

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: P332380-840

Luminaire Tested: **S123RDIP-S1165D1025U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332380-840  
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-S1165D1025U840-4F0-1E-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**

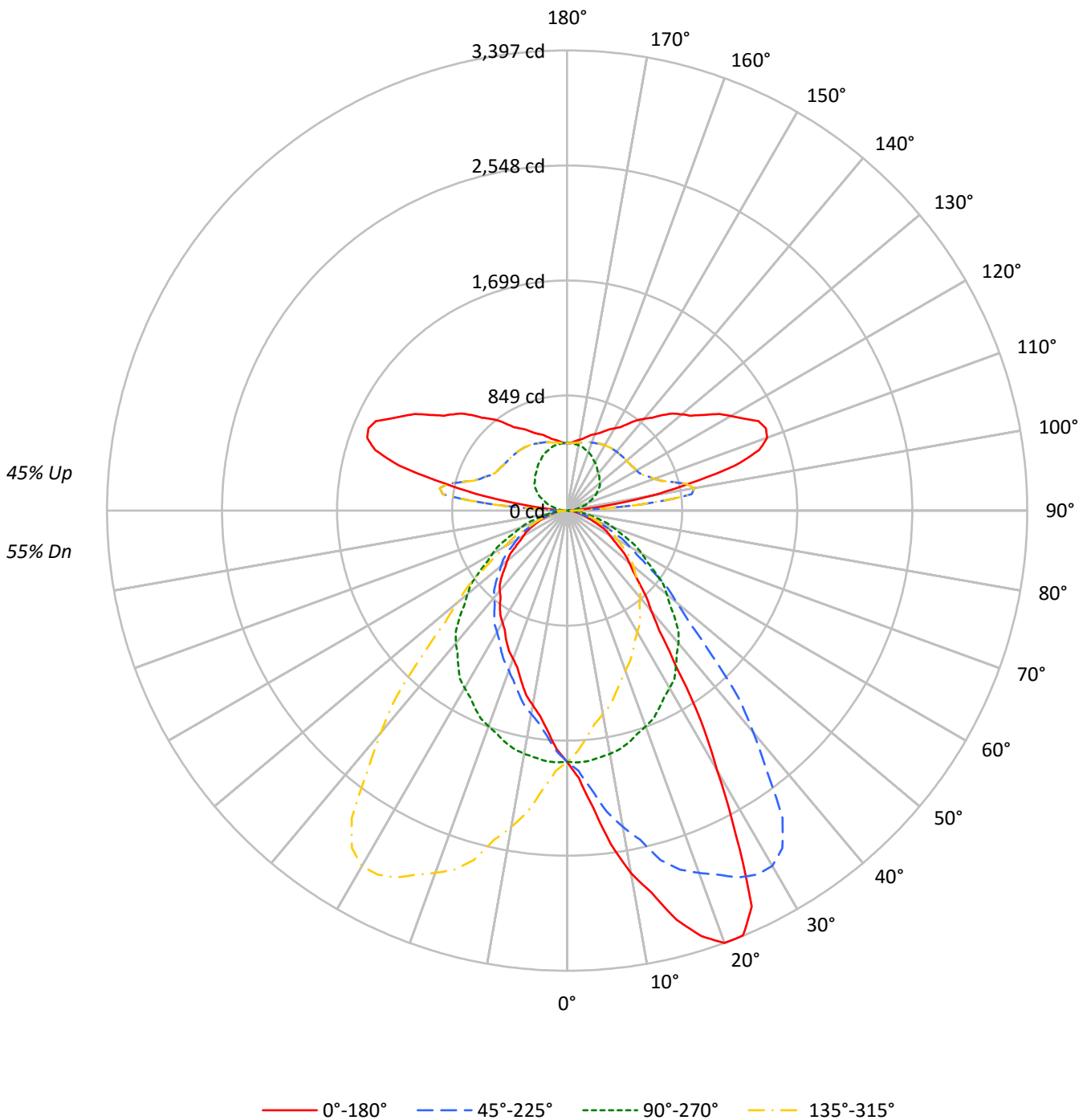
Lumens per Lamp: N/A  
Luminaire Lumens: 8366.8 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (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°	19957	19957	19957	19957
5°	23791	20042	17650	20042
10°	29704	19928	15946	19928
15°	34867	19724	14540	19724
20°	38913	19420	13347	19420
25°	38292	19099	12613	19099
30°	27524	18804	11857	18804
35°	18378	18419	11369	18419
40°	13540	17956	10863	17956
45°	11357	17145	10368	17145
50°	10021	16083	9676	16083
55°	8788	14865	8728	14865
60°	7828	13702	7995	13702
65°	6872	12455	7440	12455
70°	5397	11339	6795	11339
75°	4754	9902	6209	9902
80°	4135	8412	6106	8412
85°	3335	6756	6472	6756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.3	2.2
10°-20°	569.6	6.8
20°-30°	894.9	10.7
30°-40°	933.7	11.2
40°-50°	799.0	9.6
50°-60°	609.0	7.3
60°-70°	390.4	4.7
70°-80°	187.8	2.2
80°-90°	53.6	0.6
90°-100°	277.1	3.3
100°-110°	784.7	9.4
110°-120°	771.9	9.2
120°-130°	615.7	7.4
130°-140°	485.5	5.8
140°-150°	362.3	4.3
150°-160°	252.5	3.0
160°-170°	148.4	1.8
170°-180°	48.3	0.6
0°-30°	1646.9	19.7
0°-40°	2580.6	30.8
0°-60°	3988.6	47.7
0°-90°	4620.3	55.2
90°-120°	1833.8	21.9
90°-150°	3297.3	39.4
90°-180°	3746.0	44.8
0°-180°	8366.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1854	1854	1854	1854	1854	
5°	2202	1855	1634	1855	2202	227
15°	3129	1770	1305	1770	3129	887
25°	3224	1608	1062	1608	3224	1386
35°	1399	1402	865	1402	1399	917
45°	746	1126	681	1126	746	587
55°	468	792	465	792	468	423
65°	270	489	292	489	270	265
75°	114	238	149	238	114	123
85°	27	55	52	55	27	32
90°	29	2	29	2	29	16
95°	117	34	117	34	117	211
105°	1282	117	1282	117	1282	1265
115°	1559	207	1559	207	1559	1515
125°	1230	287	1230	287	1230	1115
135°	997	337	997	337	997	773
145°	779	384	779	384	779	496
155°	646	436	646	436	646	301
165°	564	477	564	477	564	161
175°	507	497	507	497	507	49
180°	498	498	498	498	498	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1974.8	1977.3	1969.0	1967.8	1958.2	1955.7	1955.7	1942.4	1934.1	1923.4	1917.0
5°	2201.8	2214.5	2208.2	2193.8	2170.0	2164.4	2149.4	2125.6	2098.6	2065.3	2049.4
7.5°	2485.3	2502.6	2496.0	2473.9	2448.9	2428.8	2386.2	2346.7	2291.3	2242.7	2201.1
10°	2717.7	2699.5	2685.1	2663.7	2640.7	2603.4	2559.0	2497.8	2427.2	2371.7	2309.8
12.5°	2891.6	2888.7	2870.5	2848.5	2816.0	2780.6	2725.9	2651.5	2569.4	2489.1	2418.3
15°	3128.9	3133.6	3121.7	3098.7	3052.6	2989.9	2907.4	2876.5	2759.0	2671.7	2584.3
17.5°	3293.0	3292.1	3290.4	3258.5	3211.6	3166.9	3090.4	3009.0	2902.7	2779.7	2662.0
20°	3397.1	3389.2	3390.8	3355.1	3320.1	3268.5	3193.9	3075.6	2988.4	2846.3	2724.8
22.5°	3394.6	3393.0	3399.0	3386.8	3361.4	3321.8	3263.2	3163.3	3051.9	2908.5	2771.9
25°	3224.1	3217.7	3255.1	3265.4	3305.9	3313.0	3295.5	3240.8	3135.2	2987.6	2818.5
27.5°	2698.4	2694.8	2764.1	2850.7	2960.6	3046.0	3128.6	3168.4	3135.2	3029.5	2860.1
30°	2214.5	2289.1	2324.0	2449.4	2589.1	2755.8	2901.8	3040.7	3074.8	3028.9	2889.9
32.5°	1838.6	1903.7	1932.9	2040.5	2170.7	2365.9	2585.0	2781.7	2920.6	2955.8	2872.2
35°	1398.6	1399.4	1466.0	1513.6	1634.3	1835.1	2047.8	2311.3	2573.2	2771.7	2792.3
37.5°	1116.0	1119.9	1160.2	1207.7	1298.2	1404.4	1591.7	1810.8	2113.3	2418.0	2596.6
40°	963.6	970.7	1000.9	1047.7	1112.8	1193.0	1339.0	1545.4	1797.8	2136.7	2413.7
42.5°	865.8	877.4	892.9	929.0	969.3	1044.4	1162.5	1321.9	1551.5	1871.9	2191.5
45°	746.1	752.5	764.4	781.0	817.5	869.9	949.3	1056.4	1247.0	1504.9	1824.7
47.5°	658.1	654.8	667.3	680.9	705.2	740.8	794.1	881.5	1017.4	1224.4	1495.7
50°	598.4	597.6	606.4	616.7	639.7	665.9	709.6	775.5	883.4	1054.9	1303.3
52.5°	542.6	545.6	551.8	564.6	581.3	602.5	641.7	689.1	781.8	929.8	1136.9
55°	468.3	470.7	479.4	486.6	498.5	519.9	544.5	584.2	647.7	750.8	921.5
57.5°	405.5	404.3	412.7	414.4	428.0	445.5	464.4	495.2	541.3	618.0	733.0
60°	363.6	361.1	368.3	373.9	381.0	395.3	411.1	441.3	477.9	534.2	632.6
62.5°	325.4	324.3	329.5	335.1	341.0	354.0	367.3	390.5	419.4	466.9	544.9
65°	269.8	272.3	274.6	277.0	280.1	288.1	300.8	316.7	336.6	369.9	426.3
67.5°	212.1	214.5	215.3	220.2	227.0	232.0	239.7	253.9	267.6	295.8	327.8
70°	171.5	170.7	171.5	173.8	182.6	191.3	201.6	212.0	220.7	240.4	267.5
72.5°	147.3	145.9	147.9	148.5	152.7	155.1	161.6	171.3	182.6	196.0	215.4
75°	114.3	114.3	114.3	114.3	117.4	119.1	121.5	123.8	127.7	134.1	148.5
77.5°	84.4	84.6	85.7	86.5	87.2	88.1	89.6	91.9	93.3	96.6	102.9
80°	66.7	67.5	66.7	67.5	67.5	69.1	69.9	72.2	73.0	77.0	79.4
82.5°	50.2	49.7	50.2	51.0	51.0	52.5	52.7	54.4	54.6	56.7	59.1
85°	27.0	25.4	27.0	26.2	27.8	26.2	27.0	28.6	28.6	29.4	32.5
87.5°	12.2	13.6	12.2	12.6	12.8	13.0	12.8	12.6	13.7	13.3	13.3
90°	29.2	30.2	29.2	28.2	29.2	27.3	26.3	25.2	24.2	25.2	22.2
92.5°	48.6	50.4	49.4	52.4	54.2	59.5	67.4	84.8	116.9	155.0	170.6
95°	116.9	121.0	128.1	137.1	156.2	192.6	246.0	362.8	484.8	597.7	532.2
97.5°	318.3	327.0	354.3	399.6	473.9	594.5	724.6	904.6	991.1	926.3	678.2
100°	632.1	631.1	670.3	744.0	845.8	988.9	1106.8	1188.5	1153.2	954.6	645.1
102.5°	927.2	950.4	983.2	1041.5	1120.7	1211.4	1280.2	1282.8	1161.2	902.2	596.7
105°	1282.2	1287.3	1319.5	1357.8	1404.2	1430.4	1411.3	1310.4	1099.7	810.4	537.2
107.5°	1486.6	1495.9	1506.8	1519.7	1518.9	1483.0	1394.7	1231.0	992.1	729.4	499.4
110°	1570.5	1572.6	1574.6	1566.5	1538.2	1467.6	1340.7	1155.2	924.3	683.5	484.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1587.4	1587.0	1579.3	1554.4	1502.8	1412.0	1269.7	1080.2	865.5	652.8	476.8
115°	1559.4	1554.4	1534.2	1489.9	1414.2	1304.3	1156.2	980.8	794.4	620.0	473.7
117.5°	1470.3	1463.5	1434.4	1383.6	1304.7	1193.3	1060.3	908.9	751.3	600.6	475.5
120°	1396.1	1390.1	1365.8	1309.4	1229.8	1128.0	1007.0	870.9	728.8	591.7	478.8
122.5°	1326.8	1319.1	1292.5	1241.7	1170.9	1076.4	964.3	841.1	710.2	586.0	484.4
125°	1229.8	1222.7	1197.5	1153.2	1088.6	1008.0	911.3	801.4	686.5	578.7	492.9
127.5°	1149.9	1143.5	1120.7	1082.8	1025.3	952.0	864.6	766.7	665.5	575.0	502.6
130°	1104.8	1096.7	1075.6	1039.3	985.8	917.3	835.7	745.0	654.2	572.6	509.1
132.5°	1060.5	1054.8	1036.0	999.8	949.6	884.2	808.2	724.8	643.7	571.8	513.9
135°	996.9	989.9	971.7	941.5	892.1	834.7	769.1	697.5	630.1	570.6	521.2
137.5°	929.8	925.1	909.9	879.2	837.7	787.9	731.4	672.8	618.1	568.4	525.9
140°	883.0	884.0	867.9	839.7	801.4	758.0	709.6	658.2	610.9	567.5	529.2
142.5°	839.5	840.5	826.0	801.0	768.3	730.6	688.7	644.5	604.4	565.9	531.6
145°	779.2	777.2	769.1	747.9	722.8	693.5	661.3	628.0	595.7	563.5	533.2
147.5°	729.6	728.8	721.1	706.8	687.7	666.9	640.9	614.5	587.2	559.7	533.2
150°	700.5	700.5	694.5	683.5	668.3	649.1	628.0	604.8	581.6	556.4	533.2
152.5°	676.4	676.4	672.8	662.5	650.6	634.7	615.9	595.9	575.2	552.4	530.8
155°	646.1	645.1	643.1	635.1	626.0	613.9	598.7	582.6	565.5	545.3	528.2
157.5°	618.5	618.7	617.1	611.1	603.2	593.7	582.0	568.6	554.6	539.1	524.8
160°	600.8	601.8	601.8	595.7	588.7	581.6	571.6	560.5	547.3	534.2	523.2
162.5°	584.6	585.6	585.6	580.5	575.8	569.6	560.3	550.8	540.1	529.4	520.0
165°	563.5	563.5	564.5	560.5	556.4	551.4	544.3	538.3	530.2	522.2	515.1
167.5°	543.3	543.3	544.3	541.5	539.7	536.0	532.0	527.4	520.8	514.9	510.3
170°	531.2	531.2	532.2	530.2	529.2	527.1	523.2	520.2	515.1	510.1	507.1
172.5°	520.0	520.8	522.6	520.6	520.4	519.2	515.9	513.7	509.5	506.0	504.6
175°	507.1	508.1	509.1	508.1	508.1	508.1	506.0	505.0	503.0	501.0	501.0
177.5°	499.6	499.6	501.2	500.4	501.2	501.2	500.4	499.6	498.8	498.0	498.8
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1914.5	1912.6	1903.7	1893.5	1880.2	1871.3	1864.3	1860.5	1849.1	1835.1	1825.5
5°	2032.8	2008.9	1983.5	1952.6	1924.0	1894.6	1876.3	1854.9	1828.8	1799.4	1778.8
7.5°	2159.4	2112.7	2062.4	2010.5	1959.2	1913.2	1872.6	1837.8	1796.0	1753.9	1724.4
10°	2256.5	2188.3	2117.7	2045.4	1979.5	1917.6	1870.0	1823.2	1773.2	1724.7	1688.3
12.5°	2344.8	2254.9	2173.5	2084.8	2000.5	1926.5	1857.9	1802.8	1742.7	1691.1	1649.5
15°	2456.6	2364.5	2266.0	2131.1	2019.2	1925.6	1842.2	1770.0	1697.0	1633.5	1593.0
17.5°	2561.0	2422.5	2290.2	2177.7	2032.3	1915.2	1813.5	1727.2	1647.0	1579.6	1529.8
20°	2604.2	2470.0	2326.4	2182.7	2039.8	1908.9	1790.6	1695.4	1612.0	1535.8	1489.9
22.5°	2630.2	2478.3	2327.0	2172.6	2020.8	1884.8	1767.8	1663.0	1572.7	1500.3	1443.5
25°	2660.6	2479.6	2312.9	2160.5	2005.7	1858.2	1719.2	1608.1	1510.5	1433.5	1373.1
27.5°	2680.6	2467.7	2270.7	2101.3	1944.3	1797.3	1670.0	1552.2	1453.2	1371.7	1307.0
30°	2684.3	2458.1	2238.3	2055.0	1895.4	1760.5	1625.6	1512.9	1408.1	1321.5	1261.2
32.5°	2689.5	2434.7	2194.4	1999.7	1836.3	1702.7	1580.4	1472.8	1365.5	1280.3	1218.7
35°	2668.5	2421.7	2128.0	1904.1	1740.6	1611.2	1501.0	1401.7	1296.2	1213.6	1150.9
37.5°	2578.3	2370.1	2059.1	1796.5	1625.6	1505.7	1415.8	1329.3	1232.5	1143.5	1084.4
40°	2487.5	2319.3	2005.7	1731.1	1552.6	1429.5	1348.6	1277.9	1184.3	1100.9	1037.4
42.5°	2352.3	2250.1	1954.9	1662.5	1470.0	1351.4	1283.1	1216.9	1134.7	1050.1	990.4
45°	2104.2	2117.7	1851.0	1553.3	1355.6	1236.6	1172.4	1126.3	1053.3	983.4	922.3
47.5°	1793.0	1919.2	1728.9	1436.9	1235.2	1123.5	1067.2	1027.0	977.9	909.3	853.5
50°	1589.8	1770.0	1631.1	1358.9	1159.6	1048.5	992.9	960.4	917.6	863.5	810.4
52.5°	1402.5	1596.0	1513.0	1271.8	1077.7	976.1	921.8	895.0	861.0	810.2	762.1
55°	1143.8	1339.8	1320.8	1140.5	954.8	863.5	822.3	792.1	769.1	731.0	693.0
57.5°	925.1	1111.1	1120.8	994.5	846.6	756.4	720.8	698.1	683.1	654.4	619.1
60°	787.4	958.1	991.4	896.2	769.1	689.7	654.8	636.5	624.7	601.7	574.6
62.5°	673.1	818.3	856.1	787.5	694.8	620.6	593.2	575.6	567.5	547.6	523.8
65°	515.1	635.8	672.3	634.2	585.7	526.2	504.0	489.0	481.8	470.7	453.2
67.5°	387.4	475.2	515.3	488.5	471.0	433.3	419.2	411.1	404.8	397.2	382.5
70°	311.1	376.2	417.5	410.3	396.1	376.2	365.9	360.3	354.0	347.7	335.0
72.5°	250.1	295.0	333.7	337.3	325.6	321.6	312.6	310.2	306.4	298.7	291.8
75°	165.9	196.8	223.8	234.2	238.9	242.9	238.9	238.1	237.3	231.0	227.0
77.5°	108.8	125.4	142.4	160.1	167.4	172.9	174.1	177.0	174.9	171.6	169.7
80°	83.3	87.4	99.2	114.3	126.2	131.0	134.1	135.7	134.9	134.1	131.0
82.5°	60.5	63.8	69.4	80.0	90.0	98.0	99.9	99.6	101.3	101.8	99.2
85°	32.5	33.3	34.9	36.6	42.1	50.8	53.2	54.7	56.4	56.4	51.6
87.5°	14.0	12.7	13.4	13.0	14.5	14.5	18.0	20.7	21.7	19.6	20.2
90°	19.2	16.2	13.1	11.1	9.1	6.1	4.0	2.0	4.0	6.1	9.1
92.5°	128.1	84.6	58.3	43.3	34.8	27.1	18.6	12.5	18.6	27.1	34.8
95°	366.9	216.7	131.1	91.7	65.5	48.4	37.3	34.2	37.3	48.4	65.5
97.5°	402.6	233.3	151.4	108.9	83.0	68.2	59.5	58.5	59.5	68.2	83.0
100°	380.0	230.9	160.3	121.0	96.7	82.7	75.6	74.6	75.6	82.7	96.7
102.5°	360.6	234.1	170.8	134.7	112.9	99.6	93.3	91.5	93.3	99.6	112.9
105°	346.8	243.0	188.5	157.2	138.1	126.0	120.0	116.9	120.0	126.0	138.1
107.5°	345.8	259.4	211.7	182.7	164.7	152.8	146.9	143.9	146.9	152.8	164.7
110°	349.8	273.2	227.8	199.5	182.5	171.4	166.3	163.3	166.3	171.4	182.5





TEST NUMBER: P332380-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	357.9	286.9	244.8	217.3	200.2	189.1	184.1	181.1	184.1	189.1	200.2
115°	370.9	309.4	271.1	244.0	226.8	216.7	210.7	206.6	210.7	216.7	226.8
117.5°	388.3	333.5	295.6	270.3	251.2	242.0	236.9	232.3	236.9	242.0	251.2
120°	401.2	348.8	312.5	287.3	268.1	258.0	253.0	249.9	253.0	258.0	268.1
122.5°	413.3	364.9	329.4	302.7	284.3	273.4	268.3	265.3	268.3	273.4	284.3
125°	432.4	388.1	352.8	325.6	306.4	295.4	289.3	287.3	289.3	295.4	306.4
127.5°	448.2	408.3	374.2	347.0	325.8	314.5	307.0	304.1	307.0	314.5	325.8
130°	458.7	420.3	387.1	359.8	338.7	326.6	317.5	314.5	317.5	326.6	338.7
132.5°	468.4	430.8	398.4	371.9	350.8	336.3	326.4	322.6	326.4	336.3	350.8
135°	480.8	446.6	415.3	388.1	366.9	351.8	340.7	336.7	340.7	351.8	366.9
137.5°	490.1	457.5	427.4	402.2	381.2	365.1	354.3	350.0	354.3	365.1	381.2
140°	494.9	464.7	435.5	410.3	390.1	374.0	363.9	358.9	363.9	374.0	390.1
142.5°	499.8	470.4	441.9	418.3	398.2	383.6	372.7	368.5	372.7	383.6	398.2
145°	505.0	477.8	451.6	428.4	411.3	396.2	387.1	384.1	387.1	396.2	411.3
147.5°	508.3	483.8	459.9	440.1	423.5	410.5	401.6	399.8	401.6	410.5	423.5
150°	509.1	487.9	464.7	446.6	432.4	419.3	411.3	410.3	411.3	419.3	432.4
152.5°	510.7	490.3	470.4	453.0	440.5	429.0	420.9	420.7	420.9	429.0	440.5
155°	511.1	494.9	477.8	463.7	452.6	442.5	436.5	436.5	436.5	442.5	452.6
157.5°	512.1	497.6	483.8	472.9	463.5	454.6	449.8	449.0	449.8	454.6	463.5
160°	512.1	500.0	487.9	477.8	470.7	462.7	458.7	458.7	458.7	462.7	470.7
162.5°	511.3	500.8	490.3	481.8	475.5	469.2	466.0	466.0	466.0	469.2	475.5
165°	509.1	502.0	493.9	486.9	482.8	477.8	475.7	476.8	475.7	477.8	482.8
167.5°	507.5	501.8	495.9	491.5	488.7	484.8	483.8	485.0	483.8	484.8	488.7
170°	505.0	501.0	495.9	493.9	491.9	488.9	487.9	489.9	487.9	488.9	491.9
172.5°	504.2	501.0	496.8	495.5	494.3	492.1	491.9	493.1	491.9	492.1	494.3
175°	502.0	500.0	498.0	497.0	497.0	494.9	495.9	497.0	495.9	494.9	497.0
177.5°	500.4	498.8	498.0	498.0	498.0	497.2	498.0	498.8	498.0	497.2	498.0
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332380-840

CATALOG NUMBER: S123RDIP-S1165D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1822.4	1814.1	1808.5	1795.7	1787.5	1778.6	1769.7	1775.4	1774.7	1774.1	1774.1
5°	1761.3	1743.0	1726.4	1705.0	1691.4	1674.8	1662.0	1660.4	1663.7	1652.5	1646.2
7.5°	1700.6	1675.7	1652.0	1628.4	1603.4	1583.4	1570.7	1564.9	1556.8	1549.9	1542.9
10°	1658.1	1628.7	1605.7	1576.3	1549.3	1525.5	1510.5	1500.2	1494.6	1489.0	1478.7
12.5°	1614.3	1585.6	1556.2	1523.0	1497.3	1469.7	1458.3	1446.8	1436.1	1430.0	1415.8
15°	1550.1	1512.9	1481.9	1446.9	1418.4	1391.4	1375.5	1352.5	1349.3	1341.4	1327.1
17.5°	1485.8	1445.3	1402.7	1376.7	1344.5	1316.5	1292.3	1284.5	1261.8	1253.2	1240.9
20°	1435.0	1397.8	1365.2	1331.1	1284.2	1258.1	1239.0	1228.7	1210.4	1199.3	1191.3
22.5°	1391.2	1353.3	1315.7	1275.9	1237.3	1207.9	1194.0	1177.9	1167.9	1152.4	1143.8
25°	1328.7	1287.4	1242.1	1199.3	1171.5	1149.3	1127.1	1112.8	1098.5	1091.4	1075.5
27.5°	1256.0	1212.8	1170.5	1138.0	1103.9	1082.0	1061.9	1049.1	1032.0	1020.0	1011.2
30°	1216.0	1165.2	1128.6	1099.3	1055.6	1035.0	1020.0	1004.1	991.4	978.7	970.0
32.5°	1169.6	1123.3	1088.6	1052.3	1018.9	996.2	976.7	962.8	952.0	939.9	931.2
35°	1096.9	1058.0	1022.3	985.8	961.2	938.2	915.1	903.2	892.9	881.8	873.9
37.5°	1031.2	994.8	960.9	926.2	895.8	877.1	858.5	849.4	835.5	828.0	819.9
40°	990.6	954.8	918.4	885.0	853.2	839.0	822.3	808.8	796.1	790.5	781.8
42.5°	946.1	910.4	879.6	843.7	817.7	798.3	782.9	768.2	758.6	750.5	745.6
45°	880.2	848.5	818.3	782.6	758.0	741.3	723.9	710.3	701.7	696.1	687.3
47.5°	816.3	784.6	753.9	722.8	698.9	679.9	662.5	653.1	641.5	634.7	628.7
50°	769.9	741.3	708.8	680.2	656.4	637.3	623.1	611.2	600.9	592.1	588.1
52.5°	727.4	696.9	668.8	642.1	617.0	595.4	582.4	569.9	562.1	552.1	547.5
55°	657.2	627.8	604.0	577.8	553.2	534.9	519.1	508.0	500.1	489.0	482.6
57.5°	591.3	565.0	536.5	513.8	488.5	473.0	459.9	444.8	435.2	426.4	420.2
60°	546.8	516.7	492.1	470.7	448.5	428.6	416.7	404.8	394.5	385.8	380.2
62.5°	500.5	474.1	450.8	427.5	407.2	389.9	376.1	366.1	357.0	351.4	345.9
65°	429.4	408.8	385.0	365.9	346.9	334.2	323.1	314.3	308.0	304.0	299.2
67.5°	364.0	344.0	323.2	304.5	291.8	282.1	274.8	267.3	264.2	259.0	255.9
70°	321.4	300.8	282.6	268.3	255.6	248.4	243.7	238.1	234.9	228.6	225.4
72.5°	275.1	260.1	247.0	235.3	225.1	218.6	212.6	205.7	200.7	193.7	190.5
75°	216.7	203.2	192.9	184.9	178.5	169.9	161.2	154.0	151.6	149.3	148.5
77.5°	160.5	151.9	144.4	137.7	129.9	123.5	121.6	120.0	119.6	118.3	118.3
80°	126.2	118.3	112.7	104.7	100.0	100.0	100.0	98.5	99.2	99.2	99.2
82.5°	93.8	86.5	83.5	80.7	79.7	80.3	80.3	80.7	80.2	81.4	80.8
85°	48.4	49.2	50.8	50.0	50.8	50.8	52.4	51.6	52.4	50.8	52.4
87.5°	20.0	22.3	23.5	24.7	26.1	26.0	26.5	26.7	27.5	27.7	28.1
90°	11.1	13.1	16.2	19.2	22.2	25.2	24.2	25.2	26.3	27.3	29.2
92.5°	43.3	58.3	84.6	128.1	170.6	155.0	116.9	84.8	67.4	59.5	54.2
95°	91.7	131.1	216.7	366.9	532.2	597.7	484.8	362.8	246.0	192.6	156.2
97.5°	108.9	151.4	233.3	402.6	678.2	926.3	991.1	904.6	724.6	594.5	473.9
100°	121.0	160.3	230.9	380.0	645.1	954.6	1153.2	1188.5	1106.8	988.9	845.8
102.5°	134.7	170.8	234.1	360.6	596.7	902.2	1161.2	1282.8	1280.2	1211.4	1120.7
105°	157.2	188.5	243.0	346.8	537.2	810.4	1099.7	1310.4	1411.3	1430.4	1404.2
107.5°	182.7	211.7	259.4	345.8	499.4	729.4	992.1	1231.0	1394.7	1483.0	1518.9
110°	199.5	227.8	273.2	349.8	484.8	683.5	924.3	1155.2	1340.7	1467.6	1538.2



TEST NUMBER: P332380-840

CATALOG NUMBER: S123RDIP-S1165D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.3	244.8	286.9	357.9	476.8	652.8	865.5	1080.2	1269.7	1412.0	1502.8
115°	244.0	271.1	309.4	370.9	473.7	620.0	794.4	980.8	1156.2	1304.3	1414.2
117.5°	270.3	295.6	333.5	388.3	475.5	600.6	751.3	908.9	1060.3	1193.3	1304.7
120°	287.3	312.5	348.8	401.2	478.8	591.7	728.8	870.9	1007.0	1128.0	1229.8
122.5°	302.7	329.4	364.9	413.3	484.4	586.0	710.2	841.1	964.3	1076.4	1170.9
125°	325.6	352.8	388.1	432.4	492.9	578.7	686.5	801.4	911.3	1008.0	1088.6
127.5°	347.0	374.2	408.3	448.2	502.6	575.0	665.5	766.7	864.6	952.0	1025.3
130°	359.8	387.1	420.3	458.7	509.1	572.6	654.2	745.0	835.7	917.3	985.8
132.5°	371.9	398.4	430.8	468.4	513.9	571.8	643.7	724.8	808.2	884.2	949.6
135°	388.1	415.3	446.6	480.8	521.2	570.6	630.1	697.5	769.1	834.7	892.1
137.5°	402.2	427.4	457.5	490.1	525.9	568.4	618.1	672.8	731.4	787.9	837.7
140°	410.3	435.5	464.7	494.9	529.2	567.5	610.9	658.2	709.6	758.0	801.4
142.5°	418.3	441.9	470.4	499.8	531.6	565.9	604.4	644.5	688.7	730.6	768.3
145°	428.4	451.6	477.8	505.0	533.2	563.5	595.7	628.0	661.3	693.5	722.8
147.5°	440.1	459.9	483.8	508.3	533.2	559.7	587.2	614.5	640.9	666.9	687.7
150°	446.6	464.7	487.9	509.1	533.2	556.4	581.6	604.8	628.0	649.1	668.3
152.5°	453.0	470.4	490.3	510.7	530.8	552.4	575.2	595.9	615.9	634.7	650.6
155°	463.7	477.8	494.9	511.1	528.2	545.3	565.5	582.6	598.7	613.9	626.0
157.5°	472.9	483.8	497.6	512.1	524.8	539.1	554.6	568.6	582.0	593.7	603.2
160°	477.8	487.9	500.0	512.1	523.2	534.2	547.3	560.5	571.6	581.6	588.7
162.5°	481.8	490.3	500.8	511.3	520.0	529.4	540.1	550.8	560.3	569.6	575.8
165°	486.9	493.9	502.0	509.1	515.1	522.2	530.2	538.3	544.3	551.4	556.4
167.5°	491.5	495.9	501.8	507.5	510.3	514.9	520.8	527.4	532.0	536.0	539.7
170°	493.9	495.9	501.0	505.0	507.1	510.1	515.1	520.2	523.2	527.1	529.2
172.5°	495.5	496.8	501.0	504.2	504.6	506.0	509.5	513.7	515.9	519.2	520.4
175°	497.0	498.0	500.0	502.0	501.0	501.0	503.0	505.0	506.0	508.1	508.1
177.5°	498.0	498.0	498.8	500.4	498.8	498.0	498.8	499.6	500.4	501.2	501.2
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332380-840

CATALOG NUMBER: S123RDIP-S1165D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1766.6	1765.8	1766.6	1763.9	1766.6	1765.8	1766.6	1774.1	1774.1	1774.7	1775.4
5°	1643.8	1643.1	1640.6	1633.5	1640.6	1643.1	1643.8	1646.2	1652.5	1663.7	1660.4
7.5°	1536.6	1535.5	1528.5	1528.7	1528.5	1535.5	1536.6	1542.9	1549.9	1556.8	1564.9
10°	1473.2	1473.9	1464.4	1458.9	1464.4	1473.9	1473.2	1478.7	1489.0	1494.6	1500.2
12.5°	1411.6	1408.0	1400.3	1394.1	1400.3	1408.0	1411.6	1415.8	1430.0	1436.1	1446.8
15°	1330.3	1322.3	1303.3	1304.8	1303.3	1322.3	1330.3	1327.1	1341.4	1349.3	1352.5
17.5°	1234.6	1228.7	1228.4	1217.3	1228.4	1228.7	1234.6	1240.9	1253.2	1261.8	1284.5
20°	1178.7	1174.7	1176.3	1165.2	1176.3	1174.7	1178.7	1191.3	1199.3	1210.4	1228.7
22.5°	1134.9	1130.8	1124.2	1120.7	1124.2	1130.8	1134.9	1143.8	1152.4	1167.9	1177.9
25°	1070.8	1064.4	1058.0	1062.0	1058.0	1064.4	1070.8	1075.5	1091.4	1098.5	1112.8
27.5°	1006.6	1001.9	995.5	994.7	995.5	1001.9	1006.6	1011.2	1020.0	1032.0	1049.1
30°	965.9	961.2	958.1	954.0	958.1	961.2	965.9	970.0	978.7	991.4	1004.1
32.5°	924.7	923.7	918.1	917.3	918.1	923.7	924.7	931.2	939.9	952.0	962.8
35°	870.7	866.0	864.3	865.2	864.3	866.0	870.7	873.9	881.8	892.9	903.2
37.5°	819.4	813.0	810.2	807.4	810.2	813.0	819.4	819.9	828.0	835.5	849.4
40°	782.6	776.3	774.7	773.1	774.7	776.3	782.6	781.8	790.5	796.1	808.8
42.5°	741.3	738.8	737.8	735.0	737.8	738.8	741.3	745.6	750.5	758.6	768.2
45°	685.0	684.2	679.4	681.1	679.4	684.2	685.0	687.3	696.1	701.7	710.3
47.5°	625.6	622.1	618.7	621.0	618.7	622.1	625.6	628.7	634.7	641.5	653.1
50°	585.0	583.4	576.2	577.8	576.2	583.4	585.0	588.1	592.1	600.9	611.2
52.5°	544.3	538.3	535.6	534.6	535.6	538.3	544.3	547.5	552.1	562.1	569.9
55°	477.1	469.9	466.7	465.1	466.7	469.9	477.1	482.6	489.0	500.1	508.0
57.5°	411.0	409.1	406.6	408.3	406.6	409.1	411.0	420.2	426.4	435.2	444.8
60°	372.2	372.2	372.2	371.4	372.2	372.2	372.2	380.2	385.8	394.5	404.8
62.5°	342.4	340.5	339.9	341.0	339.9	340.5	342.4	345.9	351.4	357.0	366.1
65°	296.9	296.1	292.9	292.1	292.9	296.1	296.9	299.2	304.0	308.0	314.3
67.5°	253.9	251.0	250.0	248.9	250.0	251.0	253.9	255.9	259.0	264.2	267.3
70°	221.5	219.8	215.1	215.9	215.1	219.8	221.5	225.4	228.6	234.9	238.1
72.5°	186.5	184.9	184.0	182.9	184.0	184.9	186.5	190.5	193.7	200.7	205.7
75°	147.6	146.8	146.0	149.3	146.0	146.8	147.6	148.5	149.3	151.6	154.0
77.5°	118.3	118.3	118.8	117.4	118.8	118.3	118.3	118.3	118.3	119.6	120.0
80°	99.2	99.2	98.5	98.5	98.5	99.2	99.2	99.2	99.2	99.2	98.5
82.5°	79.6	80.2	80.7	79.4	80.7	80.2	79.6	80.8	81.4	80.2	80.7
85°	52.4	51.6	53.2	52.4	53.2	51.6	52.4	52.4	50.8	52.4	51.6
87.5°	29.2	28.1	28.3	28.7	28.3	28.1	29.2	28.1	27.7	27.5	26.7
90°	28.2	29.2	30.2	29.2	30.2	29.2	28.2	29.2	27.3	26.3	25.2
92.5°	52.4	49.4	50.4	48.6	50.4	49.4	52.4	54.2	59.5	67.4	84.8
95°	137.1	128.1	121.0	116.9	121.0	128.1	137.1	156.2	192.6	246.0	362.8
97.5°	399.6	354.3	327.0	318.3	327.0	354.3	399.6	473.9	594.5	724.6	904.6
100°	744.0	670.3	631.1	632.1	631.1	670.3	744.0	845.8	988.9	1106.8	1188.5
102.5°	1041.5	983.2	950.4	927.2	950.4	983.2	1041.5	1120.7	1211.4	1280.2	1282.8
105°	1357.8	1319.5	1287.3	1282.2	1287.3	1319.5	1357.8	1404.2	1430.4	1411.3	1310.4
107.5°	1519.7	1506.8	1495.9	1486.6	1495.9	1506.8	1519.7	1518.9	1483.0	1394.7	1231.0
110°	1566.5	1574.6	1572.6	1570.5	1572.6	1574.6	1566.5	1538.2	1467.6	1340.7	1155.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1554.4	1579.3	1587.0	1587.4	1587.0	1579.3	1554.4	1502.8	1412.0	1269.7	1080.2
115°	1489.9	1534.2	1554.4	1559.4	1554.4	1534.2	1489.9	1414.2	1304.3	1156.2	980.8
117.5°	1383.6	1434.4	1463.5	1470.3	1463.5	1434.4	1383.6	1304.7	1193.3	1060.3	908.9
120°	1309.4	1365.8	1390.1	1396.1	1390.1	1365.8	1309.4	1229.8	1128.0	1007.0	870.9
122.5°	1241.7	1292.5	1319.1	1326.8	1319.1	1292.5	1241.7	1170.9	1076.4	964.3	841.1
125°	1153.2	1197.5	1222.7	1229.8	1222.7	1197.5	1153.2	1088.6	1008.0	911.3	801.4
127.5°	1082.8	1120.7	1143.5	1149.9	1143.5	1120.7	1082.8	1025.3	952.0	864.6	766.7
130°	1039.3	1075.6	1096.7	1104.8	1096.7	1075.6	1039.3	985.8	917.3	835.7	745.0
132.5°	999.8	1036.0	1054.8	1060.5	1054.8	1036.0	999.8	949.6	884.2	808.2	724.8
135°	941.5	971.7	989.9	996.9	989.9	971.7	941.5	892.1	834.7	769.1	697.5
137.5°	879.2	909.9	925.1	929.8	925.1	909.9	879.2	837.7	787.9	731.4	672.8
140°	839.7	867.9	884.0	883.0	884.0	867.9	839.7	801.4	758.0	709.6	658.2
142.5°	801.0	826.0	840.5	839.5	840.5	826.0	801.0	768.3	730.6	688.7	644.5
145°	747.9	769.1	777.2	779.2	777.2	769.1	747.9	722.8	693.5	661.3	628.0
147.5°	706.8	721.1	728.8	729.6	728.8	721.1	706.8	687.7	666.9	640.9	614.5
150°	683.5	694.5	700.5	700.5	700.5	694.5	683.5	668.3	649.1	628.0	604.8
152.5°	662.5	672.8	676.4	676.4	676.4	672.8	662.5	650.6	634.7	615.9	595.9
155°	635.1	643.1	645.1	646.1	645.1	643.1	635.1	626.0	613.9	598.7	582.6
157.5°	611.1	617.1	618.7	618.5	618.7	617.1	611.1	603.2	593.7	582.0	568.6
160°	595.7	601.8	601.8	600.8	601.8	601.8	595.7	588.7	581.6	571.6	560.5
162.5°	580.5	585.6	585.6	584.6	585.6	585.6	580.5	575.8	569.6	560.3	550.8
165°	560.5	564.5	563.5	563.5	563.5	564.5	560.5	556.4	551.4	544.3	538.3
167.5°	541.5	544.3	543.3	543.3	543.3	544.3	541.5	539.7	536.0	532.0	527.4
170°	530.2	532.2	531.2	531.2	531.2	532.2	530.2	529.2	527.1	523.2	520.2
172.5°	520.6	522.6	520.8	520.0	520.8	522.6	520.6	520.4	519.2	515.9	513.7
175°	508.1	509.1	508.1	507.1	508.1	509.1	508.1	508.1	508.1	506.0	505.0
177.5°	500.4	501.2	499.6	499.6	499.6	501.2	500.4	501.2	501.2	500.4	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332380-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1769.7	1778.6	1787.5	1795.7	1808.5	1814.1	1822.4	1825.5	1835.1	1849.1	1860.5
5°	1662.0	1674.8	1691.4	1705.0	1726.4	1743.0	1761.3	1778.8	1799.4	1828.8	1854.9
7.5°	1570.7	1583.4	1603.4	1628.4	1652.0	1675.7	1700.6	1724.4	1753.9	1796.0	1837.8
10°	1510.5	1525.5	1549.3	1576.3	1605.7	1628.7	1658.1	1688.3	1724.7	1773.2	1823.2
12.5°	1458.3	1469.7	1497.3	1523.0	1556.2	1585.6	1614.3	1649.5	1691.1	1742.7	1802.8
15°	1375.5	1391.4	1418.4	1446.9	1481.9	1512.9	1550.1	1593.0	1633.5	1697.0	1770.0
17.5°	1292.3	1316.5	1344.5	1376.7	1402.7	1445.3	1485.8	1529.8	1579.6	1647.0	1727.2
20°	1239.0	1258.1	1284.2	1331.1	1365.2	1397.8	1435.0	1489.9	1535.8	1612.0	1695.4
22.5°	1194.0	1207.9	1237.3	1275.9	1315.7	1353.3	1391.2	1443.5	1500.3	1572.7	1663.0
25°	1127.1	1149.3	1171.5	1199.3	1242.1	1287.4	1328.7	1373.1	1433.5	1510.5	1608.1
27.5°	1061.9	1082.0	1103.9	1138.0	1170.5	1212.8	1256.0	1307.0	1371.7	1453.2	1552.2
30°	1020.0	1035.0	1055.6	1099.3	1128.6	1165.2	1216.0	1261.2	1321.5	1408.1	1512.9
32.5°	976.7	996.2	1018.9	1052.3	1088.6	1123.3	1169.6	1218.7	1280.3	1365.5	1472.8
35°	915.1	938.2	961.2	985.8	1022.3	1058.0	1096.9	1150.9	1213.6	1296.2	1401.7
37.5°	858.5	877.1	895.8	926.2	960.9	994.8	1031.2	1084.4	1143.5	1232.5	1329.3
40°	822.3	839.0	853.2	885.0	918.4	954.8	990.6	1037.4	1100.9	1184.3	1277.9
42.5°	782.9	798.3	817.7	843.7	879.6	910.4	946.1	990.4	1050.1	1134.7	1216.9
45°	723.9	741.3	758.0	782.6	818.3	848.5	880.2	922.3	983.4	1053.3	1126.3
47.5°	662.5	679.9	698.9	722.8	753.9	784.6	816.3	853.5	909.3	977.9	1027.0
50°	623.1	637.3	656.4	680.2	708.8	741.3	769.9	810.4	863.5	917.6	960.4
52.5°	582.4	595.4	617.0	642.1	668.8	696.9	727.4	762.1	810.2	861.0	895.0
55°	519.1	534.9	553.2	577.8	604.0	627.8	657.2	693.0	731.0	769.1	792.1
57.5°	459.9	473.0	488.5	513.8	536.5	565.0	591.3	619.1	654.4	683.1	698.1
60°	416.7	428.6	448.5	470.7	492.1	516.7	546.8	574.6	601.7	624.7	636.5
62.5°	376.1	389.9	407.2	427.5	450.8	474.1	500.5	523.8	547.6	567.5	575.6
65°	323.1	334.2	346.9	365.9	385.0	408.8	429.4	453.2	470.7	481.8	489.0
67.5°	274.8	282.1	291.8	304.5	323.2	344.0	364.0	382.5	397.2	404.8	411.1
70°	243.7	248.4	255.6	268.3	282.6	300.8	321.4	335.0	347.7	354.0	360.3
72.5°	212.6	218.6	225.1	235.3	247.0	260.1	275.1	291.8	298.7	306.4	310.2
75°	161.2	169.9	178.5	184.9	192.9	203.2	216.7	227.0	231.0	237.3	238.1
77.5°	121.6	123.5	129.9	137.7	144.4	151.9	160.5	169.7	171.6	174.9	177.0
80°	100.0	100.0	100.0	104.7	112.7	118.3	126.2	131.0	134.1	134.9	135.7
82.5°	80.3	80.3	79.7	80.7	83.5	86.5	93.8	99.2	101.8	101.3	99.6
85°	52.4	50.8	50.8	50.0	50.8	49.2	48.4	51.6	56.4	56.4	54.7
87.5°	26.5	26.0	26.1	24.7	23.5	22.3	20.0	20.2	19.6	21.7	20.7
90°	24.2	25.2	22.2	19.2	16.2	13.1	11.1	9.1	6.1	4.0	2.0
92.5°	116.9	155.0	170.6	128.1	84.6	58.3	43.3	34.8	27.1	18.6	12.5
95°	484.8	597.7	532.2	366.9	216.7	131.1	91.7	65.5	48.4	37.3	34.2
97.5°	991.1	926.3	678.2	402.6	233.3	151.4	108.9	83.0	68.2	59.5	58.5
100°	1153.2	954.6	645.1	380.0	230.9	160.3	121.0	96.7	82.7	75.6	74.6
102.5°	1161.2	902.2	596.7	360.6	234.1	170.8	134.7	112.9	99.6	93.3	91.5
105°	1099.7	810.4	537.2	346.8	243.0	188.5	157.2	138.1	126.0	120.0	116.9
107.5°	992.1	729.4	499.4	345.8	259.4	211.7	182.7	164.7	152.8	146.9	143.9
110°	924.3	683.5	484.8	349.8	273.2	227.8	199.5	182.5	171.4	166.3	163.3



TEST NUMBER: P332380-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	865.5	652.8	476.8	357.9	286.9	244.8	217.3	200.2	189.1	184.1	181.1
115°	794.4	620.0	473.7	370.9	309.4	271.1	244.0	226.8	216.7	210.7	206.6
117.5°	751.3	600.6	475.5	388.3	333.5	295.6	270.3	251.2	242.0	236.9	232.3
120°	728.8	591.7	478.8	401.2	348.8	312.5	287.3	268.1	258.0	253.0	249.9
122.5°	710.2	586.0	484.4	413.3	364.9	329.4	302.7	284.3	273.4	268.3	265.3
125°	686.5	578.7	492.9	432.4	388.1	352.8	325.6	306.4	295.4	289.3	287.3
127.5°	665.5	575.0	502.6	448.2	408.3	374.2	347.0	325.8	314.5	307.0	304.1
130°	654.2	572.6	509.1	458.7	420.3	387.1	359.8	338.7	326.6	317.5	314.5
132.5°	643.7	571.8	513.9	468.4	430.8	398.4	371.9	350.8	336.3	326.4	322.6
135°	630.1	570.6	521.2	480.8	446.6	415.3	388.1	366.9	351.8	340.7	336.7
137.5°	618.1	568.4	525.9	490.1	457.5	427.4	402.2	381.2	365.1	354.3	350.0
140°	610.9	567.5	529.2	494.9	464.7	435.5	410.3	390.1	374.0	363.9	358.9
142.5°	604.4	565.9	531.6	499.8	470.4	441.9	418.3	398.2	383.6	372.7	368.5
145°	595.7	563.5	533.2	505.0	477.8	451.6	428.4	411.3	396.2	387.1	384.1
147.5°	587.2	559.7	533.2	508.3	483.8	459.9	440.1	423.5	410.5	401.6	399.8
150°	581.6	556.4	533.2	509.1	487.9	464.7	446.6	432.4	419.3	411.3	410.3
152.5°	575.2	552.4	530.8	510.7	490.3	470.4	453.0	440.5	429.0	420.9	420.7
155°	565.5	545.3	528.2	511.1	494.9	477.8	463.7	452.6	442.5	436.5	436.5
157.5°	554.6	539.1	524.8	512.1	497.6	483.8	472.9	463.5	454.6	449.8	449.0
160°	547.3	534.2	523.2	512.1	500.0	487.9	477.8	470.7	462.7	458.7	458.7
162.5°	540.1	529.4	520.0	511.3	500.8	490.3	481.8	475.5	469.2	466.0	466.0
165°	530.2	522.2	515.1	509.1	502.0	493.9	486.9	482.8	477.8	475.7	476.8
167.5°	520.8	514.9	510.3	507.5	501.8	495.9	491.5	488.7	484.8	483.8	485.0
170°	515.1	510.1	507.1	505.0	501.0	495.9	493.9	491.9	488.9	487.9	489.9
172.5°	509.5	506.0	504.6	504.2	501.0	496.8	495.5	494.3	492.1	491.9	493.1
175°	503.0	501.0	501.0	502.0	500.0	498.0	497.0	497.0	494.9	495.9	497.0
177.5°	498.8	498.0	498.8	500.4	498.8	498.0	498.0	498.0	497.2	498.0	498.8
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332380-840

CATALOG NUMBER: S123RDIP-S1165D1025U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1864.3	1871.3	1880.2	1893.5	1903.7	1912.6	1914.5	1917.0	1923.4	1934.1	1942.4
5°	1876.3	1894.6	1924.0	1952.6	1983.5	2008.9	2032.8	2049.4	2065.3	2098.6	2125.6
7.5°	1872.6	1913.2	1959.2	2010.5	2062.4	2112.7	2159.4	2201.1	2242.7	2291.3	2346.7
10°	1870.0	1917.6	1979.5	2045.4	2117.7	2188.3	2256.5	2309.8	2371.7	2427.2	2497.8
12.5°	1857.9	1926.5	2000.5	2084.8	2173.5	2254.9	2344.8	2418.3	2489.1	2569.4	2651.5
15°	1842.2	1925.6	2019.2	2131.1	2266.0	2364.5	2456.6	2584.3	2671.7	2759.0	2876.5
17.5°	1813.5	1915.2	2032.3	2177.7	2290.2	2422.5	2561.0	2662.0	2779.7	2902.7	3009.0
20°	1790.6	1908.9	2039.8	2182.7	2326.4	2470.0	2604.2	2724.8	2846.3	2988.4	3075.6
22.5°	1767.8	1884.8	2020.8	2172.6	2327.0	2478.3	2630.2	2771.9	2908.5	3051.9	3163.3
25°	1719.2	1858.2	2005.7	2160.5	2312.9	2479.6	2660.6	2818.5	2987.6	3135.2	3240.8
27.5°	1670.0	1797.3	1944.3	2101.3	2270.7	2467.7	2680.6	2860.1	3029.5	3135.2	3168.4
30°	1625.6	1760.5	1895.4	2055.0	2238.3	2458.1	2684.3	2889.9	3028.9	3074.8	3040.7
32.5°	1580.4	1702.7	1836.3	1999.7	2194.4	2434.7	2689.5	2872.2	2955.8	2920.6	2781.7
35°	1501.0	1611.2	1740.6	1904.1	2128.0	2421.7	2668.5	2792.3	2771.7	2573.2	2311.3
37.5°	1415.8	1505.7	1625.6	1796.5	2059.1	2370.1	2578.3	2596.6	2418.0	2113.3	1810.8
40°	1348.6	1429.5	1552.6	1731.1	2005.7	2319.3	2487.5	2413.7	2136.7	1797.8	1545.4
42.5°	1283.1	1351.4	1470.0	1662.5	1954.9	2250.1	2352.3	2191.5	1871.9	1551.5	1321.9
45°	1172.4	1236.6	1355.6	1553.3	1851.0	2117.7	2104.2	1824.7	1504.9	1247.0	1056.4
47.5°	1067.2	1123.5	1235.2	1436.9	1728.9	1919.2	1793.0	1495.7	1224.4	1017.4	881.5
50°	992.9	1048.5	1159.6	1358.9	1631.1	1770.0	1589.8	1303.3	1054.9	883.4	775.5
52.5°	921.8	976.1	1077.7	1271.8	1513.0	1596.0	1402.5	1136.9	929.8	781.8	689.1
55°	822.3	863.5	954.8	1140.5	1320.8	1339.8	1143.8	921.5	750.8	647.7	584.2
57.5°	720.8	756.4	846.6	994.5	1120.8	1111.1	925.1	733.0	618.0	541.3	495.2
60°	654.8	689.7	769.1	896.2	991.4	958.1	787.4	632.6	534.2	477.9	441.3
62.5°	593.2	620.6	694.8	787.5	856.1	818.3	673.1	544.9	466.9	419.4	390.5
65°	504.0	526.2	585.7	634.2	672.3	635.8	515.1	426.3	369.9	336.6	316.7
67.5°	419.2	433.3	471.0	488.5	515.3	475.2	387.4	327.8	295.8	267.6	253.9
70°	365.9	376.2	396.1	410.3	417.5	376.2	311.1	267.5	240.4	220.7	212.0
72.5°	312.6	321.6	325.6	337.3	333.7	295.0	250.1	215.4	196.0	182.6	171.3
75°	238.9	242.9	238.9	234.2	223.8	196.8	165.9	148.5	134.1	127.7	123.8
77.5°	174.1	172.9	167.4	160.1	142.4	125.4	108.8	102.9	96.6	93.3	91.9
80°	134.1	131.0	126.2	114.3	99.2	87.4	83.3	79.4	77.0	73.0	72.2
82.5°	99.9	98.0	90.0	80.0	69.4	63.8	60.5	59.1	56.7	54.6	54.4
85°	53.2	50.8	42.1	36.6	34.9	33.3	32.5	32.5	29.4	28.6	28.6
87.5°	18.0	14.5	14.5	13.0	13.4	12.7	14.0	13.3	13.3	13.7	12.6
90°	4.0	6.1	9.1	11.1	13.1	16.2	19.2	22.2	25.2	24.2	25.2
92.5°	18.6	27.1	34.8	43.3	58.3	84.6	128.1	170.6	155.0	116.9	84.8
95°	37.3	48.4	65.5	91.7	131.1	216.7	366.9	532.2	597.7	484.8	362.8
97.5°	59.5	68.2	83.0	108.9	151.4	233.3	402.6	678.2	926.3	991.1	904.6
100°	75.6	82.7	96.7	121.0	160.3	230.9	380.0	645.1	954.6	1153.2	1188.5
102.5°	93.3	99.6	112.9	134.7	170.8	234.1	360.6	596.7	902.2	1161.2	1282.8
105°	120.0	126.0	138.1	157.2	188.5	243.0	346.8	537.2	810.4	1099.7	1310.4
107.5°	146.9	152.8	164.7	182.7	211.7	259.4	345.8	499.4	729.4	992.1	1231.0
110°	166.3	171.4	182.5	199.5	227.8	273.2	349.8	484.8	683.5	924.3	1155.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	189.1	200.2	217.3	244.8	286.9	357.9	476.8	652.8	865.5	1080.2
115°	210.7	216.7	226.8	244.0	271.1	309.4	370.9	473.7	620.0	794.4	980.8
117.5°	236.9	242.0	251.2	270.3	295.6	333.5	388.3	475.5	600.6	751.3	908.9
120°	253.0	258.0	268.1	287.3	312.5	348.8	401.2	478.8	591.7	728.8	870.9
122.5°	268.3	273.4	284.3	302.7	329.4	364.9	413.3	484.4	586.0	710.2	841.1
125°	289.3	295.4	306.4	325.6	352.8	388.1	432.4	492.9	578.7	686.5	801.4
127.5°	307.0	314.5	325.8	347.0	374.2	408.3	448.2	502.6	575.0	665.5	766.7
130°	317.5	326.6	338.7	359.8	387.1	420.3	458.7	509.1	572.6	654.2	745.0
132.5°	326.4	336.3	350.8	371.9	398.4	430.8	468.4	513.9	571.8	643.7	724.8
135°	340.7	351.8	366.9	388.1	415.3	446.6	480.8	521.2	570.6	630.1	697.5
137.5°	354.3	365.1	381.2	402.2	427.4	457.5	490.1	525.9	568.4	618.1	672.8
140°	363.9	374.0	390.1	410.3	435.5	464.7	494.9	529.2	567.5	610.9	658.2
142.5°	372.7	383.6	398.2	418.3	441.9	470.4	499.8	531.6	565.9	604.4	644.5
145°	387.1	396.2	411.3	428.4	451.6	477.8	505.0	533.2	563.5	595.7	628.0
147.5°	401.6	410.5	423.5	440.1	459.9	483.8	508.3	533.2	559.7	587.2	614.5
150°	411.3	419.3	432.4	446.6	464.7	487.9	509.1	533.2	556.4	581.6	604.8
152.5°	420.9	429.0	440.5	453.0	470.4	490.3	510.7	530.8	552.4	575.2	595.9
155°	436.5	442.5	452.6	463.7	477.8	494.9	511.1	528.2	545.3	565.5	582.6
157.5°	449.8	454.6	463.5	472.9	483.8	497.6	512.1	524.8	539.1	554.6	568.6
160°	458.7	462.7	470.7	477.8	487.9	500.0	512.1	523.2	534.2	547.3	560.5
162.5°	466.0	469.2	475.5	481.8	490.3	500.8	511.3	520.0	529.4	540.1	550.8
165°	475.7	477.8	482.8	486.9	493.9	502.0	509.1	515.1	522.2	530.2	538.3
167.5°	483.8	484.8	488.7	491.5	495.9	501.8	507.5	510.3	514.9	520.8	527.4
170°	487.9	488.9	491.9	493.9	495.9	501.0	505.0	507.1	510.1	515.1	520.2
172.5°	491.9	492.1	494.3	495.5	496.8	501.0	504.2	504.6	506.0	509.5	513.7
175°	495.9	494.9	497.0	497.0	498.0	500.0	502.0	501.0	501.0	503.0	505.0
177.5°	498.0	497.2	498.0	498.0	498.0	498.8	500.4	498.8	498.0	498.8	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1955.7	1955.7	1958.2	1967.8	1969.0	1977.3	1974.8
5°	2149.4	2164.4	2170.0	2193.8	2208.2	2214.5	2201.8
7.5°	2386.2	2428.8	2448.9	2473.9	2496.0	2502.6	2485.3
10°	2559.0	2603.4	2640.7	2663.7	2685.1	2699.5	2717.7
12.5°	2725.9	2780.6	2816.0	2848.5	2870.5	2888.7	2891.6
15°	2907.4	2989.9	3052.6	3098.7	3121.7	3133.6	3128.9
17.5°	3090.4	3166.9	3211.6	3258.5	3290.4	3292.1	3293.0
20°	3193.9	3268.5	3320.1	3355.1	3390.8	3389.2	3397.1
22.5°	3263.2	3321.8	3361.4	3386.8	3399.0	3393.0	3394.6
25°	3295.5	3313.0	3305.9	3265.4	3255.1	3217.7	3224.1
27.5°	3128.6	3046.0	2960.6	2850.7	2764.1	2694.8	2698.4
30°	2901.8	2755.8	2589.1	2449.4	2324.0	2289.1	2214.5
32.5°	2585.0	2365.9	2170.7	2040.5	1932.9	1903.7	1838.6
35°	2047.8	1835.1	1634.3	1513.6	1466.0	1399.4	1398.6
37.5°	1591.7	1404.4	1298.2	1207.7	1160.2	1119.9	1116.0
40°	1339.0	1193.0	1112.8	1047.7	1000.9	970.7	963.6
42.5°	1162.5	1044.4	969.3	929.0	892.9	877.4	865.8
45°	949.3	869.9	817.5	781.0	764.4	752.5	746.1
47.5°	794.1	740.8	705.2	680.9	667.3	654.8	658.1
50°	709.6	665.9	639.7	616.7	606.4	597.6	598.4
52.5°	641.7	602.5	581.3	564.6	551.8	545.6	542.6
55°	544.5	519.9	498.5	486.6	479.4	470.7	468.3
57.5°	464.4	445.5	428.0	414.4	412.7	404.3	405.5
60°	411.1	395.3	381.0	373.9	368.3	361.1	363.6
62.5°	367.3	354.0	341.0	335.1	329.5	324.3	325.4
65°	300.8	288.1	280.1	277.0	274.6	272.3	269.8
67.5°	239.7	232.0	227.0	220.2	215.3	214.5	212.1
70°	201.6	191.3	182.6	173.8	171.5	170.7	171.5
72.5°	161.6	155.1	152.7	148.5	147.9	145.9	147.3
75°	121.5	119.1	117.4	114.3	114.3	114.3	114.3
77.5°	89.6	88.1	87.2	86.5	85.7	84.6	84.4
80°	69.9	69.1	67.5	67.5	66.7	67.5	66.7
82.5°	52.7	52.5	51.0	51.0	50.2	49.7	50.2
85°	27.0	26.2	27.8	26.2	27.0	25.4	27.0
87.5°	12.8	13.0	12.8	12.6	12.2	13.6	12.2
90°	26.3	27.3	29.2	28.2	29.2	30.2	29.2
92.5°	67.4	59.5	54.2	52.4	49.4	50.4	48.6
95°	246.0	192.6	156.2	137.1	128.1	121.0	116.9
97.5°	724.6	594.5	473.9	399.6	354.3	327.0	318.3
100°	1106.8	988.9	845.8	744.0	670.3	631.1	632.1
102.5°	1280.2	1211.4	1120.7	1041.5	983.2	950.4	927.2
105°	1411.3	1430.4	1404.2	1357.8	1319.5	1287.3	1282.2
107.5°	1394.7	1483.0	1518.9	1519.7	1506.8	1495.9	1486.6
110°	1340.7	1467.6	1538.2	1566.5	1574.6	1572.6	1570.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1269.7	1412.0	1502.8	1554.4	1579.3	1587.0	1587.4
115°	1156.2	1304.3	1414.2	1489.9	1534.2	1554.4	1559.4
117.5°	1060.3	1193.3	1304.7	1383.6	1434.4	1463.5	1470.3
120°	1007.0	1128.0	1229.8	1309.4	1365.8	1390.1	1396.1
122.5°	964.3	1076.4	1170.9	1241.7	1292.5	1319.1	1326.8
125°	911.3	1008.0	1088.6	1153.2	1197.5	1222.7	1229.8
127.5°	864.6	952.0	1025.3	1082.8	1120.7	1143.5	1149.9
130°	835.7	917.3	985.8	1039.3	1075.6	1096.7	1104.8
132.5°	808.2	884.2	949.6	999.8	1036.0	1054.8	1060.5
135°	769.1	834.7	892.1	941.5	971.7	989.9	996.9
137.5°	731.4	787.9	837.7	879.2	909.9	925.1	929.8
140°	709.6	758.0	801.4	839.7	867.9	884.0	883.0
142.5°	688.7	730.6	768.3	801.0	826.0	840.5	839.5
145°	661.3	693.5	722.8	747.9	769.1	777.2	779.2
147.5°	640.9	666.9	687.7	706.8	721.1	728.8	729.6
150°	628.0	649.1	668.3	683.5	694.5	700.5	700.5
152.5°	615.9	634.7	650.6	662.5	672.8	676.4	676.4
155°	598.7	613.9	626.0	635.1	643.1	645.1	646.1
157.5°	582.0	593.7	603.2	611.1	617.1	618.7	618.5
160°	571.6	581.6	588.7	595.7	601.8	601.8	600.8
162.5°	560.3	569.6	575.8	580.5	585.6	585.6	584.6
165°	544.3	551.4	556.4	560.5	564.5	563.5	563.5
167.5°	532.0	536.0	539.7	541.5	544.3	543.3	543.3
170°	523.2	527.1	529.2	530.2	532.2	531.2	531.2
172.5°	515.9	519.2	520.4	520.6	522.6	520.8	520.0
175°	506.0	508.1	508.1	508.1	509.1	508.1	507.1
177.5°	500.4	501.2	501.2	500.4	501.2	499.6	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0

(END OF REPORT)