563.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1454	1454	1454	1454	1454	
5°	1727	1455	1281	1455	1727	178
15°	2454	1388	1024	1388	2454	696
25°	2529	1262	833	1262	2529	1087
35°	1097	1100	679	1100	1097	719
45°	585	884	534	884	585	460
55°	367	621	365	621	367	332
65°	212	384	229	384	212	208
75°	90	187	117	187	90	96
85°	21	43	41	43	21	25
90°	23	2	23	2	23	13
95°	92	27	92	27	92	165
105°	1006	92	1006	92	1006	992
115°	1223	162	1223	162	1223	1189
125°	965	225	965	225	965	874
135°	782	264	782	264	782	607
145°	611	301	611	301	611	389
155°	507	342	507	342	507	236
165°	442	374	442	374	442	126
175°	398	390	398	390	398	39
180°	391	391	391	391	391	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1549.1	1551.1	1544.6	1543.6	1536.1	1534.1	1534.1	1523.7	1517.2	1508.8	1503.8
5°	1727.2	1737.2	1732.2	1720.9	1702.2	1697.9	1686.1	1667.4	1646.2	1620.1	1607.7
7.5°	1949.6	1963.2	1958.0	1940.6	1921.0	1905.3	1871.8	1840.9	1797.4	1759.3	1726.6
10°	2131.9	2117.6	2106.3	2089.5	2071.5	2042.2	2007.4	1959.4	1904.0	1860.4	1811.9
12.5°	2268.3	2266.0	2251.8	2234.5	2209.0	2181.2	2138.3	2080.0	2015.5	1952.6	1897.0
15°	2454.4	2458.1	2448.8	2430.7	2394.6	2345.4	2280.7	2256.5	2164.2	2095.8	2027.3
17.5°	2583.1	2582.4	2581.2	2556.1	2519.3	2484.3	2424.2	2360.4	2277.0	2180.5	2088.2
20°	2664.8	2658.6	2659.9	2631.9	2604.5	2564.0	2505.4	2412.7	2344.2	2232.8	2137.5
22.5°	2662.8	2661.7	2666.3	2656.7	2636.9	2605.8	2559.8	2481.4	2394.1	2281.6	2174.4
25°	2529.1	2524.1	2553.4	2561.5	2593.3	2598.8	2585.1	2542.2	2459.4	2343.6	2211.0
27.5°	2116.7	2113.9	2168.3	2236.3	2322.4	2389.4	2454.2	2485.4	2459.4	2376.5	2243.6
30°	1737.2	1795.6	1823.0	1921.4	2031.0	2161.8	2276.3	2385.3	2412.0	2376.0	2267.0
32.5°	1442.2	1493.3	1516.2	1600.7	1702.8	1855.9	2027.7	2182.1	2291.1	2318.6	2253.0
35°	1097.1	1097.7	1150.0	1187.3	1282.0	1439.6	1606.4	1813.1	2018.6	2174.2	2190.4
37.5°	875.4	878.5	910.1	947.4	1018.4	1101.7	1248.6	1420.5	1657.8	1896.8	2036.9
40°	755.9	761.4	785.1	821.9	872.9	935.8	1050.4	1212.3	1410.2	1676.1	1893.4
42.5°	679.1	688.2	700.4	728.7	760.3	819.3	911.9	1037.0	1217.0	1468.4	1719.1
45°	585.3	590.3	599.6	612.7	641.3	682.4	744.7	828.7	978.2	1180.5	1431.4
47.5°	516.3	513.7	523.5	534.1	553.2	581.1	622.9	691.5	798.1	960.4	1173.3
50°	469.4	468.8	475.7	483.8	501.8	522.4	556.7	608.3	693.0	827.5	1022.4
52.5°	425.6	428.0	432.8	442.9	456.0	472.6	503.4	540.6	613.3	729.4	891.8
55°	367.3	369.2	376.0	381.7	391.0	407.8	427.1	458.3	508.1	589.0	722.9
57.5°	318.1	317.2	323.8	325.1	335.7	349.4	364.3	388.5	424.6	484.8	575.0
60°	285.2	283.3	288.9	293.3	298.9	310.1	322.5	346.2	374.9	419.1	496.2
62.5°	255.2	254.4	258.5	262.8	267.5	277.7	288.1	306.3	329.0	366.2	427.5
65°	211.7	213.6	215.4	217.3	219.8	226.0	236.0	248.4	264.0	290.2	334.4
67.5°	166.4	168.3	168.9	172.7	178.1	182.0	188.1	199.2	209.9	232.0	257.1
70°	134.5	133.9	134.5	136.3	143.2	150.0	158.1	166.3	173.1	188.6	209.8
72.5°	115.6	114.5	116.1	116.5	119.8	121.7	126.7	134.4	143.2	153.8	169.0
75°	89.7	89.7	89.7	89.7	92.1	93.4	95.3	97.1	100.2	105.2	116.5
77.5°	66.2	66.4	67.3	67.9	68.4	69.1	70.3	72.1	73.2	75.8	80.7
80°	52.3	52.9	52.3	52.9	52.9	54.2	54.8	56.6	57.3	60.4	62.3
82.5°	39.4	39.0	39.4	40.0	40.0	41.2	41.4	42.7	42.9	44.4	46.3
85°	21.2	20.0	21.2	20.5	21.8	20.5	21.2	22.4	22.4	23.1	25.5
87.5°	9.6	10.7	9.6	9.9	10.1	10.2	10.1	9.9	10.8	10.5	10.5
90°	22.9	23.7	22.9	22.1	22.9	21.4	20.6	19.8	19.0	19.8	17.4
92.5°	38.1	39.5	38.7	41.1	42.5	46.7	52.8	66.5	91.7	121.6	133.8
95°	91.7	94.9	100.4	107.6	122.6	151.1	193.0	284.6	380.3	468.9	417.5
97.5°	249.7	256.5	277.9	313.5	371.8	466.4	568.4	709.6	777.4	726.7	532.0
100°	495.8	495.0	525.9	583.6	663.5	775.7	868.2	932.3	904.6	748.8	506.0
102.5°	727.3	745.5	771.3	817.0	879.2	950.3	1004.2	1006.3	910.9	707.7	468.1
105°	1005.8	1009.8	1035.1	1065.1	1101.5	1122.0	1107.1	1027.9	862.7	635.7	421.4
107.5°	1166.2	1173.5	1182.0	1192.2	1191.5	1163.3	1094.1	965.7	778.2	572.2	391.7
110°	1232.0	1233.6	1235.2	1228.8	1206.7	1151.3	1051.7	906.2	725.1	536.1	380.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1245.2	1244.9	1238.9	1219.3	1178.8	1107.6	996.0	847.3	678.9	512.1	374.0
115°	1223.3	1219.3	1203.5	1168.7	1109.4	1023.2	907.0	769.4	623.1	486.3	371.6
117.5°	1153.3	1148.0	1125.2	1085.4	1023.5	936.0	831.7	713.0	589.4	471.1	373.0
120°	1095.2	1090.4	1071.4	1027.1	964.7	884.9	790.0	683.2	571.7	464.1	375.6
122.5°	1040.8	1034.7	1013.9	974.1	918.5	844.4	756.5	659.8	557.1	459.7	380.0
125°	964.7	959.2	939.4	904.6	854.0	790.8	714.9	628.7	538.5	453.9	386.7
127.5°	902.1	897.0	879.2	849.4	804.3	746.8	678.3	601.4	522.0	451.1	394.3
130°	866.6	860.3	843.8	815.2	773.3	719.5	655.5	584.4	513.2	449.2	399.3
132.5°	831.9	827.4	812.7	784.3	744.9	693.6	634.0	568.5	504.9	448.5	403.1
135°	782.0	776.5	762.2	738.6	699.8	654.7	603.3	547.2	494.2	447.6	408.8
137.5°	729.4	725.7	713.8	689.7	657.1	618.1	573.8	527.8	484.9	445.8	412.6
140°	692.7	693.5	680.8	658.7	628.7	594.6	556.7	516.3	479.2	445.2	415.1
142.5°	658.5	659.3	647.9	628.4	602.7	573.1	540.3	505.6	474.1	443.9	417.0
145°	611.2	609.7	603.3	586.7	567.0	544.0	518.7	492.7	467.3	442.0	418.3
147.5°	572.4	571.7	565.7	554.4	539.5	523.2	502.7	482.0	460.7	439.0	418.3
150°	549.5	549.5	544.8	536.1	524.3	509.2	492.7	474.4	456.2	436.5	418.3
152.5°	530.6	530.6	527.8	519.7	510.3	497.9	483.2	467.5	451.2	433.3	416.4
155°	506.8	506.0	504.5	498.2	491.1	481.6	469.7	457.0	443.6	427.8	414.3
157.5°	485.2	485.4	484.1	479.3	473.2	465.7	456.5	446.0	435.1	422.9	411.7
160°	471.3	472.1	472.1	467.3	461.8	456.2	448.4	439.7	429.4	419.1	410.4
162.5°	458.6	459.4	459.4	455.3	451.7	446.8	439.5	432.1	423.7	415.3	407.9
165°	442.0	442.0	442.8	439.7	436.5	432.5	427.0	422.2	415.9	409.6	404.1
167.5°	426.2	426.2	427.0	424.8	423.3	420.5	417.3	413.7	408.5	403.9	400.3
170°	416.7	416.7	417.5	415.9	415.1	413.5	410.4	408.1	404.1	400.1	397.8
172.5°	407.9	408.5	410.0	408.4	408.2	407.3	404.7	403.0	399.7	397.0	395.9
175°	397.8	398.5	399.3	398.5	398.5	398.5	397.0	396.2	394.6	393.0	393.0
177.5°	391.9	391.9	393.2	392.5	393.2	393.2	392.5	391.9	391.3	390.6	391.3
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1501.8	1500.3	1493.3	1485.3	1474.9	1467.9	1462.4	1459.4	1450.5	1439.6	1432.0
5°	1594.6	1575.9	1555.9	1531.7	1509.3	1486.2	1471.9	1455.1	1434.6	1411.5	1395.3
7.5°	1693.9	1657.3	1617.9	1577.2	1536.9	1500.8	1468.9	1441.6	1408.9	1375.9	1352.7
10°	1770.1	1716.6	1661.2	1604.5	1552.8	1504.3	1466.9	1430.2	1391.0	1353.0	1324.4
12.5°	1839.4	1768.9	1705.0	1635.4	1569.3	1511.2	1457.5	1414.2	1367.1	1326.6	1294.0
15°	1927.1	1854.8	1777.6	1671.7	1584.0	1510.5	1445.1	1388.5	1331.2	1281.4	1249.6
17.5°	2009.0	1900.3	1796.5	1708.3	1594.2	1502.4	1422.6	1354.9	1292.0	1239.1	1200.1
20°	2042.9	1937.6	1825.0	1712.2	1600.1	1497.5	1404.6	1329.9	1264.6	1204.8	1168.7
22.5°	2063.2	1944.1	1825.4	1704.3	1585.2	1478.5	1386.7	1304.6	1233.7	1176.9	1132.3
25°	2087.1	1945.1	1814.3	1694.8	1573.4	1457.6	1348.6	1261.5	1184.9	1124.5	1077.1
27.5°	2102.8	1935.8	1781.2	1648.4	1525.2	1409.8	1310.0	1217.6	1140.0	1076.0	1025.2
30°	2105.7	1928.3	1755.8	1612.0	1486.8	1381.0	1275.2	1186.8	1104.5	1036.6	989.4
32.5°	2109.7	1909.9	1721.4	1568.7	1440.5	1335.7	1239.8	1155.3	1071.2	1004.3	956.0
35°	2093.3	1899.7	1669.3	1493.7	1365.4	1263.9	1177.4	1099.5	1016.8	952.0	902.9
37.5°	2022.5	1859.2	1615.3	1409.3	1275.2	1181.1	1110.6	1042.7	966.9	897.0	850.6
40°	1951.3	1819.3	1573.4	1358.0	1217.9	1121.3	1057.9	1002.4	929.0	863.6	813.8
42.5°	1845.2	1765.1	1533.5	1304.2	1153.1	1060.1	1006.5	954.6	890.1	823.7	776.9
45°	1650.6	1661.2	1452.0	1218.5	1063.4	970.0	919.6	883.5	826.2	771.4	723.5
47.5°	1406.5	1505.5	1356.2	1127.2	968.9	881.3	837.2	805.6	767.1	713.3	669.6
50°	1247.1	1388.5	1279.5	1066.0	909.7	822.5	778.9	753.4	719.8	677.4	635.7
52.5°	1100.2	1252.0	1186.8	997.7	845.4	765.7	723.1	702.1	675.4	635.6	597.9
55°	897.2	1051.0	1036.1	894.7	749.0	677.4	645.1	621.4	603.3	573.5	543.6
57.5°	725.7	871.6	879.2	780.1	664.1	593.3	565.5	547.6	535.8	513.3	485.7
60°	617.7	751.5	777.7	703.0	603.3	541.1	513.7	499.3	490.0	472.0	450.8
62.5°	528.0	641.9	671.5	617.7	545.0	486.8	465.3	451.5	445.2	429.6	410.9
65°	404.1	498.8	527.4	497.5	459.5	412.8	395.4	383.6	378.0	369.2	355.5
67.5°	303.9	372.8	404.3	383.2	369.5	339.9	328.8	322.5	317.5	311.6	300.1
70°	244.1	295.1	327.5	321.9	310.7	295.1	287.0	282.7	277.7	272.7	262.8
72.5°	196.2	231.4	261.7	264.6	255.4	252.3	245.2	243.4	240.3	234.3	228.9
75°	130.2	154.4	175.5	183.7	187.4	190.5	187.4	186.8	186.2	181.2	178.1
77.5°	85.3	98.4	111.7	125.6	131.3	135.6	136.6	138.9	137.2	134.6	133.1
80°	65.4	68.5	77.8	89.7	99.0	102.7	105.2	106.5	105.8	105.2	102.7
82.5°	47.5	50.1	54.4	62.7	70.6	76.8	78.3	78.1	79.5	79.9	77.8
85°	25.5	26.1	27.4	28.7	33.0	39.8	41.7	42.9	44.2	44.2	40.5
87.5°	11.0	10.0	10.5	10.2	11.4	11.4	14.1	16.2	17.0	15.4	15.8
90°	15.1	12.7	10.3	8.7	7.1	4.8	3.2	1.6	3.2	4.8	7.1
92.5°	100.4	66.4	45.7	34.0	27.3	21.2	14.6	9.8	14.6	21.2	27.3
95°	287.8	170.0	102.8	71.9	51.4	37.9	29.2	26.9	29.2	37.9	51.4
97.5°	315.8	183.0	118.7	85.4	65.1	53.5	46.7	45.9	46.7	53.5	65.1
100°	298.1	181.1	125.7	94.9	75.9	64.9	59.3	58.5	59.3	64.9	75.9
102.5°	282.9	183.6	134.0	105.7	88.6	78.1	73.2	71.8	73.2	78.1	88.6
105°	272.0	190.6	147.9	123.3	108.4	98.9	94.1	91.7	94.1	98.9	108.4
107.5°	271.2	203.5	166.0	143.3	129.2	119.9	115.3	112.9	115.3	119.9	129.2
110°	274.4	214.3	178.7	156.5	143.1	134.4	130.5	128.1	130.5	134.4	143.1





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.7	225.1	192.0	170.5	157.0	148.4	144.4	142.0	144.4	148.4	157.0
115°	291.0	242.7	212.7	191.4	177.9	170.0	165.2	162.1	165.2	170.0	177.9
117.5°	304.6	261.6	231.9	212.1	197.0	189.8	185.8	182.2	185.8	189.8	197.0
120°	314.7	273.6	245.1	225.4	210.3	202.4	198.4	196.1	198.4	202.4	210.3
122.5°	324.2	286.2	258.4	237.4	223.0	214.4	210.5	208.1	210.5	214.4	223.0
125°	339.2	304.4	276.8	255.4	240.3	231.7	227.0	225.4	227.0	231.7	240.3
127.5°	351.6	320.3	293.5	272.2	255.6	246.7	240.8	238.5	240.8	246.7	255.6
130°	359.8	329.7	303.6	282.3	265.7	256.2	249.1	246.7	249.1	256.2	265.7
132.5°	367.4	337.9	312.5	291.8	275.2	263.8	256.0	253.0	256.0	263.8	275.2
135°	377.2	350.3	325.7	304.4	287.8	276.0	267.3	264.1	267.3	276.0	287.8
137.5°	384.4	358.9	335.3	315.5	299.0	286.4	277.9	274.6	277.9	286.4	299.0
140°	388.2	364.6	341.6	321.9	306.0	293.3	285.4	281.5	285.4	293.3	306.0
142.5°	392.1	369.0	346.7	328.1	312.4	301.0	292.4	289.1	292.4	301.0	312.4
145°	396.2	374.8	354.3	336.0	322.7	310.8	303.6	301.3	303.6	310.8	322.7
147.5°	398.7	379.5	360.8	345.2	332.2	322.0	315.1	313.6	315.1	322.0	332.2
150°	399.3	382.7	364.6	350.3	339.2	328.9	322.7	321.9	322.7	328.9	339.2
152.5°	400.6	384.6	369.0	355.4	345.5	336.5	330.2	330.0	330.2	336.5	345.5
155°	400.9	388.2	374.8	363.8	355.1	347.1	342.4	342.4	342.4	347.1	355.1
157.5°	401.7	390.3	379.5	371.0	363.6	356.6	352.8	352.2	352.8	356.6	363.6
160°	401.7	392.2	382.7	374.8	369.2	363.0	359.8	359.8	359.8	363.0	369.2
162.5°	401.1	392.8	384.6	378.0	373.0	368.0	365.5	365.5	365.5	368.0	373.0
165°	399.3	393.8	387.5	381.9	378.7	374.8	373.2	374.0	373.2	374.8	378.7
167.5°	398.1	393.6	389.0	385.6	383.3	380.3	379.5	380.5	379.5	380.3	383.3
170°	396.2	393.0	389.0	387.5	385.9	383.5	382.7	384.3	382.7	383.5	385.9
172.5°	395.5	393.0	389.7	388.7	387.8	386.0	385.9	386.8	385.9	386.0	387.8
175°	393.8	392.2	390.6	389.8	389.8	388.2	389.0	389.8	389.0	388.2	389.8
177.5°	392.5	391.3	390.6	390.6	390.6	390.0	390.6	391.3	390.6	390.0	390.6
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



TEST NUMBER: P332380-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1429.6	1423.1	1418.6	1408.7	1402.2	1395.2	1388.2	1392.7	1392.2	1391.7	1391.7
5°	1381.6	1367.3	1354.2	1337.4	1326.8	1313.8	1303.8	1302.5	1305.0	1296.3	1291.3
7.5°	1334.0	1314.5	1295.9	1277.4	1257.7	1242.1	1232.2	1227.6	1221.2	1215.8	1210.3
10°	1300.7	1277.6	1259.6	1236.5	1215.4	1196.7	1184.9	1176.8	1172.4	1168.1	1160.0
12.5°	1266.3	1243.8	1220.8	1194.7	1174.6	1152.9	1144.0	1135.0	1126.6	1121.7	1110.6
15°	1216.0	1186.8	1162.4	1135.0	1112.6	1091.5	1079.0	1061.0	1058.4	1052.3	1041.0
17.5°	1165.5	1133.8	1100.3	1080.0	1054.7	1032.7	1013.8	1007.7	989.8	983.1	973.4
20°	1125.7	1096.5	1071.0	1044.2	1007.4	986.9	971.9	963.8	949.5	940.8	934.5
22.5°	1091.3	1061.6	1032.1	1000.8	970.6	947.5	936.6	924.0	916.2	904.0	897.2
25°	1042.3	1009.9	974.4	940.8	919.0	901.6	884.2	872.9	861.7	856.1	843.7
27.5°	985.2	951.4	918.2	892.7	865.9	848.7	833.0	823.0	809.5	800.1	793.2
30°	953.9	914.0	885.3	862.4	828.1	811.9	800.1	787.7	777.7	767.7	760.9
32.5°	917.5	881.1	854.0	825.5	799.2	781.5	766.2	755.3	746.8	737.3	730.5
35°	860.5	830.0	801.9	773.3	754.0	735.9	717.9	708.5	700.4	691.7	685.6
37.5°	808.9	780.4	753.8	726.6	702.7	688.0	673.4	666.3	655.4	649.5	643.2
40°	777.1	749.0	720.4	694.3	669.3	658.1	645.1	634.5	624.5	620.1	613.3
42.5°	742.2	714.2	690.0	661.9	641.4	626.2	614.2	602.6	595.1	588.7	584.9
45°	690.5	665.6	641.9	613.9	594.6	581.5	567.8	557.2	550.4	546.1	539.2
47.5°	640.3	615.4	591.4	567.0	548.3	533.4	519.7	512.3	503.2	497.9	493.2
50°	604.0	581.5	556.0	533.6	514.9	499.9	488.8	479.4	471.3	464.5	461.4
52.5°	570.6	546.7	524.7	503.7	484.0	467.1	456.9	447.0	440.9	433.1	429.5
55°	515.6	492.5	473.8	453.3	434.0	419.6	407.2	398.5	392.3	383.6	378.6
57.5°	463.8	443.2	420.9	403.1	383.2	371.1	360.8	349.0	341.4	334.5	329.6
60°	429.0	405.4	386.0	369.2	351.8	336.2	326.9	317.5	309.4	302.6	298.3
62.5°	392.6	371.9	353.6	335.3	319.4	305.9	295.0	287.2	280.0	275.7	271.3
65°	336.8	320.7	302.0	287.0	272.1	262.1	253.4	246.5	241.6	238.4	234.7
67.5°	285.5	269.8	253.5	238.8	228.9	221.3	215.6	209.7	207.2	203.2	200.7
70°	252.2	236.0	221.7	210.5	200.5	194.9	191.2	186.8	184.3	179.4	176.8
72.5°	215.8	204.1	193.8	184.6	176.6	171.5	166.8	161.4	157.4	151.9	149.4
75°	170.0	159.4	151.3	145.0	140.1	133.2	126.4	120.8	118.9	117.1	116.5
77.5°	125.9	119.1	113.3	108.1	101.9	96.9	95.4	94.1	93.8	92.8	92.8
80°	99.0	92.8	88.4	82.1	78.4	78.4	78.4	77.2	77.8	77.8	77.8
82.5°	73.6	67.9	65.5	63.3	62.5	63.0	63.0	63.3	62.9	63.8	63.4
85°	37.9	38.6	39.8	39.2	39.8	39.8	41.1	40.5	41.1	39.8	41.1
87.5°	15.7	17.5	18.5	19.4	20.4	20.4	20.8	20.9	21.5	21.7	22.0
90°	8.7	10.3	12.7	15.1	17.4	19.8	19.0	19.8	20.6	21.4	22.9
92.5°	34.0	45.7	66.4	100.4	133.8	121.6	91.7	66.5	52.8	46.7	42.5
95°	71.9	102.8	170.0	287.8	417.5	468.9	380.3	284.6	193.0	151.1	122.6
97.5°	85.4	118.7	183.0	315.8	532.0	726.7	777.4	709.6	568.4	466.4	371.8
100°	94.9	125.7	181.1	298.1	506.0	748.8	904.6	932.3	868.2	775.7	663.5
102.5°	105.7	134.0	183.6	282.9	468.1	707.7	910.9	1006.3	1004.2	950.3	879.2
105°	123.3	147.9	190.6	272.0	421.4	635.7	862.7	1027.9	1107.1	1122.0	1101.5
107.5°	143.3	166.0	203.5	271.2	391.7	572.2	778.2	965.7	1094.1	1163.3	1191.5
110°	156.5	178.7	214.3	274.4	380.3	536.1	725.1	906.2	1051.7	1151.3	1206.7



TEST NUMBER: P332380-927

CATALOG NUMBER: S123RDIP-S1165D1025U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.5	192.0	225.1	280.7	374.0	512.1	678.9	847.3	996.0	1107.6	1178.8
115°	191.4	212.7	242.7	291.0	371.6	486.3	623.1	769.4	907.0	1023.2	1109.4
117.5°	212.1	231.9	261.6	304.6	373.0	471.1	589.4	713.0	831.7	936.0	1023.5
120°	225.4	245.1	273.6	314.7	375.6	464.1	571.7	683.2	790.0	884.9	964.7
122.5°	237.4	258.4	286.2	324.2	380.0	459.7	557.1	659.8	756.5	844.4	918.5
125°	255.4	276.8	304.4	339.2	386.7	453.9	538.5	628.7	714.9	790.8	854.0
127.5°	272.2	293.5	320.3	351.6	394.3	451.1	522.0	601.4	678.3	746.8	804.3
130°	282.3	303.6	329.7	359.8	399.3	449.2	513.2	584.4	655.5	719.5	773.3
132.5°	291.8	312.5	337.9	367.4	403.1	448.5	504.9	568.5	634.0	693.6	744.9
135°	304.4	325.7	350.3	377.2	408.8	447.6	494.2	547.2	603.3	654.7	699.8
137.5°	315.5	335.3	358.9	384.4	412.6	445.8	484.9	527.8	573.8	618.1	657.1
140°	321.9	341.6	364.6	388.2	415.1	445.2	479.2	516.3	556.7	594.6	628.7
142.5°	328.1	346.7	369.0	392.1	417.0	443.9	474.1	505.6	540.3	573.1	602.7
145°	336.0	354.3	374.8	396.2	418.3	442.0	467.3	492.7	518.7	544.0	567.0
147.5°	345.2	360.8	379.5	398.7	418.3	439.0	460.7	482.0	502.7	523.2	539.5
150°	350.3	364.6	382.7	399.3	418.3	436.5	456.2	474.4	492.7	509.2	524.3
152.5°	355.4	369.0	384.6	400.6	416.4	433.3	451.2	467.5	483.2	497.9	510.3
155°	363.8	374.8	388.2	400.9	414.3	427.8	443.6	457.0	469.7	481.6	491.1
157.5°	371.0	379.5	390.3	401.7	411.7	422.9	435.1	446.0	456.5	465.7	473.2
160°	374.8	382.7	392.2	401.7	410.4	419.1	429.4	439.7	448.4	456.2	461.8
162.5°	378.0	384.6	392.8	401.1	407.9	415.3	423.7	432.1	439.5	446.8	451.7
165°	381.9	387.5	393.8	399.3	404.1	409.6	415.9	422.2	427.0	432.5	436.5
167.5°	385.6	389.0	393.6	398.1	400.3	403.9	408.5	413.7	417.3	420.5	423.3
170°	387.5	389.0	393.0	396.2	397.8	400.1	404.1	408.1	410.4	413.5	415.1
172.5°	388.7	389.7	393.0	395.5	395.9	397.0	399.7	403.0	404.7	407.3	408.2
175°	389.8	390.6	392.2	393.8	393.0	393.0	394.6	396.2	397.0	398.5	398.5
177.5°	390.6	390.6	391.3	392.5	391.3	390.6	391.3	391.9	392.5	393.2	393.2
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



TEST NUMBER: P332380-927

CATALOG NUMBER: S123RDIP-S1165D1025U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1385.8	1385.2	1385.8	1383.7	1385.8	1385.2	1385.8	1391.7	1391.7	1392.2	1392.7
5°	1289.4	1288.9	1287.0	1281.4	1287.0	1288.9	1289.4	1291.3	1296.3	1305.0	1302.5
7.5°	1205.4	1204.5	1199.0	1199.2	1199.0	1204.5	1205.4	1210.3	1215.8	1221.2	1227.6
10°	1155.6	1156.2	1148.7	1144.4	1148.7	1156.2	1155.6	1160.0	1168.1	1172.4	1176.8
12.5°	1107.3	1104.5	1098.4	1093.6	1098.4	1104.5	1107.3	1110.6	1121.7	1126.6	1135.0
15°	1043.5	1037.3	1022.4	1023.6	1022.4	1037.3	1043.5	1041.0	1052.3	1058.4	1061.0
17.5°	968.4	963.8	963.6	954.9	963.6	963.8	968.4	973.4	983.1	989.8	1007.7
20°	924.6	921.5	922.7	914.0	922.7	921.5	924.6	934.5	940.8	949.5	963.8
22.5°	890.3	887.1	881.9	879.2	881.9	887.1	890.3	897.2	904.0	916.2	924.0
25°	840.0	835.0	830.0	833.1	830.0	835.0	840.0	843.7	856.1	861.7	872.9
27.5°	789.6	785.9	780.9	780.3	780.9	785.9	789.6	793.2	800.1	809.5	823.0
30°	757.7	754.0	751.5	748.4	751.5	754.0	757.7	760.9	767.7	777.7	787.7
32.5°	725.4	724.6	720.2	719.5	720.2	724.6	725.4	730.5	737.3	746.8	755.3
35°	683.0	679.3	678.0	678.7	678.0	679.3	683.0	685.6	691.7	700.4	708.5
37.5°	642.8	637.8	635.6	633.3	635.6	637.8	642.8	643.2	649.5	655.4	666.3
40°	613.9	609.0	607.7	606.4	607.7	609.0	613.9	613.3	620.1	624.5	634.5
42.5°	581.5	579.6	578.8	576.6	578.8	579.6	581.5	584.9	588.7	595.1	602.6
45°	537.3	536.7	533.0	534.2	533.0	536.7	537.3	539.2	546.1	550.4	557.2
47.5°	490.8	488.0	485.4	487.1	485.4	488.0	490.8	493.2	497.9	503.2	512.3
50°	458.9	457.6	452.0	453.3	452.0	457.6	458.9	461.4	464.5	471.3	479.4
52.5°	427.0	422.2	420.2	419.4	420.2	422.2	427.0	429.5	433.1	440.9	447.0
55°	374.2	368.6	366.1	364.9	366.1	368.6	374.2	378.6	383.6	392.3	398.5
57.5°	322.4	320.9	318.9	320.3	318.9	320.9	322.4	329.6	334.5	341.4	349.0
60°	292.0	292.0	292.0	291.4	292.0	292.0	292.0	298.3	302.6	309.4	317.5
62.5°	268.6	267.1	266.6	267.5	266.6	267.1	268.6	271.3	275.7	280.0	287.2
65°	232.9	232.3	229.7	229.1	229.7	232.3	232.9	234.7	238.4	241.6	246.5
67.5°	199.2	196.9	196.1	195.3	196.1	196.9	199.2	200.7	203.2	207.2	209.7
70°	173.7	172.5	168.7	169.4	168.7	172.5	173.7	176.8	179.4	184.3	186.8
72.5°	146.3	145.0	144.3	143.5	144.3	145.0	146.3	149.4	151.9	157.4	161.4
75°	115.8	115.2	114.5	117.1	114.5	115.2	115.8	116.5	117.1	118.9	120.8
77.5°	92.8	92.8	93.2	92.1	93.2	92.8	92.8	92.8	92.8	93.8	94.1
80°	77.8	77.8	77.2	77.2	77.2	77.8	77.8	77.8	77.8	77.8	77.2
82.5°	62.4	62.9	63.3	62.3	63.3	62.9	62.4	63.4	63.8	62.9	63.3
85°	41.1	40.5	41.7	41.1	41.7	40.5	41.1	41.1	39.8	41.1	40.5
87.5°	22.9	22.0	22.2	22.5	22.2	22.0	22.9	22.0	21.7	21.5	20.9
90°	22.1	22.9	23.7	22.9	23.7	22.9	22.1	22.9	21.4	20.6	19.8
92.5°	41.1	38.7	39.5	38.1	39.5	38.7	41.1	42.5	46.7	52.8	66.5
95°	107.6	100.4	94.9	91.7	94.9	100.4	107.6	122.6	151.1	193.0	284.6
97.5°	313.5	277.9	256.5	249.7	256.5	277.9	313.5	371.8	466.4	568.4	709.6
100°	583.6	525.9	495.0	495.8	495.0	525.9	583.6	663.5	775.7	868.2	932.3
102.5°	817.0	771.3	745.5	727.3	745.5	771.3	817.0	879.2	950.3	1004.2	1006.3
105°	1065.1	1035.1	1009.8	1005.8	1009.8	1035.1	1065.1	1101.5	1122.0	1107.1	1027.9
107.5°	1192.2	1182.0	1173.5	1166.2	1173.5	1182.0	1192.2	1191.5	1163.3	1094.1	965.7
110°	1228.8	1235.2	1233.6	1232.0	1233.6	1235.2	1228.8	1206.7	1151.3	1051.7	906.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1219.3	1238.9	1244.9	1245.2	1244.9	1238.9	1219.3	1178.8	1107.6	996.0	847.3
115°	1168.7	1203.5	1219.3	1223.3	1219.3	1203.5	1168.7	1109.4	1023.2	907.0	769.4
117.5°	1085.4	1125.2	1148.0	1153.3	1148.0	1125.2	1085.4	1023.5	936.0	831.7	713.0
120°	1027.1	1071.4	1090.4	1095.2	1090.4	1071.4	1027.1	964.7	884.9	790.0	683.2
122.5°	974.1	1013.9	1034.7	1040.8	1034.7	1013.9	974.1	918.5	844.4	756.5	659.8
125°	904.6	939.4	959.2	964.7	959.2	939.4	904.6	854.0	790.8	714.9	628.7
127.5°	849.4	879.2	897.0	902.1	897.0	879.2	849.4	804.3	746.8	678.3	601.4
130°	815.2	843.8	860.3	866.6	860.3	843.8	815.2	773.3	719.5	655.5	584.4
132.5°	784.3	812.7	827.4	831.9	827.4	812.7	784.3	744.9	693.6	634.0	568.5
135°	738.6	762.2	776.5	782.0	776.5	762.2	738.6	699.8	654.7	603.3	547.2
137.5°	689.7	713.8	725.7	729.4	725.7	713.8	689.7	657.1	618.1	573.8	527.8
140°	658.7	680.8	693.5	692.7	693.5	680.8	658.7	628.7	594.6	556.7	516.3
142.5°	628.4	647.9	659.3	658.5	659.3	647.9	628.4	602.7	573.1	540.3	505.6
145°	586.7	603.3	609.7	611.2	609.7	603.3	586.7	567.0	544.0	518.7	492.7
147.5°	554.4	565.7	571.7	572.4	571.7	565.7	554.4	539.5	523.2	502.7	482.0
150°	536.1	544.8	549.5	549.5	549.5	544.8	536.1	524.3	509.2	492.7	474.4
152.5°	519.7	527.8	530.6	530.6	530.6	527.8	519.7	510.3	497.9	483.2	467.5
155°	498.2	504.5	506.0	506.8	506.0	504.5	498.2	491.1	481.6	469.7	457.0
157.5°	479.3	484.1	485.4	485.2	485.4	484.1	479.3	473.2	465.7	456.5	446.0
160°	467.3	472.1	472.1	471.3	472.1	472.1	467.3	461.8	456.2	448.4	439.7
162.5°	455.3	459.4	459.4	458.6	459.4	459.4	455.3	451.7	446.8	439.5	432.1
165°	439.7	442.8	442.0	442.0	442.0	442.8	439.7	436.5	432.5	427.0	422.2
167.5°	424.8	427.0	426.2	426.2	426.2	427.0	424.8	423.3	420.5	417.3	413.7
170°	415.9	417.5	416.7	416.7	416.7	417.5	415.9	415.1	413.5	410.4	408.1
172.5°	408.4	410.0	408.5	407.9	408.5	410.0	408.4	408.2	407.3	404.7	403.0
175°	398.5	399.3	398.5	397.8	398.5	399.3	398.5	398.5	398.5	397.0	396.2
177.5°	392.5	393.2	391.9	391.9	391.9	393.2	392.5	393.2	393.2	392.5	391.9
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1388.2	1395.2	1402.2	1408.7	1418.6	1423.1	1429.6	1432.0	1439.6	1450.5	1459.4
5°	1303.8	1313.8	1326.8	1337.4	1354.2	1367.3	1381.6	1395.3	1411.5	1434.6	1455.1
7.5°	1232.2	1242.1	1257.7	1277.4	1295.9	1314.5	1334.0	1352.7	1375.9	1408.9	1441.6
10°	1184.9	1196.7	1215.4	1236.5	1259.6	1277.6	1300.7	1324.4	1353.0	1391.0	1430.2
12.5°	1144.0	1152.9	1174.6	1194.7	1220.8	1243.8	1266.3	1294.0	1326.6	1367.1	1414.2
15°	1079.0	1091.5	1112.6	1135.0	1162.4	1186.8	1216.0	1249.6	1281.4	1331.2	1388.5
17.5°	1013.8	1032.7	1054.7	1080.0	1100.3	1133.8	1165.5	1200.1	1239.1	1292.0	1354.9
20°	971.9	986.9	1007.4	1044.2	1071.0	1096.5	1125.7	1168.7	1204.8	1264.6	1329.9
22.5°	936.6	947.5	970.6	1000.8	1032.1	1061.6	1091.3	1132.3	1176.9	1233.7	1304.6
25°	884.2	901.6	919.0	940.8	974.4	1009.9	1042.3	1077.1	1124.5	1184.9	1261.5
27.5°	833.0	848.7	865.9	892.7	918.2	951.4	985.2	1025.2	1076.0	1140.0	1217.6
30°	800.1	811.9	828.1	862.4	885.3	914.0	953.9	989.4	1036.6	1104.5	1186.8
32.5°	766.2	781.5	799.2	825.5	854.0	881.1	917.5	956.0	1004.3	1071.2	1155.3
35°	717.9	735.9	754.0	773.3	801.9	830.0	860.5	902.9	952.0	1016.8	1099.5
37.5°	673.4	688.0	702.7	726.6	753.8	780.4	808.9	850.6	897.0	966.9	1042.7
40°	645.1	658.1	669.3	694.3	720.4	749.0	777.1	813.8	863.6	929.0	1002.4
42.5°	614.2	626.2	641.4	661.9	690.0	714.2	742.2	776.9	823.7	890.1	954.6
45°	567.8	581.5	594.6	613.9	641.9	665.6	690.5	723.5	771.4	826.2	883.5
47.5°	519.7	533.4	548.3	567.0	591.4	615.4	640.3	669.6	713.3	767.1	805.6
50°	488.8	499.9	514.9	533.6	556.0	581.5	604.0	635.7	677.4	719.8	753.4
52.5°	456.9	467.1	484.0	503.7	524.7	546.7	570.6	597.9	635.6	675.4	702.1
55°	407.2	419.6	434.0	453.3	473.8	492.5	515.6	543.6	573.5	603.3	621.4
57.5°	360.8	371.1	383.2	403.1	420.9	443.2	463.8	485.7	513.3	535.8	547.6
60°	326.9	336.2	351.8	369.2	386.0	405.4	429.0	450.8	472.0	490.0	499.3
62.5°	295.0	305.9	319.4	335.3	353.6	371.9	392.6	410.9	429.6	445.2	451.5
65°	253.4	262.1	272.1	287.0	302.0	320.7	336.8	355.5	369.2	378.0	383.6
67.5°	215.6	221.3	228.9	238.8	253.5	269.8	285.5	300.1	311.6	317.5	322.5
70°	191.2	194.9	200.5	210.5	221.7	236.0	252.2	262.8	272.7	277.7	282.7
72.5°	166.8	171.5	176.6	184.6	193.8	204.1	215.8	228.9	234.3	240.3	243.4
75°	126.4	133.2	140.1	145.0	151.3	159.4	170.0	178.1	181.2	186.2	186.8
77.5°	95.4	96.9	101.9	108.1	113.3	119.1	125.9	133.1	134.6	137.2	138.9
80°	78.4	78.4	78.4	82.1	88.4	92.8	99.0	102.7	105.2	105.8	106.5
82.5°	63.0	63.0	62.5	63.3	65.5	67.9	73.6	77.8	79.9	79.5	78.1
85°	41.1	39.8	39.8	39.2	39.8	38.6	37.9	40.5	44.2	44.2	42.9
87.5°	20.8	20.4	20.4	19.4	18.5	17.5	15.7	15.8	15.4	17.0	16.2
90°	19.0	19.8	17.4	15.1	12.7	10.3	8.7	7.1	4.8	3.2	1.6
92.5°	91.7	121.6	133.8	100.4	66.4	45.7	34.0	27.3	21.2	14.6	9.8
95°	380.3	468.9	417.5	287.8	170.0	102.8	71.9	51.4	37.9	29.2	26.9
97.5°	777.4	726.7	532.0	315.8	183.0	118.7	85.4	65.1	53.5	46.7	45.9
100°	904.6	748.8	506.0	298.1	181.1	125.7	94.9	75.9	64.9	59.3	58.5
102.5°	910.9	707.7	468.1	282.9	183.6	134.0	105.7	88.6	78.1	73.2	71.8
105°	862.7	635.7	421.4	272.0	190.6	147.9	123.3	108.4	98.9	94.1	91.7
107.5°	778.2	572.2	391.7	271.2	203.5	166.0	143.3	129.2	119.9	115.3	112.9
110°	725.1	536.1	380.3	274.4	214.3	178.7	156.5	143.1	134.4	130.5	128.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	678.9	512.1	374.0	280.7	225.1	192.0	170.5	157.0	148.4	144.4	142.0
115°	623.1	486.3	371.6	291.0	242.7	212.7	191.4	177.9	170.0	165.2	162.1
117.5°	589.4	471.1	373.0	304.6	261.6	231.9	212.1	197.0	189.8	185.8	182.2
120°	571.7	464.1	375.6	314.7	273.6	245.1	225.4	210.3	202.4	198.4	196.1
122.5°	557.1	459.7	380.0	324.2	286.2	258.4	237.4	223.0	214.4	210.5	208.1
125°	538.5	453.9	386.7	339.2	304.4	276.8	255.4	240.3	231.7	227.0	225.4
127.5°	522.0	451.1	394.3	351.6	320.3	293.5	272.2	255.6	246.7	240.8	238.5
130°	513.2	449.2	399.3	359.8	329.7	303.6	282.3	265.7	256.2	249.1	246.7
132.5°	504.9	448.5	403.1	367.4	337.9	312.5	291.8	275.2	263.8	256.0	253.0
135°	494.2	447.6	408.8	377.2	350.3	325.7	304.4	287.8	276.0	267.3	264.1
137.5°	484.9	445.8	412.6	384.4	358.9	335.3	315.5	299.0	286.4	277.9	274.6
140°	479.2	445.2	415.1	388.2	364.6	341.6	321.9	306.0	293.3	285.4	281.5
142.5°	474.1	443.9	417.0	392.1	369.0	346.7	328.1	312.4	301.0	292.4	289.1
145°	467.3	442.0	418.3	396.2	374.8	354.3	336.0	322.7	310.8	303.6	301.3
147.5°	460.7	439.0	418.3	398.7	379.5	360.8	345.2	332.2	322.0	315.1	313.6
150°	456.2	436.5	418.3	399.3	382.7	364.6	350.3	339.2	328.9	322.7	321.9
152.5°	451.2	433.3	416.4	400.6	384.6	369.0	355.4	345.5	336.5	330.2	330.0
155°	443.6	427.8	414.3	400.9	388.2	374.8	363.8	355.1	347.1	342.4	342.4
157.5°	435.1	422.9	411.7	401.7	390.3	379.5	371.0	363.6	356.6	352.8	352.2
160°	429.4	419.1	410.4	401.7	392.2	382.7	374.8	369.2	363.0	359.8	359.8
162.5°	423.7	415.3	407.9	401.1	392.8	384.6	378.0	373.0	368.0	365.5	365.5
165°	415.9	409.6	404.1	399.3	393.8	387.5	381.9	378.7	374.8	373.2	374.0
167.5°	408.5	403.9	400.3	398.1	393.6	389.0	385.6	383.3	380.3	379.5	380.5
170°	404.1	400.1	397.8	396.2	393.0	389.0	387.5	385.9	383.5	382.7	384.3
172.5°	399.7	397.0	395.9	395.5	393.0	389.7	388.7	387.8	386.0	385.9	386.8
175°	394.6	393.0	393.0	393.8	392.2	390.6	389.8	389.8	388.2	389.0	389.8
177.5°	391.3	390.6	391.3	392.5	391.3	390.6	390.6	390.6	390.0	390.6	391.3
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



TEST NUMBER: P332380-927

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1462.4	1467.9	1474.9	1485.3	1493.3	1500.3	1501.8	1503.8	1508.8	1517.2	1523.7
5°	1471.9	1486.2	1509.3	1531.7	1555.9	1575.9	1594.6	1607.7	1620.1	1646.2	1667.4
7.5°	1468.9	1500.8	1536.9	1577.2	1617.9	1657.3	1693.9	1726.6	1759.3	1797.4	1840.9
10°	1466.9	1504.3	1552.8	1604.5	1661.2	1716.6	1770.1	1811.9	1860.4	1904.0	1959.4
12.5°	1457.5	1511.2	1569.3	1635.4	1705.0	1768.9	1839.4	1897.0	1952.6	2015.5	2080.0
15°	1445.1	1510.5	1584.0	1671.7	1777.6	1854.8	1927.1	2027.3	2095.8	2164.2	2256.5
17.5°	1422.6	1502.4	1594.2	1708.3	1796.5	1900.3	2009.0	2088.2	2180.5	2277.0	2360.4
20°	1404.6	1497.5	1600.1	1712.2	1825.0	1937.6	2042.9	2137.5	2232.8	2344.2	2412.7
22.5°	1386.7	1478.5	1585.2	1704.3	1825.4	1944.1	2063.2	2174.4	2281.6	2394.1	2481.4
25°	1348.6	1457.6	1573.4	1694.8	1814.3	1945.1	2087.1	2211.0	2343.6	2459.4	2542.2
27.5°	1310.0	1409.8	1525.2	1648.4	1781.2	1935.8	2102.8	2243.6	2376.5	2459.4	2485.4
30°	1275.2	1381.0	1486.8	1612.0	1755.8	1928.3	2105.7	2267.0	2376.0	2412.0	2385.3
32.5°	1239.8	1335.7	1440.5	1568.7	1721.4	1909.9	2109.7	2253.0	2318.6	2291.1	2182.1
35°	1177.4	1263.9	1365.4	1493.7	1669.3	1899.7	2093.3	2190.4	2174.2	2018.6	1813.1
37.5°	1110.6	1181.1	1275.2	1409.3	1615.3	1859.2	2022.5	2036.9	1896.8	1657.8	1420.5
40°	1057.9	1121.3	1217.9	1358.0	1573.4	1819.3	1951.3	1893.4	1676.1	1410.2	1212.3
42.5°	1006.5	1060.1	1153.1	1304.2	1533.5	1765.1	1845.2	1719.1	1468.4	1217.0	1037.0
45°	919.6	970.0	1063.4	1218.5	1452.0	1661.2	1650.6	1431.4	1180.5	978.2	828.7
47.5°	837.2	881.3	968.9	1127.2	1356.2	1505.5	1406.5	1173.3	960.4	798.1	691.5
50°	778.9	822.5	909.7	1066.0	1279.5	1388.5	1247.1	1022.4	827.5	693.0	608.3
52.5°	723.1	765.7	845.4	997.7	1186.8	1252.0	1100.2	891.8	729.4	613.3	540.6
55°	645.1	677.4	749.0	894.7	1036.1	1051.0	897.2	722.9	589.0	508.1	458.3
57.5°	565.5	593.3	664.1	780.1	879.2	871.6	725.7	575.0	484.8	424.6	388.5
60°	513.7	541.1	603.3	703.0	777.7	751.5	617.7	496.2	419.1	374.9	346.2
62.5°	465.3	486.8	545.0	617.7	671.5	641.9	528.0	427.5	366.2	329.0	306.3
65°	395.4	412.8	459.5	497.5	527.4	498.8	404.1	334.4	290.2	264.0	248.4
67.5°	328.8	339.9	369.5	383.2	404.3	372.8	303.9	257.1	232.0	209.9	199.2
70°	287.0	295.1	310.7	321.9	327.5	295.1	244.1	209.8	188.6	173.1	166.3
72.5°	245.2	252.3	255.4	264.6	261.7	231.4	196.2	169.0	153.8	143.2	134.4
75°	187.4	190.5	187.4	183.7	175.5	154.4	130.2	116.5	105.2	100.2	97.1
77.5°	136.6	135.6	131.3	125.6	111.7	98.4	85.3	80.7	75.8	73.2	72.1
80°	105.2	102.7	99.0	89.7	77.8	68.5	65.4	62.3	60.4	57.3	56.6
82.5°	78.3	76.8	70.6	62.7	54.4	50.1	47.5	46.3	44.4	42.9	42.7
85°	41.7	39.8	33.0	28.7	27.4	26.1	25.5	25.5	23.1	22.4	22.4
87.5°	14.1	11.4	11.4	10.2	10.5	10.0	11.0	10.5	10.5	10.8	9.9
90°	3.2	4.8	7.1	8.7	10.3	12.7	15.1	17.4	19.8	19.0	19.8
92.5°	14.6	21.2	27.3	34.0	45.7	66.4	100.4	133.8	121.6	91.7	66.5
95°	29.2	37.9	51.4	71.9	102.8	170.0	287.8	417.5	468.9	380.3	284.6
97.5°	46.7	53.5	65.1	85.4	118.7	183.0	315.8	532.0	726.7	777.4	709.6
100°	59.3	64.9	75.9	94.9	125.7	181.1	298.1	506.0	748.8	904.6	932.3
102.5°	73.2	78.1	88.6	105.7	134.0	183.6	282.9	468.1	707.7	910.9	1006.3
105°	94.1	98.9	108.4	123.3	147.9	190.6	272.0	421.4	635.7	862.7	1027.9
107.5°	115.3	119.9	129.2	143.3	166.0	203.5	271.2	391.7	572.2	778.2	965.7
110°	130.5	134.4	143.1	156.5	178.7	214.3	274.4	380.3	536.1	725.1	906.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.4	148.4	157.0	170.5	192.0	225.1	280.7	374.0	512.1	678.9	847.3
115°	165.2	170.0	177.9	191.4	212.7	242.7	291.0	371.6	486.3	623.1	769.4
117.5°	185.8	189.8	197.0	212.1	231.9	261.6	304.6	373.0	471.1	589.4	713.0
120°	198.4	202.4	210.3	225.4	245.1	273.6	314.7	375.6	464.1	571.7	683.2
122.5°	210.5	214.4	223.0	237.4	258.4	286.2	324.2	380.0	459.7	557.1	659.8
125°	227.0	231.7	240.3	255.4	276.8	304.4	339.2	386.7	453.9	538.5	628.7
127.5°	240.8	246.7	255.6	272.2	293.5	320.3	351.6	394.3	451.1	522.0	601.4
130°	249.1	256.2	265.7	282.3	303.6	329.7	359.8	399.3	449.2	513.2	584.4
132.5°	256.0	263.8	275.2	291.8	312.5	337.9	367.4	403.1	448.5	504.9	568.5
135°	267.3	276.0	287.8	304.4	325.7	350.3	377.2	408.8	447.6	494.2	547.2
137.5°	277.9	286.4	299.0	315.5	335.3	358.9	384.4	412.6	445.8	484.9	527.8
140°	285.4	293.3	306.0	321.9	341.6	364.6	388.2	415.1	445.2	479.2	516.3
142.5°	292.4	301.0	312.4	328.1	346.7	369.0	392.1	417.0	443.9	474.1	505.6
145°	303.6	310.8	322.7	336.0	354.3	374.8	396.2	418.3	442.0	467.3	492.7
147.5°	315.1	322.0	332.2	345.2	360.8	379.5	398.7	418.3	439.0	460.7	482.0
150°	322.7	328.9	339.2	350.3	364.6	382.7	399.3	418.3	436.5	456.2	474.4
152.5°	330.2	336.5	345.5	355.4	369.0	384.6	400.6	416.4	433.3	451.2	467.5
155°	342.4	347.1	355.1	363.8	374.8	388.2	400.9	414.3	427.8	443.6	457.0
157.5°	352.8	356.6	363.6	371.0	379.5	390.3	401.7	411.7	422.9	435.1	446.0
160°	359.8	363.0	369.2	374.8	382.7	392.2	401.7	410.4	419.1	429.4	439.7
162.5°	365.5	368.0	373.0	378.0	384.6	392.8	401.1	407.9	415.3	423.7	432.1
165°	373.2	374.8	378.7	381.9	387.5	393.8	399.3	404.1	409.6	415.9	422.2
167.5°	379.5	380.3	383.3	385.6	389.0	393.6	398.1	400.3	403.9	408.5	413.7
170°	382.7	383.5	385.9	387.5	389.0	393.0	396.2	397.8	400.1	404.1	408.1
172.5°	385.9	386.0	387.8	388.7	389.7	393.0	395.5	395.9	397.0	399.7	403.0
175°	389.0	388.2	389.8	389.8	390.6	392.2	393.8	393.0	393.0	394.6	396.2
177.5°	390.6	390.0	390.6	390.6	390.6	391.3	392.5	391.3	390.6	391.3	391.9
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1534.1	1534.1	1536.1	1543.6	1544.6	1551.1	1549.1
5°	1686.1	1697.9	1702.2	1720.9	1732.2	1737.2	1727.2
7.5°	1871.8	1905.3	1921.0	1940.6	1958.0	1963.2	1949.6
10°	2007.4	2042.2	2071.5	2089.5	2106.3	2117.6	2131.9
12.5°	2138.3	2181.2	2209.0	2234.5	2251.8	2266.0	2268.3
15°	2280.7	2345.4	2394.6	2430.7	2448.8	2458.1	2454.4
17.5°	2424.2	2484.3	2519.3	2556.1	2581.2	2582.4	2583.1
20°	2505.4	2564.0	2604.5	2631.9	2659.9	2658.6	2664.8
22.5°	2559.8	2605.8	2636.9	2656.7	2666.3	2661.7	2662.8
25°	2585.1	2598.8	2593.3	2561.5	2553.4	2524.1	2529.1
27.5°	2454.2	2389.4	2322.4	2236.3	2168.3	2113.9	2116.7
30°	2276.3	2161.8	2031.0	1921.4	1823.0	1795.6	1737.2
32.5°	2027.7	1855.9	1702.8	1600.7	1516.2	1493.3	1442.2
35°	1606.4	1439.6	1282.0	1187.3	1150.0	1097.7	1097.1
37.5°	1248.6	1101.7	1018.4	947.4	910.1	878.5	875.4
40°	1050.4	935.8	872.9	821.9	785.1	761.4	755.9
42.5°	911.9	819.3	760.3	728.7	700.4	688.2	679.1
45°	744.7	682.4	641.3	612.7	599.6	590.3	585.3
47.5°	622.9	581.1	553.2	534.1	523.5	513.7	516.3
50°	556.7	522.4	501.8	483.8	475.7	468.8	469.4
52.5°	503.4	472.6	456.0	442.9	432.8	428.0	425.6
55°	427.1	407.8	391.0	381.7	376.0	369.2	367.3
57.5°	364.3	349.4	335.7	325.1	323.8	317.2	318.1
60°	322.5	310.1	298.9	293.3	288.9	283.3	285.2
62.5°	288.1	277.7	267.5	262.8	258.5	254.4	255.2
65°	236.0	226.0	219.8	217.3	215.4	213.6	211.7
67.5°	188.1	182.0	178.1	172.7	168.9	168.3	166.4
70°	158.1	150.0	143.2	136.3	134.5	133.9	134.5
72.5°	126.7	121.7	119.8	116.5	116.1	114.5	115.6
75°	95.3	93.4	92.1	89.7	89.7	89.7	89.7
77.5°	70.3	69.1	68.4	67.9	67.3	66.4	66.2
80°	54.8	54.2	52.9	52.9	52.3	52.9	52.3
82.5°	41.4	41.2	40.0	40.0	39.4	39.0	39.4
85°	21.2	20.5	21.8	20.5	21.2	20.0	21.2
87.5°	10.1	10.2	10.1	9.9	9.6	10.7	9.6
90°	20.6	21.4	22.9	22.1	22.9	23.7	22.9
92.5°	52.8	46.7	42.5	41.1	38.7	39.5	38.1
95°	193.0	151.1	122.6	107.6	100.4	94.9	91.7
97.5°	568.4	466.4	371.8	313.5	277.9	256.5	249.7
100°	868.2	775.7	663.5	583.6	525.9	495.0	495.8
102.5°	1004.2	950.3	879.2	817.0	771.3	745.5	727.3
105°	1107.1	1122.0	1101.5	1065.1	1035.1	1009.8	1005.8
107.5°	1094.1	1163.3	1191.5	1192.2	1182.0	1173.5	1166.2
110°	1051.7	1151.3	1206.7	1228.8	1235.2	1233.6	1232.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	996.0	1107.6	1178.8	1219.3	1238.9	1244.9	1245.2
115°	907.0	1023.2	1109.4	1168.7	1203.5	1219.3	1223.3
117.5°	831.7	936.0	1023.5	1085.4	1125.2	1148.0	1153.3
120°	790.0	884.9	964.7	1027.1	1071.4	1090.4	1095.2
122.5°	756.5	844.4	918.5	974.1	1013.9	1034.7	1040.8
125°	714.9	790.8	854.0	904.6	939.4	959.2	964.7
127.5°	678.3	746.8	804.3	849.4	879.2	897.0	902.1
130°	655.5	719.5	773.3	815.2	843.8	860.3	866.6
132.5°	634.0	693.6	744.9	784.3	812.7	827.4	831.9
135°	603.3	654.7	699.8	738.6	762.2	776.5	782.0
137.5°	573.8	618.1	657.1	689.7	713.8	725.7	729.4
140°	556.7	594.6	628.7	658.7	680.8	693.5	692.7
142.5°	540.3	573.1	602.7	628.4	647.9	659.3	658.5
145°	518.7	544.0	567.0	586.7	603.3	609.7	611.2
147.5°	502.7	523.2	539.5	554.4	565.7	571.7	572.4
150°	492.7	509.2	524.3	536.1	544.8	549.5	549.5
152.5°	483.2	497.9	510.3	519.7	527.8	530.6	530.6
155°	469.7	481.6	491.1	498.2	504.5	506.0	506.8
157.5°	456.5	465.7	473.2	479.3	484.1	485.4	485.2
160°	448.4	456.2	461.8	467.3	472.1	472.1	471.3
162.5°	439.5	446.8	451.7	455.3	459.4	459.4	458.6
165°	427.0	432.5	436.5	439.7	442.8	442.0	442.0
167.5°	417.3	420.5	423.3	424.8	427.0	426.2	426.2
170°	410.4	413.5	415.1	415.9	417.5	416.7	416.7
172.5°	404.7	407.3	408.2	408.4	410.0	408.5	407.9
175°	397.0	398.5	398.5	398.5	399.3	398.5	397.8
177.5°	392.5	393.2	393.2	392.5	393.2	391.9	391.9
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6

(END OF REPORT)