

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: P332386-940

Luminaire Tested: **S123RDIP-S1165D1195U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332386-940  
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-S1165D1195U940-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7930.9 lumens  
Efficiency: N/A  
Efficacy: 110.6 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

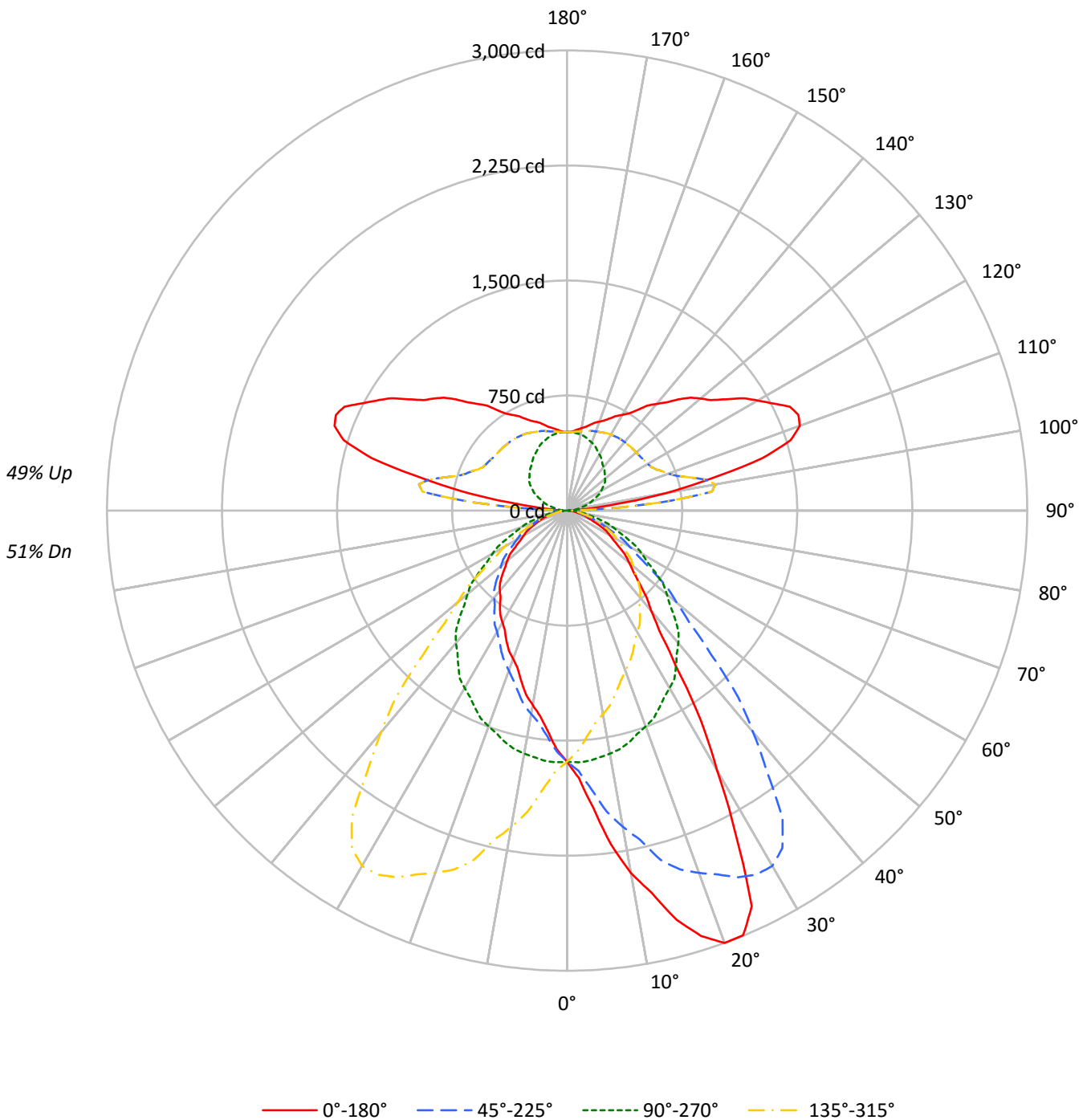
Input Watts (W): 71.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	52	51	50	45
2	90	83	77	73	83	77	72	68	66	62	59	56	53	51	46	44	43	38
3	83	74	67	61	76	69	62	58	59	54	50	50	46	44	41	39	37	33
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	37	35	32	29
5	70	59	51	45	65	55	48	43	47	42	38	40	36	33	34	31	29	25
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	31	28	25	23
7	60	48	40	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20
8	56	44	36	31	52	41	34	29	36	30	26	31	27	23	26	23	21	18
9	52	40	33	28	48	38	31	26	33	28	24	28	24	21	24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	23	19	17	15

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

	0°	90°	180°	270°
0°	17623	17623	17623	17623
5°	21007	17698	15584	17698
10°	26230	17596	14080	17596
15°	30788	17416	12840	17416
20°	34360	17148	11786	17148
25°	33812	16865	11137	16865
30°	24304	16604	10470	16604
35°	16227	16264	10038	16264
40°	11956	15855	9591	15855
45°	10029	15139	9155	15139
50°	8848	14200	8544	14200
55°	7760	13127	7707	13127
60°	6910	12099	7061	12099
65°	6069	10998	6569	10998
70°	4765	10014	5998	10014
75°	4196	8746	5481	8746
80°	3651	7426	5387	7426
85°	2939	5965	5718	5965



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.0	2.0
10°-20°	503.0	6.3
20°-30°	790.2	10.0
30°-40°	824.4	10.4
40°-50°	705.6	8.9
50°-60°	537.8	6.8
60°-70°	344.7	4.3
70°-80°	165.8	2.1
80°-90°	47.8	0.6
90°-100°	284.8	3.6
100°-110°	806.5	10.2
110°-120°	793.4	10.0
120°-130°	632.8	8.0
130°-140°	498.9	6.3
140°-150°	372.4	4.7
150°-160°	259.6	3.3
160°-170°	152.5	1.9
170°-180°	49.6	0.6
0°-30°	1454.2	18.3
0°-40°	2278.7	28.7
0°-60°	3522.0	44.4
0°-90°	4080.3	51.4
90°-120°	1884.7	23.8
90°-150°	3388.9	42.7
90°-180°	3851.0	48.6
0°-180°	7930.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1637	1637	1637	1637	1637	
5°	1944	1638	1442	1638	1944	201
15°	2763	1563	1152	1563	2763	783
25°	2847	1420	938	1420	2847	1224
35°	1235	1238	764	1238	1235	810
45°	659	994	601	994	659	518
55°	414	700	411	700	414	374
65°	238	432	258	432	238	234
75°	101	210	132	210	101	108
85°	24	48	46	48	24	28
90°	30	2	30	2	30	17
95°	120	35	120	35	120	217
105°	1318	120	1318	120	1318	1300
115°	1603	212	1603	212	1603	1557
125°	1264	295	1264	295	1264	1145
135°	1025	346	1025	346	1025	795
145°	801	395	801	395	801	509
155°	664	449	664	449	664	310
165°	579	490	579	490	579	166
175°	521	511	521	511	521	51
180°	512	512	512	512	512	



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1743.7	1746.0	1738.7	1737.6	1729.1	1726.9	1726.9	1715.1	1707.8	1698.4	1692.7
5°	1944.2	1955.4	1949.8	1937.2	1916.1	1911.2	1897.9	1876.9	1853.1	1823.6	1809.6
7.5°	2194.5	2209.8	2204.0	2184.4	2162.4	2144.7	2107.0	2072.2	2023.2	1980.3	1943.6
10°	2399.8	2383.6	2371.0	2352.1	2331.7	2298.8	2259.6	2205.6	2143.2	2094.2	2039.5
12.5°	2553.3	2550.7	2534.7	2515.2	2486.5	2455.2	2407.0	2341.3	2268.8	2197.9	2135.4
15°	2762.8	2767.0	2756.5	2736.1	2695.5	2640.1	2567.2	2539.9	2436.2	2359.1	2282.0
17.5°	2907.7	2906.9	2905.5	2877.3	2835.8	2796.4	2728.8	2656.9	2563.0	2454.4	2350.5
20°	2999.6	2992.7	2994.1	2962.5	2931.7	2886.1	2820.2	2715.8	2638.8	2513.3	2406.0
22.5°	2997.4	2996.1	3001.3	2990.5	2968.1	2933.2	2881.4	2793.2	2694.8	2568.2	2447.6
25°	2846.9	2841.3	2874.3	2883.3	2919.1	2925.3	2909.9	2861.6	2768.4	2638.0	2488.8
27.5°	2382.7	2379.5	2440.7	2517.2	2614.2	2689.6	2762.5	2797.7	2768.4	2675.0	2525.5
30°	1955.4	2021.2	2052.1	2162.8	2286.2	2433.4	2562.3	2684.9	2715.1	2674.5	2551.8
32.5°	1623.4	1681.0	1706.7	1801.8	1916.7	2089.1	2282.5	2456.2	2578.9	2609.9	2536.1
35°	1234.9	1235.6	1294.5	1336.5	1443.1	1620.4	1808.2	2040.9	2272.2	2447.4	2465.6
37.5°	985.4	988.9	1024.5	1066.4	1146.3	1240.1	1405.5	1598.9	1866.1	2135.1	2292.8
40°	850.9	857.1	883.8	925.1	982.6	1053.4	1182.3	1364.6	1587.4	1886.7	2131.3
42.5°	764.5	774.7	788.5	820.3	855.9	922.2	1026.4	1167.2	1369.9	1652.9	1935.1
45°	658.8	664.4	674.9	689.6	721.8	768.1	838.2	932.8	1101.1	1328.8	1611.2
47.5°	581.1	578.2	589.2	601.2	622.7	654.2	701.2	778.4	898.4	1081.1	1320.7
50°	528.4	527.7	535.5	544.6	564.9	588.0	626.6	684.7	780.1	931.5	1150.8
52.5°	479.1	481.8	487.2	498.6	513.3	532.0	566.6	608.5	690.4	821.0	1003.9
55°	413.5	415.6	423.3	429.6	440.1	459.1	480.8	515.9	571.9	663.0	813.7
57.5°	358.0	357.0	364.4	366.0	377.9	393.3	410.1	437.3	478.0	545.7	647.2
60°	321.0	318.9	325.2	330.1	336.4	349.0	363.0	389.7	422.0	471.7	558.6
62.5°	287.3	286.3	291.0	295.9	301.1	312.5	324.3	344.8	370.3	412.2	481.2
65°	238.3	240.4	242.5	244.6	247.4	254.4	265.6	279.6	297.2	326.6	376.4
67.5°	187.3	189.4	190.1	194.4	200.5	204.8	211.7	224.2	236.3	261.2	289.4
70°	151.4	150.7	151.4	153.5	161.2	168.9	178.0	187.2	194.8	212.3	236.2
72.5°	130.1	128.9	130.6	131.1	134.8	137.0	142.7	151.2	161.2	173.1	190.2
75°	100.9	100.9	100.9	100.9	103.7	105.1	107.3	109.3	112.8	118.4	131.1
77.5°	74.5	74.7	75.7	76.4	77.0	77.8	79.1	81.1	82.4	85.3	90.9
80°	58.9	59.6	58.9	59.6	59.6	61.0	61.7	63.8	64.5	67.9	70.1
82.5°	44.3	43.9	44.3	45.0	45.0	46.4	46.5	48.1	48.2	50.0	52.2
85°	23.8	22.5	23.8	23.1	24.5	23.1	23.8	25.2	25.2	25.9	28.7
87.5°	11.6	12.9	11.6	11.9	12.2	12.3	12.1	11.9	12.8	12.5	12.4
90°	30.1	31.1	30.1	29.0	30.1	28.0	26.9	25.9	24.9	25.9	22.8
92.5°	49.9	51.8	50.7	53.9	55.7	61.1	69.2	87.2	120.2	159.3	175.3
95°	120.2	124.3	131.6	140.9	160.6	197.9	252.8	373.0	498.3	614.4	547.1
97.5°	327.2	336.1	364.1	410.7	487.1	611.1	744.7	929.7	1018.6	952.1	697.1
100°	649.6	648.5	688.9	764.6	869.2	1016.4	1137.6	1221.5	1185.3	981.1	663.1
102.5°	953.0	976.8	1010.6	1070.4	1151.8	1245.1	1315.7	1318.5	1193.5	927.3	613.3
105°	1317.9	1323.0	1356.2	1395.5	1443.2	1470.2	1450.5	1346.8	1130.3	832.9	552.2
107.5°	1527.9	1537.5	1548.6	1561.9	1561.1	1524.2	1433.4	1265.2	1019.7	749.7	513.3
110°	1614.2	1616.2	1618.3	1610.0	1581.0	1508.5	1378.0	1187.3	950.0	702.4	498.3



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1631.6	1631.1	1623.3	1597.6	1544.5	1451.3	1305.0	1110.2	889.6	670.9	490.1
115°	1602.8	1597.6	1576.8	1531.2	1453.6	1340.6	1188.3	1008.1	816.4	637.1	487.0
117.5°	1511.2	1504.1	1474.3	1422.1	1341.0	1226.5	1089.7	934.1	772.2	617.2	488.8
120°	1434.9	1428.7	1403.8	1345.8	1264.0	1159.3	1035.0	895.1	749.0	608.1	492.1
122.5°	1363.6	1355.8	1328.4	1276.2	1203.5	1106.3	991.0	864.4	730.0	602.4	497.9
125°	1264.0	1256.7	1230.8	1185.3	1118.9	1036.0	936.6	823.7	705.5	594.7	506.6
127.5°	1181.9	1175.3	1151.8	1112.9	1053.8	978.4	888.7	788.0	684.0	590.9	516.6
130°	1135.5	1127.2	1105.5	1068.2	1013.3	942.8	858.9	765.6	672.3	588.4	523.2
132.5°	1089.9	1084.1	1064.8	1027.5	976.0	908.8	830.7	744.9	661.6	587.6	528.2
135°	1024.7	1017.4	998.7	967.7	916.9	857.8	790.5	716.9	647.6	586.4	535.7
137.5°	955.6	950.8	935.1	903.7	860.9	809.8	751.7	691.4	635.3	584.1	540.6
140°	907.6	908.6	892.1	863.0	823.7	779.1	729.3	676.5	627.9	583.3	543.9
142.5°	862.8	863.8	848.9	823.2	789.7	750.9	707.8	662.5	621.2	581.7	546.4
145°	800.8	798.8	790.5	768.7	742.8	712.8	679.7	645.4	612.3	579.2	548.0
147.5°	749.8	749.0	741.2	726.5	706.8	685.5	658.7	631.6	603.6	575.2	548.0
150°	720.1	720.1	713.8	702.4	686.9	667.2	645.4	621.6	597.8	571.9	548.0
152.5°	695.2	695.2	691.4	680.9	668.7	652.3	633.0	612.5	591.2	567.8	545.5
155°	664.1	663.1	661.0	652.7	643.4	631.0	615.4	598.8	581.2	560.5	542.9
157.5°	635.7	635.9	634.3	628.0	619.9	610.2	598.2	584.3	570.0	554.1	539.4
160°	617.5	618.5	618.5	612.3	605.0	597.8	587.5	576.0	562.6	549.1	537.7
162.5°	600.9	601.9	601.9	596.6	591.7	585.3	575.9	566.1	555.1	544.1	534.4
165°	579.2	579.2	580.1	576.0	571.9	566.7	559.5	553.2	544.9	536.6	529.4
167.5°	558.4	558.4	559.5	556.5	554.7	551.0	546.8	542.1	535.2	529.2	524.4
170°	546.0	546.0	547.1	544.9	543.9	541.8	537.7	534.6	529.4	524.2	521.1
172.5°	534.4	535.2	537.1	535.0	534.8	533.6	530.2	528.0	523.6	520.0	518.6
175°	521.1	522.2	523.2	522.2	522.2	522.2	520.0	519.1	517.0	514.9	514.9
177.5°	513.4	513.4	515.1	514.2	515.1	515.1	514.2	513.4	512.6	511.8	512.6
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1690.5	1688.8	1681.0	1672.0	1660.2	1652.3	1646.2	1642.8	1632.7	1620.4	1611.9
5°	1794.9	1773.9	1751.4	1724.1	1698.9	1672.9	1656.8	1637.9	1614.8	1588.9	1570.7
7.5°	1906.7	1865.5	1821.1	1775.3	1730.0	1689.3	1653.5	1622.7	1585.9	1548.7	1522.7
10°	1992.5	1932.2	1869.9	1806.1	1747.9	1693.3	1651.2	1609.9	1565.8	1523.0	1490.8
12.5°	2070.5	1991.1	1919.2	1840.8	1766.5	1701.1	1640.6	1591.9	1538.8	1493.3	1456.5
15°	2169.2	2087.9	2000.9	1881.8	1783.0	1700.3	1626.7	1562.9	1498.4	1442.3	1406.6
17.5°	2261.4	2139.0	2022.2	1922.9	1794.5	1691.1	1601.3	1525.1	1454.3	1394.8	1350.9
20°	2299.5	2181.0	2054.2	1927.3	1801.2	1685.6	1581.1	1497.0	1423.4	1356.1	1315.5
22.5°	2322.5	2188.3	2054.8	1918.4	1784.4	1664.3	1560.9	1468.5	1388.7	1324.7	1274.6
25°	2349.3	2189.5	2042.3	1907.7	1771.0	1640.7	1518.0	1420.0	1333.7	1265.8	1212.5
27.5°	2367.0	2179.0	2005.0	1855.5	1716.8	1587.0	1474.6	1370.6	1283.2	1211.2	1154.1
30°	2370.3	2170.5	1976.4	1814.5	1673.7	1554.5	1435.4	1335.9	1243.3	1166.9	1113.7
32.5°	2374.8	2149.8	1937.7	1765.8	1621.5	1503.5	1395.5	1300.5	1205.8	1130.5	1076.1
35°	2356.3	2138.3	1879.0	1681.3	1537.0	1422.7	1325.3	1237.7	1144.5	1071.6	1016.3
37.5°	2276.6	2092.8	1818.2	1586.4	1435.4	1329.5	1250.2	1173.8	1088.3	1009.7	957.5
40°	2196.5	2047.9	1771.0	1528.6	1370.9	1262.2	1190.8	1128.4	1045.7	972.1	916.1
42.5°	2077.1	1986.8	1726.2	1468.0	1298.0	1193.3	1133.0	1074.5	1001.9	927.2	874.5
45°	1858.0	1869.9	1634.4	1371.5	1197.0	1091.9	1035.2	994.5	930.1	868.3	814.4
47.5°	1583.2	1694.7	1526.6	1268.8	1090.7	992.0	942.4	906.9	863.4	802.9	753.7
50°	1403.8	1562.9	1440.3	1199.9	1024.0	925.9	876.7	848.0	810.2	762.5	715.6
52.5°	1238.4	1409.3	1336.0	1123.0	951.6	861.9	814.0	790.3	760.3	715.4	673.0
55°	1010.0	1183.0	1166.3	1007.1	843.1	762.5	726.1	699.5	679.1	645.5	611.9
57.5°	816.9	981.1	989.7	878.2	747.5	667.9	636.5	616.4	603.2	577.8	546.7
60°	695.3	846.0	875.4	791.3	679.1	609.0	578.2	562.0	551.6	531.3	507.4
62.5°	594.3	722.6	755.9	695.4	613.5	548.0	523.8	508.3	501.1	483.6	462.5
65°	454.9	561.4	593.6	560.0	517.2	464.7	445.1	431.8	425.4	415.6	400.2
67.5°	342.1	419.6	455.0	431.3	415.9	382.6	370.1	363.0	357.4	350.7	337.8
70°	274.7	332.2	368.6	362.3	349.7	332.2	323.1	318.2	312.5	307.0	295.8
72.5°	220.9	260.5	294.6	297.8	287.5	284.0	276.0	273.9	270.5	263.8	257.6
75°	146.5	173.8	197.6	206.8	211.0	214.5	211.0	210.3	209.6	203.9	200.5
77.5°	96.0	110.8	125.7	141.3	147.8	152.7	153.7	156.3	154.4	151.5	149.8
80°	73.6	77.1	87.6	100.9	111.5	115.7	118.4	119.8	119.1	118.4	115.7
82.5°	53.4	56.4	61.3	70.6	79.5	86.5	88.2	87.9	89.4	89.9	87.6
85°	28.7	29.4	30.9	32.3	37.2	44.9	47.0	48.3	49.8	49.8	45.6
87.5°	12.9	11.7	12.2	11.8	13.1	13.0	16.0	18.4	19.4	17.5	18.1
90°	19.7	16.6	13.5	11.4	9.4	6.2	4.1	2.1	4.1	6.2	9.4
92.5°	131.6	87.0	59.9	44.6	35.8	27.7	19.1	12.8	19.1	27.7	35.8
95°	377.1	222.7	134.6	94.3	67.3	49.8	38.3	35.2	38.3	49.8	67.3
97.5°	413.8	239.8	155.6	111.9	85.3	70.0	61.1	60.1	61.1	70.0	85.3
100°	390.6	237.3	164.7	124.3	99.4	85.0	77.7	76.7	77.7	85.0	99.4
102.5°	370.7	240.6	175.5	138.4	116.0	102.4	95.9	94.1	95.9	102.4	116.0
105°	356.4	249.7	193.8	161.6	142.0	129.5	123.3	120.2	123.3	129.5	142.0
107.5°	355.3	266.7	217.6	187.7	169.2	157.0	151.1	147.9	151.1	157.0	169.2
110°	359.5	280.8	234.2	205.1	187.5	176.1	170.9	167.8	170.9	176.1	187.5





TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	367.8	294.9	251.6	223.4	205.7	194.4	189.2	186.1	189.2	194.4	205.7
115°	381.3	318.1	278.7	250.7	233.1	222.7	216.5	212.4	216.5	222.7	233.1
117.5°	399.0	342.7	303.8	277.9	258.2	248.6	243.4	238.7	243.4	248.6	258.2
120°	412.3	358.5	321.2	295.2	275.6	265.2	260.0	256.9	260.0	265.2	275.6
122.5°	424.8	375.1	338.6	311.0	292.1	281.0	275.8	272.7	275.8	281.0	292.1
125°	444.4	398.9	362.6	334.7	315.0	303.5	297.4	295.2	297.4	303.5	315.0
127.5°	460.7	419.5	384.6	356.6	334.8	323.2	315.6	312.5	315.6	323.2	334.8
130°	471.4	432.0	397.8	369.9	348.1	335.6	326.4	323.2	326.4	335.6	348.1
132.5°	481.3	442.8	409.5	382.3	360.5	345.6	335.5	331.5	335.5	345.6	360.5
135°	494.2	459.0	426.9	398.9	377.1	361.6	350.2	346.1	350.2	361.6	377.1
137.5°	503.7	470.1	439.3	413.4	391.8	375.2	364.1	359.7	364.1	375.2	391.8
140°	508.7	477.6	447.5	421.7	400.9	384.3	374.0	368.8	374.0	384.3	400.9
142.5°	513.6	483.4	454.2	430.0	409.2	394.3	383.2	378.8	383.2	394.3	409.2
145°	519.1	491.1	464.1	440.3	422.7	407.2	397.8	394.8	397.8	407.2	422.7
147.5°	522.4	497.3	472.6	452.4	435.3	421.9	412.8	410.9	412.8	421.9	435.3
150°	523.2	501.4	477.6	459.0	444.4	431.0	422.7	421.7	422.7	431.0	444.4
152.5°	524.9	503.9	483.4	465.6	452.7	441.0	432.7	432.5	432.7	441.0	452.7
155°	525.3	508.7	491.1	476.5	465.2	454.9	448.6	448.6	448.6	454.9	465.2
157.5°	526.3	511.4	497.3	486.1	476.4	467.3	462.3	461.5	462.3	467.3	476.4
160°	526.3	513.9	501.4	491.1	483.8	475.5	471.4	471.4	471.4	475.5	483.8
162.5°	525.5	514.7	503.9	495.3	488.8	482.1	478.8	478.8	478.8	482.1	488.8
165°	523.2	515.9	507.7	500.4	496.2	491.1	489.0	490.1	489.0	491.1	496.2
167.5°	521.6	515.8	509.7	505.2	502.3	498.3	497.3	498.6	497.3	498.3	502.3
170°	519.1	514.9	509.7	507.7	505.6	502.5	501.4	503.5	501.4	502.5	505.6
172.5°	518.3	514.9	510.6	509.3	508.1	505.8	505.6	506.8	505.6	505.8	508.1
175°	515.9	513.9	511.8	510.8	510.8	508.7	509.7	510.8	509.7	508.7	510.8
177.5°	514.2	512.6	511.8	511.8	511.8	511.0	511.8	512.6	511.8	511.0	511.8
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1609.2	1601.9	1596.9	1585.6	1578.3	1570.5	1562.6	1567.7	1567.1	1566.6	1566.6
5°	1555.2	1539.1	1524.4	1505.5	1493.5	1478.8	1467.6	1466.2	1469.0	1459.2	1453.6
7.5°	1501.6	1479.6	1458.7	1437.9	1415.8	1398.1	1387.0	1381.8	1374.7	1368.6	1362.4
10°	1464.1	1438.2	1417.8	1391.9	1368.1	1347.0	1333.7	1324.6	1319.7	1314.8	1305.7
12.5°	1425.4	1400.1	1374.1	1344.8	1322.1	1297.7	1287.7	1277.6	1268.1	1262.7	1250.2
15°	1368.8	1335.9	1308.5	1277.6	1252.4	1228.6	1214.6	1194.3	1191.4	1184.5	1171.8
17.5°	1312.0	1276.2	1238.6	1215.7	1187.2	1162.4	1141.1	1134.3	1114.2	1106.6	1095.7
20°	1267.1	1234.2	1205.5	1175.4	1134.0	1110.9	1094.0	1084.9	1068.8	1059.0	1052.0
22.5°	1228.4	1195.0	1161.7	1126.6	1092.5	1066.6	1054.3	1040.1	1031.3	1017.5	1010.0
25°	1173.2	1136.8	1096.8	1059.0	1034.5	1014.9	995.2	982.6	970.0	963.7	949.7
27.5°	1109.0	1070.9	1033.6	1004.9	974.7	955.4	937.6	926.4	911.2	900.6	892.9
30°	1073.7	1028.9	996.6	970.7	932.1	913.9	900.6	886.6	875.4	864.2	856.5
32.5°	1032.8	991.8	961.3	929.2	899.6	879.7	862.5	850.2	840.6	829.9	822.2
35°	968.6	934.2	902.7	870.5	848.7	828.4	808.1	797.5	788.5	778.6	771.7
37.5°	910.5	878.4	848.5	817.9	790.9	774.5	758.0	750.0	737.7	731.1	724.0
40°	874.7	843.1	810.9	781.5	753.4	740.8	726.1	714.2	702.9	698.0	690.4
42.5°	835.4	803.9	776.7	745.0	722.0	704.9	691.3	678.3	669.9	662.7	658.4
45°	777.2	749.2	722.6	691.1	669.3	654.6	639.2	627.2	619.6	614.7	606.9
47.5°	720.8	692.8	665.7	638.2	617.2	600.4	585.0	576.7	566.4	560.4	555.2
50°	679.8	654.6	625.9	600.7	579.6	562.8	550.2	539.7	530.6	522.8	519.3
52.5°	642.3	615.4	590.6	566.9	544.8	525.8	514.2	503.2	496.3	487.5	483.5
55°	580.3	554.4	533.3	510.2	488.5	472.3	458.3	448.5	441.6	431.8	426.1
57.5°	522.1	498.9	473.8	453.7	431.3	417.7	406.1	392.8	384.2	376.5	371.0
60°	482.9	456.3	434.5	415.6	396.0	378.4	367.9	357.4	348.3	340.6	335.7
62.5°	441.9	418.7	398.1	377.5	359.5	344.3	332.1	323.2	315.2	310.3	305.4
65°	379.2	361.0	339.9	323.1	306.3	295.1	285.3	277.5	272.0	268.4	264.2
67.5°	321.4	303.7	285.3	268.9	257.6	249.1	242.6	236.0	233.3	228.7	226.0
70°	283.8	265.6	249.5	236.9	225.7	219.4	215.2	210.3	207.4	201.9	199.0
72.5°	242.9	229.7	218.1	207.8	198.8	193.1	187.7	181.6	177.2	171.0	168.2
75°	191.4	179.4	170.3	163.3	157.7	150.0	142.3	136.0	133.8	131.8	131.1
77.5°	141.7	134.1	127.5	121.6	114.7	109.1	107.4	105.9	105.6	104.4	104.4
80°	111.5	104.4	99.5	92.5	88.3	88.3	88.3	86.9	87.6	87.6	87.6
82.5°	82.8	76.4	73.7	71.2	70.4	70.9	70.9	71.2	70.8	71.9	71.3
85°	42.7	43.4	44.9	44.1	44.9	44.9	46.3	45.6	46.3	44.9	46.3
87.5°	18.0	20.1	21.2	22.5	23.6	23.7	24.1	24.3	25.0	25.2	25.6
90°	11.4	13.5	16.6	19.7	22.8	25.9	24.9	25.9	26.9	28.0	30.1
92.5°	44.6	59.9	87.0	131.6	175.3	159.3	120.2	87.2	69.2	61.1	55.7
95°	94.3	134.6	222.7	377.1	547.1	614.4	498.3	373.0	252.8	197.9	160.6
97.5°	111.9	155.6	239.8	413.8	697.1	952.1	1018.6	929.7	744.7	611.1	487.1
100°	124.3	164.7	237.3	390.6	663.1	981.1	1185.3	1221.5	1137.6	1016.4	869.2
102.5°	138.4	175.5	240.6	370.7	613.3	927.3	1193.5	1318.5	1315.7	1245.1	1151.8
105°	161.6	193.8	249.7	356.4	552.2	832.9	1130.3	1346.8	1450.5	1470.2	1443.2
107.5°	187.7	217.6	266.7	355.3	513.3	749.7	1019.7	1265.2	1433.4	1524.2	1561.1
110°	205.1	234.2	280.8	359.5	498.3	702.4	950.0	1187.3	1378.0	1508.5	1581.0



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	223.4	251.6	294.9	367.8	490.1	670.9	889.6	1110.2	1305.0	1451.3	1544.5
115°	250.7	278.7	318.1	381.3	487.0	637.1	816.4	1008.1	1188.3	1340.6	1453.6
117.5°	277.9	303.8	342.7	399.0	488.8	617.2	772.2	934.1	1089.7	1226.5	1341.0
120°	295.2	321.2	358.5	412.3	492.1	608.1	749.0	895.1	1035.0	1159.3	1264.0
122.5°	311.0	338.6	375.1	424.8	497.9	602.4	730.0	864.4	991.0	1106.3	1203.5
125°	334.7	362.6	398.9	444.4	506.6	594.7	705.5	823.7	936.6	1036.0	1118.9
127.5°	356.6	384.6	419.5	460.7	516.6	590.9	684.0	788.0	888.7	978.4	1053.8
130°	369.9	397.8	432.0	471.4	523.2	588.4	672.3	765.6	858.9	942.8	1013.3
132.5°	382.3	409.5	442.8	481.3	528.2	587.6	661.6	744.9	830.7	908.8	976.0
135°	398.9	426.9	459.0	494.2	535.7	586.4	647.6	716.9	790.5	857.8	916.9
137.5°	413.4	439.3	470.1	503.7	540.6	584.1	635.3	691.4	751.7	809.8	860.9
140°	421.7	447.5	477.6	508.7	543.9	583.3	627.9	676.5	729.3	779.1	823.7
142.5°	430.0	454.2	483.4	513.6	546.4	581.7	621.2	662.5	707.8	750.9	789.7
145°	440.3	464.1	491.1	519.1	548.0	579.2	612.3	645.4	679.7	712.8	742.8
147.5°	452.4	472.6	497.3	522.4	548.0	575.2	603.6	631.6	658.7	685.5	706.8
150°	459.0	477.6	501.4	523.2	548.0	571.9	597.8	621.6	645.4	667.2	686.9
152.5°	465.6	483.4	503.9	524.9	545.5	567.8	591.2	612.5	633.0	652.3	668.7
155°	476.5	491.1	508.7	525.3	542.9	560.5	581.2	598.8	615.4	631.0	643.4
157.5°	486.1	497.3	511.4	526.3	539.4	554.1	570.0	584.3	598.2	610.2	619.9
160°	491.1	501.4	513.9	526.3	537.7	549.1	562.6	576.0	587.5	597.8	605.0
162.5°	495.3	503.9	514.7	525.5	534.4	544.1	555.1	566.1	575.9	585.3	591.7
165°	500.4	507.7	515.9	523.2	529.4	536.6	544.9	553.2	559.5	566.7	571.9
167.5°	505.2	509.7	515.8	521.6	524.4	529.2	535.2	542.1	546.8	551.0	554.7
170°	507.7	509.7	514.9	519.1	521.1	524.2	529.4	534.6	537.7	541.8	543.9
172.5°	509.3	510.6	514.9	518.3	518.6	520.0	523.6	528.0	530.2	533.6	534.8
175°	510.8	511.8	513.9	515.9	514.9	514.9	517.0	519.1	520.0	522.2	522.2
177.5°	511.8	511.8	512.6	514.2	512.6	511.8	512.6	513.4	514.2	515.1	515.1
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1559.9	1559.2	1559.9	1557.6	1559.9	1559.2	1559.9	1566.6	1566.6	1567.1	1567.7
5°	1451.4	1450.8	1448.7	1442.3	1448.7	1450.8	1451.4	1453.6	1459.2	1469.0	1466.2
7.5°	1356.8	1355.8	1349.7	1349.9	1349.7	1355.8	1356.8	1362.4	1368.6	1374.7	1381.8
10°	1300.8	1301.5	1293.1	1288.2	1293.1	1301.5	1300.8	1305.7	1314.8	1319.7	1324.6
12.5°	1246.4	1243.2	1236.4	1231.0	1236.4	1243.2	1246.4	1250.2	1262.7	1268.1	1277.6
15°	1174.7	1167.6	1150.8	1152.2	1150.8	1167.6	1174.7	1171.8	1184.5	1191.4	1194.3
17.5°	1090.1	1084.9	1084.7	1074.9	1084.7	1084.9	1090.1	1095.7	1106.6	1114.2	1134.3
20°	1040.8	1037.2	1038.7	1028.9	1038.7	1037.2	1040.8	1052.0	1059.0	1068.8	1084.9
22.5°	1002.1	998.5	992.7	989.6	992.7	998.5	1002.1	1010.0	1017.5	1031.3	1040.1
25°	945.5	939.9	934.2	937.7	934.2	939.9	945.5	949.7	963.7	970.0	982.6
27.5°	888.9	884.7	879.0	878.3	879.0	884.7	888.9	892.9	900.6	911.2	926.4
30°	852.9	848.7	846.0	842.4	846.0	848.7	852.9	856.5	864.2	875.4	886.6
32.5°	816.5	815.6	810.7	809.9	810.7	815.6	816.5	822.2	829.9	840.6	850.2
35°	768.8	764.6	763.2	763.9	763.2	764.6	768.8	771.7	778.6	788.5	797.5
37.5°	723.5	717.9	715.4	712.9	715.4	717.9	723.5	724.0	731.1	737.7	750.0
40°	691.1	685.5	684.0	682.6	684.0	685.5	691.1	690.4	698.0	702.9	714.2
42.5°	654.6	652.4	651.5	649.0	651.5	652.4	654.6	658.4	662.7	669.9	678.3
45°	604.8	604.1	599.9	601.4	599.9	604.1	604.8	606.9	614.7	619.6	627.2
47.5°	552.4	549.3	546.4	548.3	546.4	549.3	552.4	555.2	560.4	566.4	576.7
50°	516.6	515.1	508.8	510.2	508.8	515.1	516.6	519.3	522.8	530.6	539.7
52.5°	480.6	475.3	473.0	472.1	473.0	475.3	480.6	483.5	487.5	496.3	503.2
55°	421.2	414.9	412.1	410.7	412.1	414.9	421.2	426.1	431.8	441.6	448.5
57.5°	362.9	361.2	359.0	360.5	359.0	361.2	362.9	371.0	376.5	384.2	392.8
60°	328.7	328.7	328.7	328.0	328.7	328.7	328.7	335.7	340.6	348.3	357.4
62.5°	302.4	300.7	300.1	301.1	300.1	300.7	302.4	305.4	310.3	315.2	323.2
65°	262.2	261.4	258.6	257.9	258.6	261.4	262.2	264.2	268.4	272.0	277.5
67.5°	224.2	221.6	220.8	219.8	220.8	221.6	224.2	226.0	228.7	233.3	236.0
70°	195.6	194.1	189.9	190.6	189.9	194.1	195.6	199.0	201.9	207.4	210.3
72.5°	164.7	163.3	162.5	161.5	162.5	163.3	164.7	168.2	171.0	177.2	181.6
75°	130.4	129.7	128.9	131.8	128.9	129.7	130.4	131.1	131.8	133.8	136.0
77.5°	104.4	104.4	104.9	103.7	104.9	104.4	104.4	104.4	104.4	105.6	105.9
80°	87.6	87.6	86.9	86.9	86.9	87.6	87.6	87.6	87.6	87.6	86.9
82.5°	70.3	70.8	71.2	70.1	71.2	70.8	70.3	71.3	71.9	70.8	71.2
85°	46.3	45.6	47.0	46.3	47.0	45.6	46.3	46.3	44.9	46.3	45.6
87.5°	26.6	25.6	25.9	26.2	25.9	25.6	26.6	25.6	25.2	25.0	24.3
90°	29.0	30.1	31.1	30.1	31.1	30.1	29.0	30.1	28.0	26.9	25.9
92.5°	53.9	50.7	51.8	49.9	51.8	50.7	53.9	55.7	61.1	69.2	87.2
95°	140.9	131.6	124.3	120.2	124.3	131.6	140.9	160.6	197.9	252.8	373.0
97.5°	410.7	364.1	336.1	327.2	336.1	364.1	410.7	487.1	611.1	744.7	929.7
100°	764.6	688.9	648.5	649.6	648.5	688.9	764.6	869.2	1016.4	1137.6	1221.5
102.5°	1070.4	1010.6	976.8	953.0	976.8	1010.6	1070.4	1151.8	1245.1	1315.7	1318.5
105°	1395.5	1356.2	1323.0	1317.9	1323.0	1356.2	1395.5	1443.2	1470.2	1450.5	1346.8
107.5°	1561.9	1548.6	1537.5	1527.9	1537.5	1548.6	1561.9	1561.1	1524.2	1433.4	1265.2
110°	1610.0	1618.3	1616.2	1614.2	1616.2	1618.3	1610.0	1581.0	1508.5	1378.0	1187.3



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1597.6	1623.3	1631.1	1631.6	1631.1	1623.3	1597.6	1544.5	1451.3	1305.0	1110.2
115°	1531.2	1576.8	1597.6	1602.8	1597.6	1576.8	1531.2	1453.6	1340.6	1188.3	1008.1
117.5°	1422.1	1474.3	1504.1	1511.2	1504.1	1474.3	1422.1	1341.0	1226.5	1089.7	934.1
120°	1345.8	1403.8	1428.7	1434.9	1428.7	1403.8	1345.8	1264.0	1159.3	1035.0	895.1
122.5°	1276.2	1328.4	1355.8	1363.6	1355.8	1328.4	1276.2	1203.5	1106.3	991.0	864.4
125°	1185.3	1230.8	1256.7	1264.0	1256.7	1230.8	1185.3	1118.9	1036.0	936.6	823.7
127.5°	1112.9	1151.8	1175.3	1181.9	1175.3	1151.8	1112.9	1053.8	978.4	888.7	788.0
130°	1068.2	1105.5	1127.2	1135.5	1127.2	1105.5	1068.2	1013.3	942.8	858.9	765.6
132.5°	1027.5	1064.8	1084.1	1089.9	1084.1	1064.8	1027.5	976.0	908.8	830.7	744.9
135°	967.7	998.7	1017.4	1024.7	1017.4	998.7	967.7	916.9	857.8	790.5	716.9
137.5°	903.7	935.1	950.8	955.6	950.8	935.1	903.7	860.9	809.8	751.7	691.4
140°	863.0	892.1	908.6	907.6	908.6	892.1	863.0	823.7	779.1	729.3	676.5
142.5°	823.2	848.9	863.8	862.8	863.8	848.9	823.2	789.7	750.9	707.8	662.5
145°	768.7	790.5	798.8	800.8	798.8	790.5	768.7	742.8	712.8	679.7	645.4
147.5°	726.5	741.2	749.0	749.8	749.0	741.2	726.5	706.8	685.5	658.7	631.6
150°	702.4	713.8	720.1	720.1	720.1	713.8	702.4	686.9	667.2	645.4	621.6
152.5°	680.9	691.4	695.2	695.2	695.2	691.4	680.9	668.7	652.3	633.0	612.5
155°	652.7	661.0	663.1	664.1	663.1	661.0	652.7	643.4	631.0	615.4	598.8
157.5°	628.0	634.3	635.9	635.7	635.9	634.3	628.0	619.9	610.2	598.2	584.3
160°	612.3	618.5	618.5	617.5	618.5	618.5	612.3	605.0	597.8	587.5	576.0
162.5°	596.6	601.9	601.9	600.9	601.9	601.9	596.6	591.7	585.3	575.9	566.1
165°	576.0	580.1	579.2	579.2	579.2	580.1	576.0	571.9	566.7	559.5	553.2
167.5°	556.5	559.5	558.4	558.4	558.4	559.5	556.5	554.7	551.0	546.8	542.1
170°	544.9	547.1	546.0	546.0	546.0	547.1	544.9	543.9	541.8	537.7	534.6
172.5°	535.0	537.1	535.2	534.4	535.2	537.1	535.0	534.8	533.6	530.2	528.0
175°	522.2	523.2	522.2	521.1	522.2	523.2	522.2	522.2	522.2	520.0	519.1
177.5°	514.2	515.1	513.4	513.4	513.4	515.1	514.2	515.1	515.1	514.2	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1562.6	1570.5	1578.3	1585.6	1596.9	1601.9	1609.2	1611.9	1620.4	1632.7	1642.8
5°	1467.6	1478.8	1493.5	1505.5	1524.4	1539.1	1555.2	1570.7	1588.9	1614.8	1637.9
7.5°	1387.0	1398.1	1415.8	1437.9	1458.7	1479.6	1501.6	1522.7	1548.7	1585.9	1622.7
10°	1333.7	1347.0	1368.1	1391.9	1417.8	1438.2	1464.1	1490.8	1523.0	1565.8	1609.9
12.5°	1287.7	1297.7	1322.1	1344.8	1374.1	1400.1	1425.4	1456.5	1493.3	1538.8	1591.9
15°	1214.6	1228.6	1252.4	1277.6	1308.5	1335.9	1368.8	1406.6	1442.3	1498.4	1562.9
17.5°	1141.1	1162.4	1187.2	1215.7	1238.6	1276.2	1312.0	1350.9	1394.8	1454.3	1525.1
20°	1094.0	1110.9	1134.0	1175.4	1205.5	1234.2	1267.1	1315.5	1356.1	1423.4	1497.0
22.5°	1054.3	1066.6	1092.5	1126.6	1161.7	1195.0	1228.4	1274.6	1324.7	1388.7	1468.5
25°	995.2	1014.9	1034.5	1059.0	1096.8	1136.8	1173.2	1212.5	1265.8	1333.7	1420.0
27.5°	937.6	955.4	974.7	1004.9	1033.6	1070.9	1109.0	1154.1	1211.2	1283.2	1370.6
30°	900.6	913.9	932.1	970.7	996.6	1028.9	1073.7	1113.7	1166.9	1243.3	1335.9
32.5°	862.5	879.7	899.6	929.2	961.3	991.8	1032.8	1076.1	1130.5	1205.8	1300.5
35°	808.1	828.4	848.7	870.5	902.7	934.2	968.6	1016.3	1071.6	1144.5	1237.7
37.5°	758.0	774.5	790.9	817.9	848.5	878.4	910.5	957.5	1009.7	1088.3	1173.8
40°	726.1	740.8	753.4	781.5	810.9	843.1	874.7	916.1	972.1	1045.7	1128.4
42.5°	691.3	704.9	722.0	745.0	776.7	803.9	835.4	874.5	927.2	1001.9	1074.5
45°	639.2	654.6	669.3	691.1	722.6	749.2	777.2	814.4	868.3	930.1	994.5
47.5°	585.0	600.4	617.2	638.2	665.7	692.8	720.8	753.7	802.9	863.4	906.9
50°	550.2	562.8	579.6	600.7	625.9	654.6	679.8	715.6	762.5	810.2	848.0
52.5°	514.2	525.8	544.8	566.9	590.6	615.4	642.3	673.0	715.4	760.3	790.3
55°	458.3	472.3	488.5	510.2	533.3	554.4	580.3	611.9	645.5	679.1	699.5
57.5°	406.1	417.7	431.3	453.7	473.8	498.9	522.1	546.7	577.8	603.2	616.4
60°	367.9	378.4	396.0	415.6	434.5	456.3	482.9	507.4	531.3	551.6	562.0
62.5°	332.1	344.3	359.5	377.5	398.1	418.7	441.9	462.5	483.6	501.1	508.3
65°	285.3	295.1	306.3	323.1	339.9	361.0	379.2	400.2	415.6	425.4	431.8
67.5°	242.6	249.1	257.6	268.9	285.3	303.7	321.4	337.8	350.7	357.4	363.0
70°	215.2	219.4	225.7	236.9	249.5	265.6	283.8	295.8	307.0	312.5	318.2
72.5°	187.7	193.1	198.8	207.8	218.1	229.7	242.9	257.6	263.8	270.5	273.9
75°	142.3	150.0	157.7	163.3	170.3	179.4	191.4	200.5	203.9	209.6	210.3
77.5°	107.4	109.1	114.7	121.6	127.5	134.1	141.7	149.8	151.5	154.4	156.3
80°	88.3	88.3	88.3	92.5	99.5	104.4	111.5	115.7	118.4	119.1	119.8
82.5°	70.9	70.9	70.4	71.2	73.7	76.4	82.8	87.6	89.9	89.4	87.9
85°	46.3	44.9	44.9	44.1	44.9	43.4	42.7	45.6	49.8	49.8	48.3
87.5°	24.1	23.7	23.6	22.5	21.2	20.1	18.0	18.1	17.5	19.4	18.4
90°	24.9	25.9	22.8	19.7	16.6	13.5	11.4	9.4	6.2	4.1	2.1
92.5°	120.2	159.3	175.3	131.6	87.0	59.9	44.6	35.8	27.7	19.1	12.8
95°	498.3	614.4	547.1	377.1	222.7	134.6	94.3	67.3	49.8	38.3	35.2
97.5°	1018.6	952.1	697.1	413.8	239.8	155.6	111.9	85.3	70.0	61.1	60.1
100°	1185.3	981.1	663.1	390.6	237.3	164.7	124.3	99.4	85.0	77.7	76.7
102.5°	1193.5	927.3	613.3	370.7	240.6	175.5	138.4	116.0	102.4	95.9	94.1
105°	1130.3	832.9	552.2	356.4	249.7	193.8	161.6	142.0	129.5	123.3	120.2
107.5°	1019.7	749.7	513.3	355.3	266.7	217.6	187.7	169.2	157.0	151.1	147.9
110°	950.0	702.4	498.3	359.5	280.8	234.2	205.1	187.5	176.1	170.9	167.8



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	889.6	670.9	490.1	367.8	294.9	251.6	223.4	205.7	194.4	189.2	186.1
115°	816.4	637.1	487.0	381.3	318.1	278.7	250.7	233.1	222.7	216.5	212.4
117.5°	772.2	617.2	488.8	399.0	342.7	303.8	277.9	258.2	248.6	243.4	238.7
120°	749.0	608.1	492.1	412.3	358.5	321.2	295.2	275.6	265.2	260.0	256.9
122.5°	730.0	602.4	497.9	424.8	375.1	338.6	311.0	292.1	281.0	275.8	272.7
125°	705.5	594.7	506.6	444.4	398.9	362.6	334.7	315.0	303.5	297.4	295.2
127.5°	684.0	590.9	516.6	460.7	419.5	384.6	356.6	334.8	323.2	315.6	312.5
130°	672.3	588.4	523.2	471.4	432.0	397.8	369.9	348.1	335.6	326.4	323.2
132.5°	661.6	587.6	528.2	481.3	442.8	409.5	382.3	360.5	345.6	335.5	331.5
135°	647.6	586.4	535.7	494.2	459.0	426.9	398.9	377.1	361.6	350.2	346.1
137.5°	635.3	584.1	540.6	503.7	470.1	439.3	413.4	391.8	375.2	364.1	359.7
140°	627.9	583.3	543.9	508.7	477.6	447.5	421.7	400.9	384.3	374.0	368.8
142.5°	621.2	581.7	546.4	513.6	483.4	454.2	430.0	409.2	394.3	383.2	378.8
145°	612.3	579.2	548.0	519.1	491.1	464.1	440.3	422.7	407.2	397.8	394.8
147.5°	603.6	575.2	548.0	522.4	497.3	472.6	452.4	435.3	421.9	412.8	410.9
150°	597.8	571.9	548.0	523.2	501.4	477.6	459.0	444.4	431.0	422.7	421.7
152.5°	591.2	567.8	545.5	524.9	503.9	483.4	465.6	452.7	441.0	432.7	432.5
155°	581.2	560.5	542.9	525.3	508.7	491.1	476.5	465.2	454.9	448.6	448.6
157.5°	570.0	554.1	539.4	526.3	511.4	497.3	486.1	476.4	467.3	462.3	461.5
160°	562.6	549.1	537.7	526.3	513.9	501.4	491.1	483.8	475.5	471.4	471.4
162.5°	555.1	544.1	534.4	525.5	514.7	503.9	495.3	488.8	482.1	478.8	478.8
165°	544.9	536.6	529.4	523.2	515.9	507.7	500.4	496.2	491.1	489.0	490.1
167.5°	535.2	529.2	524.4	521.6	515.8	509.7	505.2	502.3	498.3	497.3	498.6
170°	529.4	524.2	521.1	519.1	514.9	509.7	507.7	505.6	502.5	501.4	503.5
172.5°	523.6	520.0	518.6	518.3	514.9	510.6	509.3	508.1	505.8	505.6	506.8
175°	517.0	514.9	514.9	515.9	513.9	511.8	510.8	510.8	508.7	509.7	510.8
177.5°	512.6	511.8	512.6	514.2	512.6	511.8	511.8	511.8	511.0	511.8	512.6
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.2	1652.3	1660.2	1672.0	1681.0	1688.8	1690.5	1692.7	1698.4	1707.8	1715.1
5°	1656.8	1672.9	1698.9	1724.1	1751.4	1773.9	1794.9	1809.6	1823.6	1853.1	1876.9
7.5°	1653.5	1689.3	1730.0	1775.3	1821.1	1865.5	1906.7	1943.6	1980.3	2023.2	2072.2
10°	1651.2	1693.3	1747.9	1806.1	1869.9	1932.2	1992.5	2039.5	2094.2	2143.2	2205.6
12.5°	1640.6	1701.1	1766.5	1840.8	1919.2	1991.1	2070.5	2135.4	2197.9	2268.8	2341.3
15°	1626.7	1700.3	1783.0	1881.8	2000.9	2087.9	2169.2	2282.0	2359.1	2436.2	2539.9
17.5°	1601.3	1691.1	1794.5	1922.9	2022.2	2139.0	2261.4	2350.5	2454.4	2563.0	2656.9
20°	1581.1	1685.6	1801.2	1927.3	2054.2	2181.0	2299.5	2406.0	2513.3	2638.8	2715.8
22.5°	1560.9	1664.3	1784.4	1918.4	2054.8	2188.3	2322.5	2447.6	2568.2	2694.8	2793.2
25°	1518.0	1640.7	1771.0	1907.7	2042.3	2189.5	2349.3	2488.8	2638.0	2768.4	2861.6
27.5°	1474.6	1587.0	1716.8	1855.5	2005.0	2179.0	2367.0	2525.5	2675.0	2768.4	2797.7
30°	1435.4	1554.5	1673.7	1814.5	1976.4	2170.5	2370.3	2551.8	2674.5	2715.1	2684.9
32.5°	1395.5	1503.5	1621.5	1765.8	1937.7	2149.8	2374.8	2536.1	2609.9	2578.9	2456.2
35°	1325.3	1422.7	1537.0	1681.3	1879.0	2138.3	2356.3	2465.6	2447.4	2272.2	2040.9
37.5°	1250.2	1329.5	1435.4	1586.4	1818.2	2092.8	2276.6	2292.8	2135.1	1866.1	1598.9
40°	1190.8	1262.2	1370.9	1528.6	1771.0	2047.9	2196.5	2131.3	1886.7	1587.4	1364.6
42.5°	1133.0	1193.3	1298.0	1468.0	1726.2	1986.8	2077.1	1935.1	1652.9	1369.9	1167.2
45°	1035.2	1091.9	1197.0	1371.5	1634.4	1869.9	1858.0	1611.2	1328.8	1101.1	932.8
47.5°	942.4	992.0	1090.7	1268.8	1526.6	1694.7	1583.2	1320.7	1081.1	898.4	778.4
50°	876.7	925.9	1024.0	1199.9	1440.3	1562.9	1403.8	1150.8	931.5	780.1	684.7
52.5°	814.0	861.9	951.6	1123.0	1336.0	1409.3	1238.4	1003.9	821.0	690.4	608.5
55°	726.1	762.5	843.1	1007.1	1166.3	1183.0	1010.0	813.7	663.0	571.9	515.9
57.5°	636.5	667.9	747.5	878.2	989.7	981.1	816.9	647.2	545.7	478.0	437.3
60°	578.2	609.0	679.1	791.3	875.4	846.0	695.3	558.6	471.7	422.0	389.7
62.5°	523.8	548.0	613.5	695.4	755.9	722.6	594.3	481.2	412.2	370.3	344.8
65°	445.1	464.7	517.2	560.0	593.6	561.4	454.9	376.4	326.6	297.2	279.6
67.5°	370.1	382.6	415.9	431.3	455.0	419.6	342.1	289.4	261.2	236.3	224.2
70°	323.1	332.2	349.7	362.3	368.6	332.2	274.7	236.2	212.3	194.8	187.2
72.5°	276.0	284.0	287.5	297.8	294.6	260.5	220.9	190.2	173.1	161.2	151.2
75°	211.0	214.5	211.0	206.8	197.6	173.8	146.5	131.1	118.4	112.8	109.3
77.5°	153.7	152.7	147.8	141.3	125.7	110.8	96.0	90.9	85.3	82.4	81.1
80°	118.4	115.7	111.5	100.9	87.6	77.1	73.6	70.1	67.9	64.5	63.8
82.5°	88.2	86.5	79.5	70.6	61.3	56.4	53.4	52.2	50.0	48.2	48.1
85°	47.0	44.9	37.2	32.3	30.9	29.4	28.7	28.7	25.9	25.2	25.2
87.5°	16.0	13.0	13.1	11.8	12.2	11.7	12.9	12.4	12.5	12.8	11.9
90°	4.1	6.2	9.4	11.4	13.5	16.6	19.7	22.8	25.9	24.9	25.9
92.5°	19.1	27.7	35.8	44.6	59.9	87.0	131.6	175.3	159.3	120.2	87.2
95°	38.3	49.8	67.3	94.3	134.6	222.7	377.1	547.1	614.4	498.3	373.0
97.5°	61.1	70.0	85.3	111.9	155.6	239.8	413.8	697.1	952.1	1018.6	929.7
100°	77.7	85.0	99.4	124.3	164.7	237.3	390.6	663.1	981.1	1185.3	1221.5
102.5°	95.9	102.4	116.0	138.4	175.5	240.6	370.7	613.3	927.3	1193.5	1318.5
105°	123.3	129.5	142.0	161.6	193.8	249.7	356.4	552.2	832.9	1130.3	1346.8
107.5°	151.1	157.0	169.2	187.7	217.6	266.7	355.3	513.3	749.7	1019.7	1265.2
110°	170.9	176.1	187.5	205.1	234.2	280.8	359.5	498.3	702.4	950.0	1187.3





TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.2	194.4	205.7	223.4	251.6	294.9	367.8	490.1	670.9	889.6	1110.2
115°	216.5	222.7	233.1	250.7	278.7	318.1	381.3	487.0	637.1	816.4	1008.1
117.5°	243.4	248.6	258.2	277.9	303.8	342.7	399.0	488.8	617.2	772.2	934.1
120°	260.0	265.2	275.6	295.2	321.2	358.5	412.3	492.1	608.1	749.0	895.1
122.5°	275.8	281.0	292.1	311.0	338.6	375.1	424.8	497.9	602.4	730.0	864.4
125°	297.4	303.5	315.0	334.7	362.6	398.9	444.4	506.6	594.7	705.5	823.7
127.5°	315.6	323.2	334.8	356.6	384.6	419.5	460.7	516.6	590.9	684.0	788.0
130°	326.4	335.6	348.1	369.9	397.8	432.0	471.4	523.2	588.4	672.3	765.6
132.5°	335.5	345.6	360.5	382.3	409.5	442.8	481.3	528.2	587.6	661.6	744.9
135°	350.2	361.6	377.1	398.9	426.9	459.0	494.2	535.7	586.4	647.6	716.9
137.5°	364.1	375.2	391.8	413.4	439.3	470.1	503.7	540.6	584.1	635.3	691.4
140°	374.0	384.3	400.9	421.7	447.5	477.6	508.7	543.9	583.3	627.9	676.5
142.5°	383.2	394.3	409.2	430.0	454.2	483.4	513.6	546.4	581.7	621.2	662.5
145°	397.8	407.2	422.7	440.3	464.1	491.1	519.1	548.0	579.2	612.3	645.4
147.5°	412.8	421.9	435.3	452.4	472.6	497.3	522.4	548.0	575.2	603.6	631.6
150°	422.7	431.0	444.4	459.0	477.6	501.4	523.2	548.0	571.9	597.8	621.6
152.5°	432.7	441.0	452.7	465.6	483.4	503.9	524.9	545.5	567.8	591.2	612.5
155°	448.6	454.9	465.2	476.5	491.1	508.7	525.3	542.9	560.5	581.2	598.8
157.5°	462.3	467.3	476.4	486.1	497.3	511.4	526.3	539.4	554.1	570.0	584.3
160°	471.4	475.5	483.8	491.1	501.4	513.9	526.3	537.7	549.1	562.6	576.0
162.5°	478.8	482.1	488.8	495.3	503.9	514.7	525.5	534.4	544.1	555.1	566.1
165°	489.0	491.1	496.2	500.4	507.7	515.9	523.2	529.4	536.6	544.9	553.2
167.5°	497.3	498.3	502.3	505.2	509.7	515.8	521.6	524.4	529.2	535.2	542.1
170°	501.4	502.5	505.6	507.7	509.7	514.9	519.1	521.1	524.2	529.4	534.6
172.5°	505.6	505.8	508.1	509.3	510.6	514.9	518.3	518.6	520.0	523.6	528.0
175°	509.7	508.7	510.8	510.8	511.8	513.9	515.9	514.9	514.9	517.0	519.1
177.5°	511.8	511.0	511.8	511.8	511.8	512.6	514.2	512.6	511.8	512.6	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1726.9	1726.9	1729.1	1737.6	1738.7	1746.0	1743.7
5°	1897.9	1911.2	1916.1	1937.2	1949.8	1955.4	1944.2
7.5°	2107.0	2144.7	2162.4	2184.4	2204.0	2209.8	2194.5
10°	2259.6	2298.8	2331.7	2352.1	2371.0	2383.6	2399.8
12.5°	2407.0	2455.2	2486.5	2515.2	2534.7	2550.7	2553.3
15°	2567.2	2640.1	2695.5	2736.1	2756.5	2767.0	2762.8
17.5°	2728.8	2796.4	2835.8	2877.3	2905.5	2906.9	2907.7
20°	2820.2	2886.1	2931.7	2962.5	2994.1	2992.7	2999.6
22.5°	2881.4	2933.2	2968.1	2990.5	3001.3	2996.1	2997.4
25°	2909.9	2925.3	2919.1	2883.3	2874.3	2841.3	2846.9
27.5°	2762.5	2689.6	2614.2	2517.2	2440.7	2379.5	2382.7
30°	2562.3	2433.4	2286.2	2162.8	2052.1	2021.2	1955.4
32.5°	2282.5	2089.1	1916.7	1801.8	1706.7	1681.0	1623.4
35°	1808.2	1620.4	1443.1	1336.5	1294.5	1235.6	1234.9
37.5°	1405.5	1240.1	1146.3	1066.4	1024.5	988.9	985.4
40°	1182.3	1053.4	982.6	925.1	883.8	857.1	850.9
42.5°	1026.4	922.2	855.9	820.3	788.5	774.7	764.5
45°	838.2	768.1	721.8	689.6	674.9	664.4	658.8
47.5°	701.2	654.2	622.7	601.2	589.2	578.2	581.1
50°	626.6	588.0	564.9	544.6	535.5	527.7	528.4
52.5°	566.6	532.0	513.3	498.6	487.2	481.8	479.1
55°	480.8	459.1	440.1	429.6	423.3	415.6	413.5
57.5°	410.1	393.3	377.9	366.0	364.4	357.0	358.0
60°	363.0	349.0	336.4	330.1	325.2	318.9	321.0
62.5°	324.3	312.5	301.1	295.9	291.0	286.3	287.3
65°	265.6	254.4	247.4	244.6	242.5	240.4	238.3
67.5°	211.7	204.8	200.5	194.4	190.1	189.4	187.3
70°	178.0	168.9	161.2	153.5	151.4	150.7	151.4
72.5°	142.7	137.0	134.8	131.1	130.6	128.9	130.1
75°	107.3	105.1	103.7	100.9	100.9	100.9	100.9
77.5°	79.1	77.8	77.0	76.4	75.7	74.7	74.5
80°	61.7	61.0	59.6	59.6	58.9	59.6	58.9
82.5°	46.5	46.4	45.0	45.0	44.3	43.9	44.3
85°	23.8	23.1	24.5	23.1	23.8	22.5	23.8
87.5°	12.1	12.3	12.2	11.9	11.6	12.9	11.6
90°	26.9	28.0	30.1	29.0	30.1	31.1	30.1
92.5°	69.2	61.1	55.7	53.9	50.7	51.8	49.9
95°	252.8	197.9	160.6	140.9	131.6	124.3	120.2
97.5°	744.7	611.1	487.1	410.7	364.1	336.1	327.2
100°	1137.6	1016.4	869.2	764.6	688.9	648.5	649.6
102.5°	1315.7	1245.1	1151.8	1070.4	1010.6	976.8	953.0
105°	1450.5	1470.2	1443.2	1395.5	1356.2	1323.0	1317.9
107.5°	1433.4	1524.2	1561.1	1561.9	1548.6	1537.5	1527.9
110°	1378.0	1508.5	1581.0	1610.0	1618.3	1616.2	1614.2



TEST NUMBER: P332386-940

CATALOG NUMBER: S123RDIP-S1165D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1305.0	1451.3	1544.5	1597.6	1623.3	1631.1	1631.6
115°	1188.3	1340.6	1453.6	1531.2	1576.8	1597.6	1602.8
117.5°	1089.7	1226.5	1341.0	1422.1	1474.3	1504.1	1511.2
120°	1035.0	1159.3	1264.0	1345.8	1403.8	1428.7	1434.9
122.5°	991.0	1106.3	1203.5	1276.2	1328.4	1355.8	1363.6
125°	936.6	1036.0	1118.9	1185.3	1230.8	1256.7	1264.0
127.5°	888.7	978.4	1053.8	1112.9	1151.8	1175.3	1181.9
130°	858.9	942.8	1013.3	1068.2	1105.5	1127.2	1135.5
132.5°	830.7	908.8	976.0	1027.5	1064.8	1084.1	1089.9
135°	790.5	857.8	916.9	967.7	998.7	1017.4	1024.7
137.5°	751.7	809.8	860.9	903.7	935.1	950.8	955.6
140°	729.3	779.1	823.7	863.0	892.1	908.6	907.6
142.5°	707.8	750.9	789.7	823.2	848.9	863.8	862.8
145°	679.7	712.8	742.8	768.7	790.5	798.8	800.8
147.5°	658.7	685.5	706.8	726.5	741.2	749.0	749.8
150°	645.4	667.2	686.9	702.4	713.8	720.1	720.1
152.5°	633.0	652.3	668.7	680.9	691.4	695.2	695.2
155°	615.4	631.0	643.4	652.7	661.0	663.1	664.1
157.5°	598.2	610.2	619.9	628.0	634.3	635.9	635.7
160°	587.5	597.8	605.0	612.3	618.5	618.5	617.5
162.5°	575.9	585.3	591.7	596.6	601.9	601.9	600.9
165°	559.5	566.7	571.9	576.0	580.1	579.2	579.2
167.5°	546.8	551.0	554.7	556.5	559.5	558.4	558.4
170°	537.7	541.8	543.9	544.9	547.1	546.0	546.0
172.5°	530.2	533.6	534.8	535.0	537.1	535.2	534.4
175°	520.0	522.2	522.2	522.2	523.2	522.2	521.1
177.5°	514.2	515.1	515.1	514.2	515.1	513.4	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8

(END OF REPORT)