

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: P332368-840

Luminaire Tested: **S123RDIP-S1165D585U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332368-840
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-S1165D585U840-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6759.5 lumens
Efficiency: N/A
Efficacy: 122.7 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: Semi-Direct

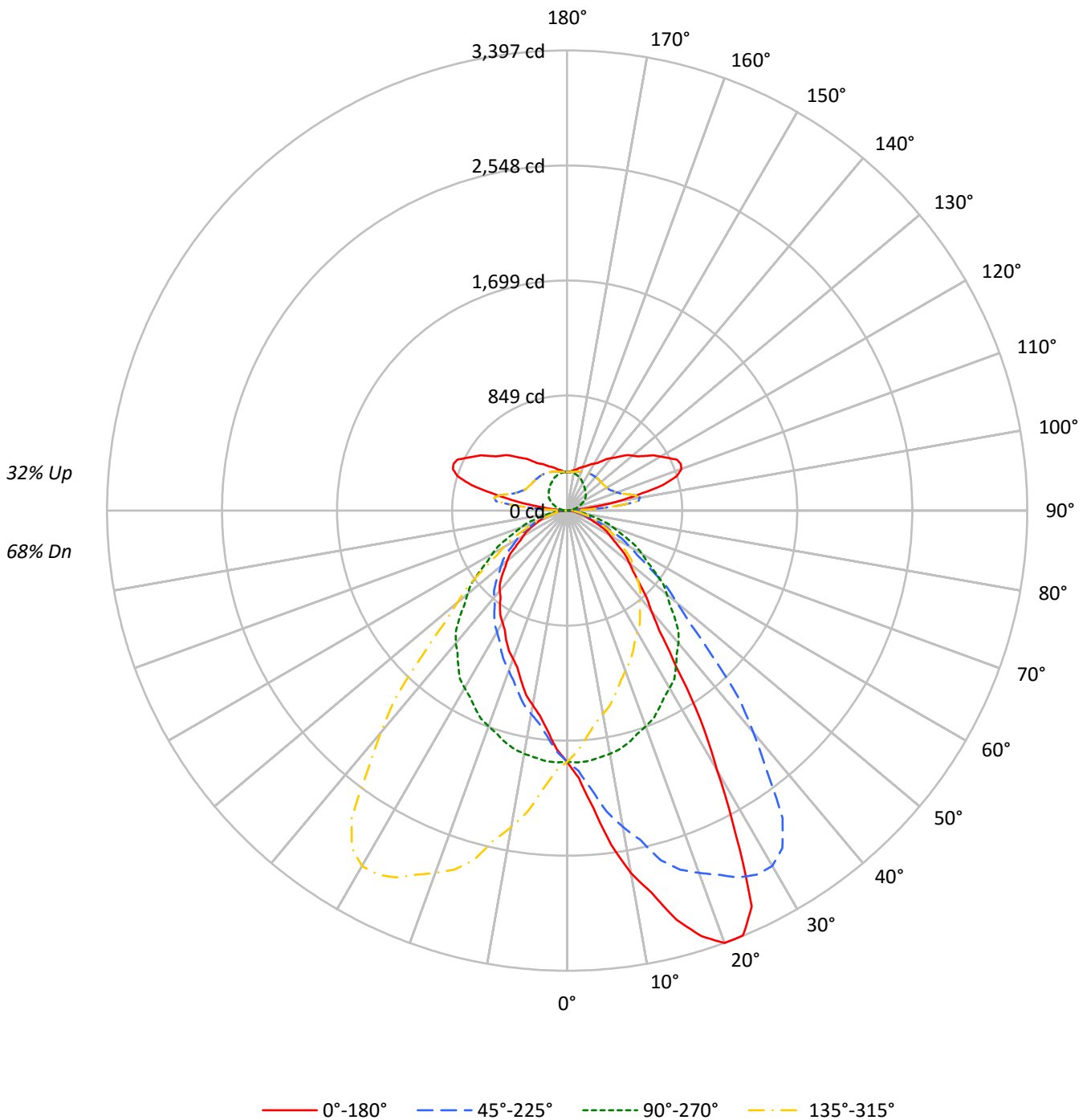
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	103	99	95	92	97	93	90	87	83	81	79	74	72	71	66	64	63	59
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	54	51
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47	44
4	80	69	61	55	75	66	59	53	59	54	49	53	49	45	48	44	41	38
5	73	62	54	48	69	59	52	46	53	48	43	48	43	40	43	40	37	34
6	68	56	48	42	64	53	46	41	48	42	38	44	39	35	40	36	33	30
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	36	32	29	27
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	29	26	24
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24	22
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20

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	2.7
10°-20°	569.6	8.4
20°-30°	894.9	13.2
30°-40°	933.7	13.8
40°-50°	799.0	11.8
50°-60°	609.0	9.0
60°-70°	390.4	5.8
70°-80°	187.8	2.8
80°-90°	51.9	0.8
90°-100°	158.3	2.3
100°-110°	448.4	6.6
110°-120°	441.1	6.5
120°-130°	351.8	5.2
130°-140°	277.4	4.1
140°-150°	207.0	3.1
150°-160°	144.3	2.1
160°-170°	84.8	1.3
170°-180°	27.6	0.4
0°-30°	1646.9	24.4
0°-40°	2580.6	38.2
0°-60°	3988.6	59.0
0°-90°	4618.7	68.3
90°-120°	1047.8	15.5
90°-150°	1884.1	27.9
90°-180°	2141.0	31.7
0°-180°	6759.5	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	31
90°	17	1	17	1	17	10
95°	67	20	67	20	67	120
105°	733	67	733	67	733	723
115°	891	118	891	118	891	866
125°	703	164	703	164	703	637
135°	570	192	570	192	570	442
145°	445	219	445	219	445	283
155°	369	249	369	249	369	172
165°	322	272	322	272	322	92
175°	290	284	290	284	290	28
180°	285	285	285	285	285	



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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°	9.7	11.1	9.7	10.2	10.3	10.7	10.6	10.5	11.6	11.1	11.4
90°	16.7	17.3	16.7	16.2	16.7	15.6	14.9	14.4	13.8	14.4	12.6
92.5°	27.8	28.8	28.2	30.0	31.0	34.0	38.5	48.5	66.9	88.6	97.5
95°	66.9	69.1	73.1	78.4	89.3	110.0	140.6	207.3	277.0	341.5	304.2
97.5°	181.9	186.8	202.4	228.3	270.8	339.7	414.0	516.9	566.3	529.4	387.5
100°	361.1	360.6	383.0	425.1	483.2	565.0	632.5	679.1	658.9	545.4	368.6
102.5°	529.8	543.0	561.8	595.1	640.4	692.3	731.5	733.1	663.6	515.5	341.0
105°	732.7	735.6	754.0	775.9	802.3	817.4	806.4	748.8	628.4	463.1	307.0
107.5°	849.5	854.7	861.0	868.4	867.9	847.4	797.0	703.4	566.9	416.8	285.4
110°	897.4	898.6	899.7	895.1	879.0	838.7	766.1	660.0	528.2	390.5	277.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	907.1	906.9	902.5	888.2	858.7	806.9	725.5	617.2	494.5	373.0	272.5
115°	891.1	888.2	876.7	851.3	808.1	745.4	660.7	560.5	453.9	354.3	270.7
117.5°	840.1	836.3	819.6	790.6	745.6	681.9	605.8	519.3	429.4	343.2	271.8
120°	797.8	794.3	780.5	748.2	702.8	644.5	575.4	497.7	416.5	338.1	273.6
122.5°	758.1	753.8	738.5	709.5	669.0	615.0	551.0	480.6	405.9	334.9	276.8
125°	702.8	698.7	684.3	658.9	622.1	576.0	520.7	457.9	392.2	330.6	281.7
127.5°	657.1	653.4	640.4	618.7	585.9	544.0	494.1	438.1	380.3	328.5	287.2
130°	631.3	626.7	614.6	593.9	563.3	524.1	477.5	425.7	373.9	327.2	290.8
132.5°	605.9	602.7	592.0	571.3	542.6	505.2	461.8	414.1	367.8	326.7	293.7
135°	569.7	565.6	555.2	538.0	509.8	477.0	439.5	398.6	360.0	326.0	297.8
137.5°	531.3	528.7	519.9	502.4	478.7	450.2	418.0	384.5	353.3	324.8	300.5
140°	504.5	505.1	495.9	479.8	457.9	433.1	405.5	376.2	349.0	324.3	302.4
142.5°	479.7	480.3	472.0	457.7	439.0	417.5	393.5	368.3	345.4	323.4	303.8
145°	445.2	444.1	439.5	427.4	413.0	396.3	377.9	358.8	340.4	321.9	304.7
147.5°	416.9	416.5	412.0	403.8	392.9	381.1	366.2	351.1	335.6	319.8	304.7
150°	400.3	400.3	396.9	390.5	381.9	370.9	358.8	345.6	332.3	317.9	304.7
152.5°	386.5	386.5	384.5	378.5	371.7	362.6	351.9	340.5	328.7	315.7	303.4
155°	369.2	368.6	367.5	362.8	357.7	350.8	342.1	333.0	323.2	311.6	301.8
157.5°	353.5	353.6	352.6	349.2	344.7	339.3	332.5	324.9	316.9	308.0	299.8
160°	343.3	343.9	343.9	340.4	336.4	332.3	326.6	320.2	312.8	305.3	298.9
162.5°	334.1	334.7	334.7	331.6	329.0	325.5	320.1	314.8	308.6	302.6	297.1
165°	321.9	321.9	322.6	320.2	317.9	315.1	311.0	307.6	303.0	298.4	294.4
167.5°	310.4	310.4	311.0	309.4	308.4	306.3	304.0	301.3	297.6	294.2	291.5
170°	303.6	303.6	304.2	303.0	302.4	301.2	298.9	297.2	294.4	291.4	289.7
172.5°	297.1	297.6	298.6	297.4	297.3	296.6	294.8	293.6	291.1	289.1	288.3
175°	289.7	290.3	290.8	290.3	290.3	290.3	289.1	288.6	287.4	286.3	286.3
177.5°	285.5	285.5	286.4	285.9	286.4	286.4	285.9	285.5	285.0	284.6	285.0
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



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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°	12.3	11.4	12.3	12.0	13.7	14.0	17.6	20.5	21.4	19.1	19.5
90°	10.9	9.2	7.5	6.4	5.2	3.4	2.3	1.1	2.3	3.4	5.2
92.5°	73.1	48.4	33.3	24.7	19.9	15.5	10.6	7.2	10.6	15.5	19.9
95°	209.6	123.8	74.8	52.4	37.5	27.7	21.3	19.6	21.3	27.7	37.5
97.5°	230.0	133.3	86.5	62.2	47.5	39.0	34.0	33.4	34.0	39.0	47.5
100°	217.1	131.9	91.6	69.1	55.3	47.3	43.2	42.6	43.2	47.3	55.3
102.5°	206.1	133.7	97.6	77.0	64.5	57.0	53.3	52.3	53.3	57.0	64.5
105°	198.1	138.9	107.8	89.9	78.9	72.0	68.6	66.9	68.6	72.0	78.9
107.5°	197.5	148.2	121.0	104.4	94.1	87.4	84.0	82.2	84.0	87.4	94.1
110°	199.9	156.1	130.2	114.0	104.2	98.0	95.0	93.3	95.0	98.0	104.2



TEST NUMBER: P332368-840

CATALOG NUMBER: S123RDIP-S1165D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	204.5	163.9	139.9	124.2	114.4	108.1	105.2	103.4	105.2	108.1	114.4
115°	212.0	176.8	154.9	139.4	129.6	123.8	120.4	118.1	120.4	123.8	129.6
117.5°	221.9	190.6	168.8	154.5	143.5	138.3	135.3	132.7	135.3	138.3	143.5
120°	229.2	199.2	178.5	164.2	153.2	147.4	144.6	142.9	144.6	147.4	153.2
122.5°	236.2	208.5	188.2	172.9	162.4	156.2	153.3	151.6	153.3	156.2	162.4
125°	247.1	221.8	201.6	186.0	175.1	168.7	165.3	164.2	165.3	168.7	175.1
127.5°	256.1	233.3	213.8	198.2	186.1	179.8	175.4	173.7	175.4	179.8	186.1
130°	262.1	240.1	221.2	205.6	193.5	186.6	181.5	179.8	181.5	186.6	193.5
132.5°	267.6	246.2	227.6	212.6	200.5	192.2	186.5	184.3	186.5	192.2	200.5
135°	274.8	255.2	237.3	221.8	209.6	201.1	194.7	192.4	194.7	201.1	209.6
137.5°	280.0	261.4	244.2	229.8	217.8	208.6	202.4	200.0	202.4	208.6	217.8
140°	282.9	265.5	248.8	234.4	222.9	213.7	207.9	205.1	207.9	213.7	222.9
142.5°	285.6	268.7	252.6	239.0	227.5	219.2	213.0	210.6	213.0	219.2	227.5
145°	288.6	273.1	258.0	244.8	235.0	226.4	221.2	219.4	221.2	226.4	235.0
147.5°	290.4	276.5	262.8	251.5	242.1	234.6	229.4	228.4	229.4	234.6	242.1
150°	290.8	278.8	265.5	255.2	247.1	239.6	235.0	234.4	235.0	239.6	247.1
152.5°	291.9	280.1	268.7	258.8	251.8	245.2	240.5	240.4	240.5	245.2	251.8
155°	292.1	282.9	273.1	265.0	258.6	252.9	249.4	249.4	249.4	252.9	258.6
157.5°	292.7	284.3	276.5	270.2	264.9	259.7	257.0	256.5	257.0	259.7	264.9
160°	292.7	285.7	278.8	273.1	269.0	264.4	262.1	262.1	262.1	264.4	269.0
162.5°	292.2	286.2	280.1	275.3	271.8	268.1	266.2	266.2	266.2	268.1	271.8
165°	290.8	286.8	282.3	278.2	275.9	273.1	271.9	272.5	271.9	273.1	275.9
167.5°	289.9	286.7	283.4	280.8	279.2	277.0	276.5	277.2	276.5	277.0	279.2
170°	288.6	286.3	283.4	282.3	281.0	279.3	278.8	279.9	278.8	279.3	281.0
172.5°	288.1	286.3	283.9	283.2	282.5	281.2	281.0	281.8	281.0	281.2	282.5
175°	286.8	285.7	284.6	284.0	284.0	282.9	283.4	284.0	283.4	282.9	284.0
177.5°	285.9	285.0	284.6	284.6	284.6	284.1	284.6	285.0	284.6	284.1	284.6
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332368-840

CATALOG NUMBER: S123RDIP-S1165D585U840-4F0-1E-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°	19.1	21.2	22.1	23.1	24.1	23.8	24.3	24.4	25.2	25.3	25.5
90°	6.4	7.5	9.2	10.9	12.6	14.4	13.8	14.4	14.9	15.6	16.7
92.5°	24.7	33.3	48.4	73.1	97.5	88.6	66.9	48.5	38.5	34.0	31.0
95°	52.4	74.8	123.8	209.6	304.2	341.5	277.0	207.3	140.6	110.0	89.3
97.5°	62.2	86.5	133.3	230.0	387.5	529.4	566.3	516.9	414.0	339.7	270.8
100°	69.1	91.6	131.9	217.1	368.6	545.4	658.9	679.1	632.5	565.0	483.2
102.5°	77.0	97.6	133.7	206.1	341.0	515.5	663.6	733.1	731.5	692.3	640.4
105°	89.9	107.8	138.9	198.1	307.0	463.1	628.4	748.8	806.4	817.4	802.3
107.5°	104.4	121.0	148.2	197.5	285.4	416.8	566.9	703.4	797.0	847.4	867.9
110°	114.0	130.2	156.1	199.9	277.0	390.5	528.2	660.0	766.1	838.7	879.0



TEST NUMBER: P332368-840

CATALOG NUMBER: S123RDIP-S1165D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.2	139.9	163.9	204.5	272.5	373.0	494.5	617.2	725.5	806.9	858.7
115°	139.4	154.9	176.8	212.0	270.7	354.3	453.9	560.5	660.7	745.4	808.1
117.5°	154.5	168.8	190.6	221.9	271.8	343.2	429.4	519.3	605.8	681.9	745.6
120°	164.2	178.5	199.2	229.2	273.6	338.1	416.5	497.7	575.4	644.5	702.8
122.5°	172.9	188.2	208.5	236.2	276.8	334.9	405.9	480.6	551.0	615.0	669.0
125°	186.0	201.6	221.8	247.1	281.7	330.6	392.2	457.9	520.7	576.0	622.1
127.5°	198.2	213.8	233.3	256.1	287.2	328.5	380.3	438.1	494.1	544.0	585.9
130°	205.6	221.2	240.1	262.1	290.8	327.2	373.9	425.7	477.5	524.1	563.3
132.5°	212.6	227.6	246.2	267.6	293.7	326.7	367.8	414.1	461.8	505.2	542.6
135°	221.8	237.3	255.2	274.8	297.8	326.0	360.0	398.6	439.5	477.0	509.8
137.5°	229.8	244.2	261.4	280.0	300.5	324.8	353.3	384.5	418.0	450.2	478.7
140°	234.4	248.8	265.5	282.9	302.4	324.3	349.0	376.2	405.5	433.1	457.9
142.5°	239.0	252.6	268.7	285.6	303.8	323.4	345.4	368.3	393.5	417.5	439.0
145°	244.8	258.0	273.1	288.6	304.7	321.9	340.4	358.8	377.9	396.3	413.0
147.5°	251.5	262.8	276.5	290.4	304.7	319.8	335.6	351.1	366.2	381.1	392.9
150°	255.2	265.5	278.8	290.8	304.7	317.9	332.3	345.6	358.8	370.9	381.9
152.5°	258.8	268.7	280.1	291.9	303.4	315.7	328.7	340.5	351.9	362.6	371.7
155°	265.0	273.1	282.9	292.1	301.8	311.6	323.2	333.0	342.1	350.8	357.7
157.5°	270.2	276.5	284.3	292.7	299.8	308.0	316.9	324.9	332.5	339.3	344.7
160°	273.1	278.8	285.7	292.7	298.9	305.3	312.8	320.2	326.6	332.3	336.4
162.5°	275.3	280.1	286.2	292.2	297.1	302.6	308.6	314.8	320.1	325.5	329.0
165°	278.2	282.3	286.8	290.8	294.4	298.4	303.0	307.6	311.0	315.1	317.9
167.5°	280.8	283.4	286.7	289.9	291.5	294.2	297.6	301.3	304.0	306.3	308.4
170°	282.3	283.4	286.3	288.6	289.7	291.4	294.4	297.2	298.9	301.2	302.4
172.5°	283.2	283.9	286.3	288.1	288.3	289.1	291.1	293.6	294.8	296.6	297.3
175°	284.0	284.6	285.7	286.8	286.3	286.3	287.4	288.6	289.1	290.3	290.3
177.5°	284.6	284.6	285.0	285.9	285.0	284.6	285.0	285.5	285.9	286.4	286.4
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332368-840

CATALOG NUMBER: S123RDIP-S1165D585U840-4F0-1E-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°	26.8	25.5	25.7	26.2	25.7	25.5	26.8	25.5	25.3	25.2	24.4
90°	16.2	16.7	17.3	16.7	17.3	16.7	16.2	16.7	15.6	14.9	14.4
92.5°	30.0	28.2	28.8	27.8	28.8	28.2	30.0	31.0	34.0	38.5	48.5
95°	78.4	73.1	69.1	66.9	69.1	73.1	78.4	89.3	110.0	140.6	207.3
97.5°	228.3	202.4	186.8	181.9	186.8	202.4	228.3	270.8	339.7	414.0	516.9
100°	425.1	383.0	360.6	361.1	360.6	383.0	425.1	483.2	565.0	632.5	679.1
102.5°	595.1	561.8	543.0	529.8	543.0	561.8	595.1	640.4	692.3	731.5	733.1
105°	775.9	754.0	735.6	732.7	735.6	754.0	775.9	802.3	817.4	806.4	748.8
107.5°	868.4	861.0	854.7	849.5	854.7	861.0	868.4	867.9	847.4	797.0	703.4
110°	895.1	899.7	898.6	897.4	898.6	899.7	895.1	879.0	838.7	766.1	660.0



TEST NUMBER: P332368-840

CATALOG NUMBER: S123RDIP-S1165D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	888.2	902.5	906.9	907.1	906.9	902.5	888.2	858.7	806.9	725.5	617.2
115°	851.3	876.7	888.2	891.1	888.2	876.7	851.3	808.1	745.4	660.7	560.5
117.5°	790.6	819.6	836.3	840.1	836.3	819.6	790.6	745.6	681.9	605.8	519.3
120°	748.2	780.5	794.3	797.8	794.3	780.5	748.2	702.8	644.5	575.4	497.7
122.5°	709.5	738.5	753.8	758.1	753.8	738.5	709.5	669.0	615.0	551.0	480.6
125°	658.9	684.3	698.7	702.8	698.7	684.3	658.9	622.1	576.0	520.7	457.9
127.5°	618.7	640.4	653.4	657.1	653.4	640.4	618.7	585.9	544.0	494.1	438.1
130°	593.9	614.6	626.7	631.3	626.7	614.6	593.9	563.3	524.1	477.5	425.7
132.5°	571.3	592.0	602.7	605.9	602.7	592.0	571.3	542.6	505.2	461.8	414.1
135°	538.0	555.2	565.6	569.7	565.6	555.2	538.0	509.8	477.0	439.5	398.6
137.5°	502.4	519.9	528.7	531.3	528.7	519.9	502.4	478.7	450.2	418.0	384.5
140°	479.8	495.9	505.1	504.5	505.1	495.9	479.8	457.9	433.1	405.5	376.2
142.5°	457.7	472.0	480.3	479.7	480.3	472.0	457.7	439.0	417.5	393.5	368.3
145°	427.4	439.5	444.1	445.2	444.1	439.5	427.4	413.0	396.3	377.9	358.8
147.5°	403.8	412.0	416.5	416.9	416.5	412.0	403.8	392.9	381.1	366.2	351.1
150°	390.5	396.9	400.3	400.3	400.3	396.9	390.5	381.9	370.9	358.8	345.6
152.5°	378.5	384.5	386.5	386.5	386.5	384.5	378.5	371.7	362.6	351.9	340.5
155°	362.8	367.5	368.6	369.2	368.6	367.5	362.8	357.7	350.8	342.1	333.0
157.5°	349.2	352.6	353.6	353.5	353.6	352.6	349.2	344.7	339.3	332.5	324.9
160°	340.4	343.9	343.9	343.3	343.9	343.9	340.4	336.4	332.3	326.6	320.2
162.5°	331.6	334.7	334.7	334.1	334.7	334.7	331.6	329.0	325.5	320.1	314.8
165°	320.2	322.6	321.9	321.9	321.9	322.6	320.2	317.9	315.1	311.0	307.6
167.5°	309.4	311.0	310.4	310.4	310.4	311.0	309.4	308.4	306.3	304.0	301.3
170°	303.0	304.2	303.6	303.6	303.6	304.2	303.0	302.4	301.2	298.9	297.2
172.5°	297.4	298.6	297.6	297.1	297.6	298.6	297.4	297.3	296.6	294.8	293.6
175°	290.3	290.8	290.3	289.7	290.3	290.8	290.3	290.3	290.3	289.1	288.6
177.5°	285.9	286.4	285.5	285.5	285.5	286.4	285.9	286.4	286.4	285.9	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332368-840

CATALOG NUMBER: S123RDIP-S1165D585U840-4F0-1E-UDD-A4

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°	24.3	23.8	24.1	23.1	22.1	21.2	19.1	19.5	19.1	21.4	20.5
90°	13.8	14.4	12.6	10.9	9.2	7.5	6.4	5.2	3.4	2.3	1.1
92.5°	66.9	88.6	97.5	73.1	48.4	33.3	24.7	19.9	15.5	10.6	7.2
95°	277.0	341.5	304.2	209.6	123.8	74.8	52.4	37.5	27.7	21.3	19.6
97.5°	566.3	529.4	387.5	230.0	133.3	86.5	62.2	47.5	39.0	34.0	33.4
100°	658.9	545.4	368.6	217.1	131.9	91.6	69.1	55.3	47.3	43.2	42.6
102.5°	663.6	515.5	341.0	206.1	133.7	97.6	77.0	64.5	57.0	53.3	52.3
105°	628.4	463.1	307.0	198.1	138.9	107.8	89.9	78.9	72.0	68.6	66.9
107.5°	566.9	416.8	285.4	197.5	148.2	121.0	104.4	94.1	87.4	84.0	82.2
110°	528.2	390.5	277.0	199.9	156.1	130.2	114.0	104.2	98.0	95.0	93.3



TEST NUMBER: P332368-840

CATALOG NUMBER: S123RDIP-S1165D585U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.5	373.0	272.5	204.5	163.9	139.9	124.2	114.4	108.1	105.2	103.4
115°	453.9	354.3	270.7	212.0	176.8	154.9	139.4	129.6	123.8	120.4	118.1
117.5°	429.4	343.2	271.8	221.9	190.6	168.8	154.5	143.5	138.3	135.3	132.7
120°	416.5	338.1	273.6	229.2	199.2	178.5	164.2	153.2	147.4	144.6	142.9
122.5°	405.9	334.9	276.8	236.2	208.5	188.2	172.9	162.4	156.2	153.3	151.6
125°	392.2	330.6	281.7	247.1	221.8	201.6	186.0	175.1	168.7	165.3	164.2
127.5°	380.3	328.5	287.2	256.1	233.3	213.8	198.2	186.1	179.8	175.4	173.7
130°	373.9	327.2	290.8	262.1	240.1	221.2	205.6	193.5	186.6	181.5	179.8
132.5°	367.8	326.7	293.7	267.6	246.2	227.6	212.6	200.5	192.2	186.5	184.3
135°	360.0	326.0	297.8	274.8	255.2	237.3	221.8	209.6	201.1	194.7	192.4
137.5°	353.3	324.8	300.5	280.0	261.4	244.2	229.8	217.8	208.6	202.4	200.0
140°	349.0	324.3	302.4	282.9	265.5	248.8	234.4	222.9	213.7	207.9	205.1
142.5°	345.4	323.4	303.8	285.6	268.7	252.6	239.0	227.5	219.2	213.0	210.6
145°	340.4	321.9	304.7	288.6	273.1	258.0	244.8	235.0	226.4	221.2	219.4
147.5°	335.6	319.8	304.7	290.4	276.5	262.8	251.5	242.1	234.6	229.4	228.4
150°	332.3	317.9	304.7	290.8	278.8	265.5	255.2	247.1	239.6	235.0	234.4
152.5°	328.7	315.7	303.4	291.9	280.1	268.7	258.8	251.8	245.2	240.5	240.4
155°	323.2	311.6	301.8	292.1	282.9	273.1	265.0	258.6	252.9	249.4	249.4
157.5°	316.9	308.0	299.8	292.7	284.3	276.5	270.2	264.9	259.7	257.0	256.5
160°	312.8	305.3	298.9	292.7	285.7	278.8	273.1	269.0	264.4	262.1	262.1
162.5°	308.6	302.6	297.1	292.2	286.2	280.1	275.3	271.8	268.1	266.2	266.2
165°	303.0	298.4	294.4	290.8	286.8	282.3	278.2	275.9	273.1	271.9	272.5
167.5°	297.6	294.2	291.5	289.9	286.7	283.4	280.8	279.2	277.0	276.5	277.2
170°	294.4	291.4	289.7	288.6	286.3	283.4	282.3	281.0	279.3	278.8	279.9
172.5°	291.1	289.1	288.3	288.1	286.3	283.9	283.2	282.5	281.2	281.0	281.8
175°	287.4	286.3	286.3	286.8	285.7	284.6	284.0	284.0	282.9	283.4	284.0
177.5°	285.0	284.6	285.0	285.9	285.0	284.6	284.6	284.6	284.1	284.6	285.0
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332368-840

CATALOG NUMBER: S123RDIP-S1165D585U840-4F0-1E-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°	17.6	14.0	13.7	12.0	12.3	11.4	12.3	11.4	11.1	11.6	10.5
90°	2.3	3.4	5.2	6.4	7.5	9.2	10.9	12.6	14.4	13.8	14.4
92.5°	10.6	15.5	19.9	24.7	33.3	48.4	73.1	97.5	88.6	66.9	48.5
95°	21.3	27.7	37.5	52.4	74.8	123.8	209.6	304.2	341.5	277.0	207.3
97.5°	34.0	39.0	47.5	62.2	86.5	133.3	230.0	387.5	529.4	566.3	516.9
100°	43.2	47.3	55.3	69.1	91.6	131.9	217.1	368.6	545.4	658.9	679.1
102.5°	53.3	57.0	64.5	77.0	97.6	133.7	206.1	341.0	515.5	663.6	733.1
105°	68.6	72.0	78.9	89.9	107.8	138.9	198.1	307.0	463.1	628.4	748.8
107.5°	84.0	87.4	94.1	104.4	121.0	148.2	197.5	285.4	416.8	566.9	703.4
110°	95.0	98.0	104.2	114.0	130.2	156.1	199.9	277.0	390.5	528.2	660.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.2	108.1	114.4	124.2	139.9	163.9	204.5	272.5	373.0	494.5	617.2
115°	120.4	123.8	129.6	139.4	154.9	176.8	212.0	270.7	354.3	453.9	560.5
117.5°	135.3	138.3	143.5	154.5	168.8	190.6	221.9	271.8	343.2	429.4	519.3
120°	144.6	147.4	153.2	164.2	178.5	199.2	229.2	273.6	338.1	416.5	497.7
122.5°	153.3	156.2	162.4	172.9	188.2	208.5	236.2	276.8	334.9	405.9	480.6
125°	165.3	168.7	175.1	186.0	201.6	221.8	247.1	281.7	330.6	392.2	457.9
127.5°	175.4	179.8	186.1	198.2	213.8	233.3	256.1	287.2	328.5	380.3	438.1
130°	181.5	186.6	193.5	205.6	221.2	240.1	262.1	290.8	327.2	373.9	425.7
132.5°	186.5	192.2	200.5	212.6	227.6	246.2	267.6	293.7	326.7	367.8	414.1
135°	194.7	201.1	209.6	221.8	237.3	255.2	274.8	297.8	326.0	360.0	398.6
137.5°	202.4	208.6	217.8	229.8	244.2	261.4	280.0	300.5	324.8	353.3	384.5
140°	207.9	213.7	222.9	234.4	248.8	265.5	282.9	302.4	324.3	349.0	376.2
142.5°	213.0	219.2	227.5	239.0	252.6	268.7	285.6	303.8	323.4	345.4	368.3
145°	221.2	226.4	235.0	244.8	258.0	273.1	288.6	304.7	321.9	340.4	358.8
147.5°	229.4	234.6	242.1	251.5	262.8	276.5	290.4	304.7	319.8	335.6	351.1
150°	235.0	239.6	247.1	255.2	265.5	278.8	290.8	304.7	317.9	332.3	345.6
152.5°	240.5	245.2	251.8	258.8	268.7	280.1	291.9	303.4	315.7	328.7	340.5
155°	249.4	252.9	258.6	265.0	273.1	282.9	292.1	301.8	311.6	323.2	333.0
157.5°	257.0	259.7	264.9	270.2	276.5	284.3	292.7	299.8	308.0	316.9	324.9
160°	262.1	264.4	269.0	273.1	278.8	285.7	292.7	298.9	305.3	312.8	320.2
162.5°	266.2	268.1	271.8	275.3	280.1	286.2	292.2	297.1	302.6	308.6	314.8
165°	271.9	273.1	275.9	278.2	282.3	286.8	290.8	294.4	298.4	303.0	307.6
167.5°	276.5	277.0	279.2	280.8	283.4	286.7	289.9	291.5	294.2	297.6	301.3
170°	278.8	279.3	281.0	282.3	283.4	286.3	288.6	289.7	291.4	294.4	297.2
172.5°	281.0	281.2	282.5	283.2	283.9	286.3	288.1	288.3	289.1	291.1	293.6
175°	283.4	282.9	284.0	284.0	284.6	285.7	286.8	286.3	286.3	287.4	288.6
177.5°	284.6	284.1	284.6	284.6	284.6	285.0	285.9	285.0	284.6	285.0	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



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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°	10.6	10.7	10.3	10.2	9.7	11.1	9.7
90°	14.9	15.6	16.7	16.2	16.7	17.3	16.7
92.5°	38.5	34.0	31.0	30.0	28.2	28.8	27.8
95°	140.6	110.0	89.3	78.4	73.1	69.1	66.9
97.5°	414.0	339.7	270.8	228.3	202.4	186.8	181.9
100°	632.5	565.0	483.2	425.1	383.0	360.6	361.1
102.5°	731.5	692.3	640.4	595.1	561.8	543.0	529.8
105°	806.4	817.4	802.3	775.9	754.0	735.6	732.7
107.5°	797.0	847.4	867.9	868.4	861.0	854.7	849.5
110°	766.1	838.7	879.0	895.1	899.7	898.6	897.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	725.5	806.9	858.7	888.2	902.5	906.9	907.1
115°	660.7	745.4	808.1	851.3	876.7	888.2	891.1
117.5°	605.8	681.9	745.6	790.6	819.6	836.3	840.1
120°	575.4	644.5	702.8	748.2	780.5	794.3	797.8
122.5°	551.0	615.0	669.0	709.5	738.5	753.8	758.1
125°	520.7	576.0	622.1	658.9	684.3	698.7	702.8
127.5°	494.1	544.0	585.9	618.7	640.4	653.4	657.1
130°	477.5	524.1	563.3	593.9	614.6	626.7	631.3
132.5°	461.8	505.2	542.6	571.3	592.0	602.7	605.9
135°	439.5	477.0	509.8	538.0	555.2	565.6	569.7
137.5°	418.0	450.2	478.7	502.4	519.9	528.7	531.3
140°	405.5	433.1	457.9	479.8	495.9	505.1	504.5
142.5°	393.5	417.5	439.0	457.7	472.0	480.3	479.7
145°	377.9	396.3	413.0	427.4	439.5	444.1	445.2
147.5°	366.2	381.1	392.9	403.8	412.0	416.5	416.9
150°	358.8	370.9	381.9	390.5	396.9	400.3	400.3
152.5°	351.9	362.6	371.7	378.5	384.5	386.5	386.5
155°	342.1	350.8	357.7	362.8	367.5	368.6	369.2
157.5°	332.5	339.3	344.7	349.2	352.6	353.6	353.5
160°	326.6	332.3	336.4	340.4	343.9	343.9	343.3
162.5°	320.1	325.5	329.0	331.6	334.7	334.7	334.1
165°	311.0	315.1	317.9	320.2	322.6	321.9	321.9
167.5°	304.0	306.3	308.4	309.4	311.0	310.4	310.4
170°	298.9	301.2	302.4	303.0	304.2	303.6	303.6
172.5°	294.8	296.6	297.3	297.4	298.6	297.6	297.1
175°	289.1	290.3	290.3	290.3	290.8	290.3	289.7
177.5°	285.9	286.4	286.4	285.9	286.4	285.5	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6

(END OF REPORT)