

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: P332374-840

Luminaire Tested: **S123RDIP-S1165D805U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332374-840
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-S1165D805U840-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7553.9 lumens
Efficiency: N/A
Efficacy: 124.4 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

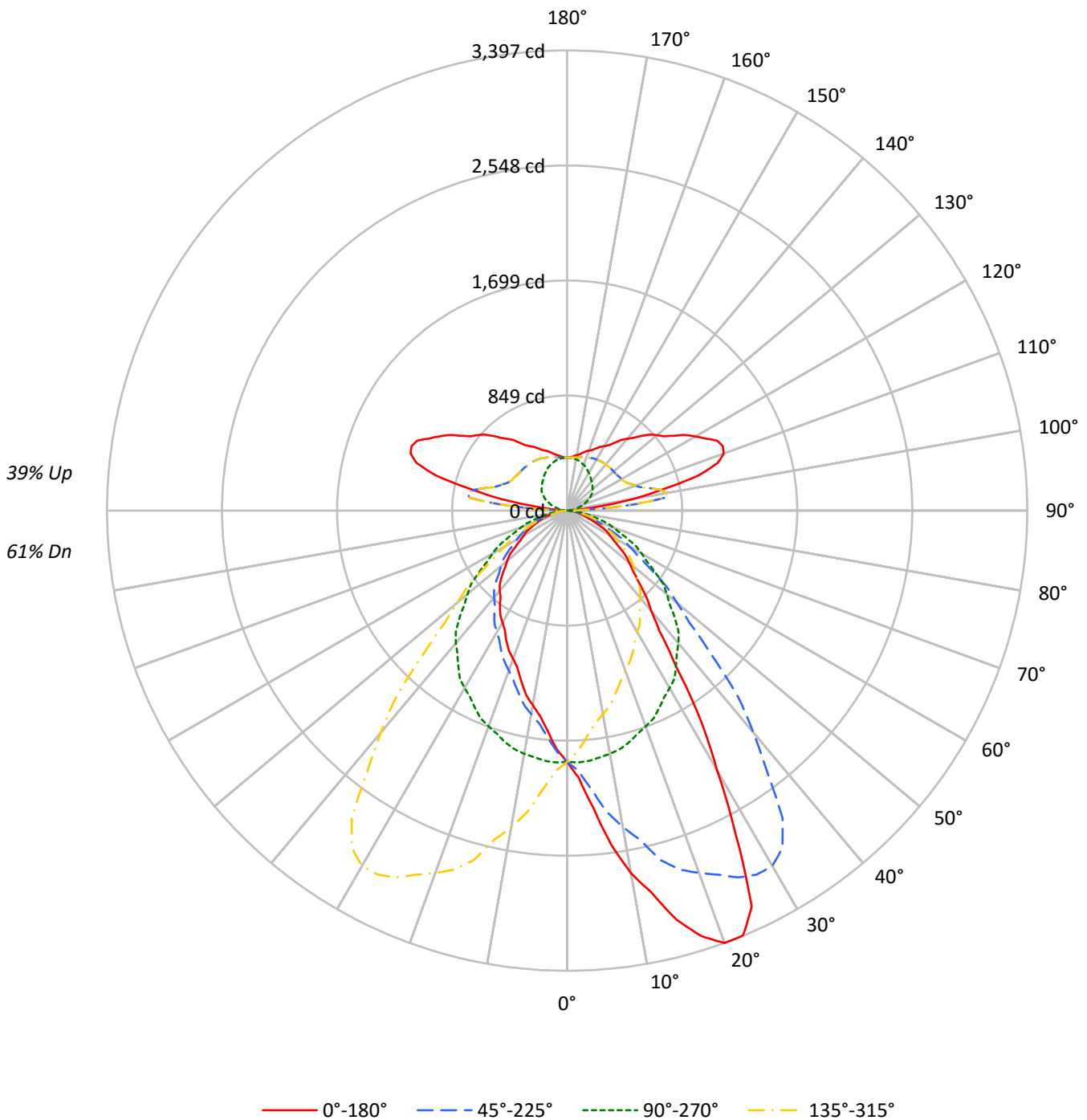
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66	61
1	101	97	93	90	94	91	88	85	80	77	75	69	68	66	60	59	57	53
2	93	85	80	75	86	80	75	71	71	67	63	62	59	56	53	51	50	46
3	85	76	69	63	79	71	65	60	63	58	54	55	52	48	48	45	43	39
4	78	68	60	54	73	64	57	52	56	51	47	50	45	42	43	40	38	34
5	72	61	53	47	67	57	50	45	51	45	41	45	40	37	39	36	33	30
6	67	55	47	41	62	52	45	39	46	40	36	41	36	33	36	32	30	27
7	62	50	42	36	58	47	40	35	42	36	32	37	33	29	33	29	27	24
8	57	45	38	32	54	43	36	31	39	33	29	34	30	26	30	27	24	22
9	54	41	34	29	50	39	33	28	35	30	26	32	27	24	28	24	22	20
10	50	38	31	26	47	36	30	25	33	27	23	29	25	22	26	23	20	18

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	2.4
10°-20°	569.6	7.5
20°-30°	894.9	11.8
30°-40°	933.7	12.4
40°-50°	799.0	10.6
50°-60°	609.0	8.1
60°-70°	390.4	5.2
70°-80°	187.8	2.5
80°-90°	52.7	0.7
90°-100°	217.1	2.9
100°-110°	614.6	8.1
110°-120°	604.6	8.0
120°-130°	482.3	6.4
130°-140°	380.2	5.0
140°-150°	283.8	3.8
150°-160°	197.8	2.6
160°-170°	116.2	1.5
170°-180°	37.8	0.5
0°-30°	1646.9	21.8
0°-40°	2580.6	34.2
0°-60°	3988.6	52.8
0°-90°	4619.5	61.2
90°-120°	1436.3	19.0
90°-150°	2582.6	34.2
90°-180°	2934.0	38.8
0°-180°	7553.9	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°	23	2	23	2	23	13
95°	92	27	92	27	92	165
105°	1004	92	1004	92	1004	991
115°	1221	162	1221	162	1221	1187
125°	963	225	963	225	963	873
135°	781	264	781	264	781	606
145°	610	301	610	301	610	388
155°	506	342	506	342	506	236
165°	441	373	441	373	441	126
175°	397	389	397	389	397	39
180°	390	390	390	390	390	



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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°	10.9	12.3	10.9	11.4	11.6	11.9	11.7	11.6	12.7	12.2	12.3
90°	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7	19.0	19.7	17.4
92.5°	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4	91.6	121.4	133.6
95°	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3	379.8	468.2	416.9
97.5°	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5	776.3	725.6	531.2
100°	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9	903.2	747.7	505.3
102.5°	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7	909.6	706.6	467.4
105°	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4	861.4	634.8	420.8
107.5°	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2	777.1	571.3	391.1
110°	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8	724.0	535.3	379.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1	677.9	511.3	373.4
115°	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2	622.2	485.5	371.1
117.5°	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9	588.5	470.4	372.5
120°	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2	570.9	463.4	375.1
122.5°	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8	556.3	459.1	379.4
125°	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6	537.7	453.2	386.1
127.5°	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6	521.3	450.4	393.6
130°	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5	512.4	448.5	398.7
132.5°	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6	504.2	447.8	402.5
135°	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3	493.4	446.9	408.2
137.5°	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9	484.1	445.1	412.0
140°	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5	478.5	444.5	414.5
142.5°	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8	473.4	443.2	416.4
145°	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9	466.7	441.3	417.7
147.5°	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3	460.0	438.4	417.7
150°	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7	455.6	435.9	417.7
152.5°	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8	450.5	432.6	415.8
155°	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4	442.9	427.2	413.7
157.5°	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2	434.4	422.2	411.0
160°	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0	428.7	418.5	409.8
162.5°	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4	423.0	414.7	407.3
165°	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6	415.3	409.0	403.4
167.5°	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0	407.9	403.3	399.7
170°	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4	403.4	399.5	397.2
172.5°	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3	399.0	396.4	395.3
175°	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6	393.9	392.4	392.4
177.5°	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3	390.6	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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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°	13.1	12.0	12.8	12.5	14.1	14.2	17.8	20.6	21.6	19.4	19.8
90°	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6	3.1	4.7	7.1
92.5°	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8	14.5	21.2	27.4
95°	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9	29.2	37.9	51.3
97.5°	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7	46.6	53.4	65.0
100°	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5	59.2	64.7	75.8
102.5°	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7	73.1	78.0	88.5
105°	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6	93.9	98.7	108.2
107.5°	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7	115.1	119.7	129.0
110°	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9	130.3	134.2	142.9



TEST NUMBER: P332374-840

CATALOG NUMBER: S123RDIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8	144.2	148.1	156.8
115°	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9	165.0	169.8	177.6
117.5°	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9	185.5	189.5	196.7
120°	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8	198.1	202.1	210.1
122.5°	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8	210.2	214.1	222.7
125°	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0	226.6	231.4	240.0
127.5°	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1	240.4	246.3	255.2
130°	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3	248.7	255.8	265.3
132.5°	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7	255.7	263.4	274.8
135°	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7	266.9	275.6	287.4
137.5°	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1	277.4	286.0	298.6
140°	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0	285.0	293.0	305.6
142.5°	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6	292.0	300.5	311.8
145°	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8	303.2	310.3	322.1
147.5°	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2	314.6	321.5	331.7
150°	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3	322.1	328.4	338.7
152.5°	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5	329.7	336.0	345.1
155°	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8	341.8	346.6	354.5
157.5°	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6	352.2	356.1	363.0
160°	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2	359.2	362.4	368.7
162.5°	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0	365.0	367.5	372.5
165°	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4	372.6	374.3	378.2
167.5°	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9	379.0	379.8	382.7
170°	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7	382.1	382.9	385.3
172.5°	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3	385.3	385.5	387.2
175°	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2	388.5	387.7	389.2
177.5°	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6	390.0	389.4	390.0
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332374-840

CATALOG NUMBER: S123RDIP-S1165D805U840-4F0-1E-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°	19.5	21.7	22.8	23.9	25.0	24.9	25.3	25.5	26.4	26.5	26.8
90°	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7	20.5	21.3	22.9
92.5°	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4	52.7	46.6	42.5
95°	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3	192.7	150.8	122.4
97.5°	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5	567.5	465.6	371.2
100°	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9	866.9	774.6	662.4
102.5°	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7	1002.7	948.9	877.8
105°	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4	1105.3	1120.3	1099.8
107.5°	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2	1092.4	1161.5	1189.6
110°	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8	1050.1	1149.5	1204.9



TEST NUMBER: P332374-840

CATALOG NUMBER: S123RDIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1	994.5	1106.0	1177.0
115°	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2	905.5	1021.7	1107.7
117.5°	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9	830.4	934.6	1022.0
120°	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2	788.7	883.5	963.2
122.5°	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8	755.3	843.0	917.2
125°	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6	713.8	789.5	852.7
127.5°	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6	677.2	745.7	803.1
130°	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5	654.5	718.5	772.1
132.5°	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6	633.1	692.6	743.8
135°	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3	602.4	653.7	698.7
137.5°	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9	572.9	617.1	656.1
140°	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5	555.8	593.7	627.6
142.5°	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8	539.4	572.3	601.8
145°	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9	518.0	543.2	566.1
147.5°	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3	502.0	522.4	538.7
150°	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7	491.9	508.5	523.4
152.5°	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8	482.4	497.1	509.6
155°	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4	469.0	480.8	490.3
157.5°	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2	455.9	465.0	472.4
160°	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0	447.7	455.6	461.1
162.5°	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4	438.8	446.1	451.0
165°	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6	426.4	431.9	435.9
167.5°	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0	416.7	419.9	422.7
170°	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4	409.8	412.9	414.5
172.5°	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3	404.0	406.6	407.6
175°	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6	396.4	397.9	397.9
177.5°	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3	391.9	392.5	392.5
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332374-840

CATALOG NUMBER: S123RDIP-S1165D805U840-4F0-1E-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°	27.9	26.8	27.0	27.5	27.0	26.8	27.9	26.8	26.5	26.4	25.5
90°	22.1	22.9	23.7	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7
92.5°	41.1	38.7	39.5	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4
95°	107.3	100.3	94.7	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3
97.5°	313.0	277.4	256.1	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5
100°	582.7	525.0	494.2	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9
102.5°	815.8	770.1	744.4	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7
105°	1063.5	1033.5	1008.2	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4
107.5°	1190.3	1180.2	1171.6	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2
110°	1226.9	1233.2	1231.6	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8



TEST NUMBER: P332374-840

CATALOG NUMBER: S123RDIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1217.5	1237.1	1243.0	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1
115°	1166.9	1201.6	1217.5	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2
117.5°	1083.7	1123.5	1146.2	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9
120°	1025.6	1069.9	1088.7	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2
122.5°	972.5	1012.3	1033.2	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8
125°	903.2	938.0	957.7	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6
127.5°	848.1	877.8	895.6	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6
130°	814.1	842.4	859.0	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5
132.5°	783.0	811.5	826.2	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6
135°	737.4	761.1	775.3	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3
137.5°	688.6	712.7	724.7	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9
140°	657.7	679.7	692.5	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5
142.5°	627.3	646.9	658.3	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8
145°	585.8	602.4	608.7	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9
147.5°	553.6	564.8	570.9	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3
150°	535.3	544.0	548.8	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7
152.5°	518.9	526.9	529.8	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8
155°	497.4	503.7	505.3	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4
157.5°	478.6	483.3	484.6	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2
160°	466.7	471.3	471.3	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0
162.5°	454.6	458.7	458.7	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4
165°	439.0	442.1	441.3	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6
167.5°	424.1	426.4	425.6	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0
170°	415.3	416.9	416.1	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4
172.5°	407.7	409.3	407.9	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3
175°	397.9	398.7	397.9	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6
177.5°	391.9	392.5	391.3	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332374-840

CATALOG NUMBER: S123RDIP-S1165D805U840-4F0-1E-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°	25.3	24.9	25.0	23.9	22.8	21.7	19.5	19.8	19.4	21.6	20.6
90°	19.0	19.7	17.4	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6
92.5°	91.6	121.4	133.6	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8
95°	379.8	468.2	416.9	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9
97.5°	776.3	725.6	531.2	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7
100°	903.2	747.7	505.3	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5
102.5°	909.6	706.6	467.4	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7
105°	861.4	634.8	420.8	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6
107.5°	777.1	571.3	391.1	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7
110°	724.0	535.3	379.8	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9



TEST NUMBER: P332374-840

CATALOG NUMBER: S123RDIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	677.9	511.3	373.4	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8
115°	622.2	485.5	371.1	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9
117.5°	588.5	470.4	372.5	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9
120°	570.9	463.4	375.1	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8
122.5°	556.3	459.1	379.4	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8
125°	537.7	453.2	386.1	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0
127.5°	521.3	450.4	393.6	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1
130°	512.4	448.5	398.7	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3
132.5°	504.2	447.8	402.5	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7
135°	493.4	446.9	408.2	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7
137.5°	484.1	445.1	412.0	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1
140°	478.5	444.5	414.5	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0
142.5°	473.4	443.2	416.4	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6
145°	466.7	441.3	417.7	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8
147.5°	460.0	438.4	417.7	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2
150°	455.6	435.9	417.7	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3
152.5°	450.5	432.6	415.8	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5
155°	442.9	427.2	413.7	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8
157.5°	434.4	422.2	411.0	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6
160°	428.7	418.5	409.8	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2
162.5°	423.0	414.7	407.3	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0
165°	415.3	409.0	403.4	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4
167.5°	407.9	403.3	399.7	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9
170°	403.4	399.5	397.2	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7
172.5°	399.0	396.4	395.3	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3
175°	393.9	392.4	392.4	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2
177.5°	390.6	390.0	390.6	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332374-840

CATALOG NUMBER: S123RDIP-S1165D805U840-4F0-1E-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°	17.8	14.2	14.1	12.5	12.8	12.0	13.1	12.3	12.2	12.7	11.6
90°	3.1	4.7	7.1	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7
92.5°	14.5	21.2	27.4	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4
95°	29.2	37.9	51.3	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3
97.5°	46.6	53.4	65.0	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5
100°	59.2	64.7	75.8	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9
102.5°	73.1	78.0	88.5	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7
105°	93.9	98.7	108.2	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4
107.5°	115.1	119.7	129.0	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2
110°	130.3	134.2	142.9	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.2	148.1	156.8	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1
115°	165.0	169.8	177.6	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2
117.5°	185.5	189.5	196.7	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9
120°	198.1	202.1	210.1	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2
122.5°	210.2	214.1	222.7	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8
125°	226.6	231.4	240.0	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6
127.5°	240.4	246.3	255.2	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6
130°	248.7	255.8	265.3	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5
132.5°	255.7	263.4	274.8	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6
135°	266.9	275.6	287.4	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3
137.5°	277.4	286.0	298.6	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9
140°	285.0	293.0	305.6	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5
142.5°	292.0	300.5	311.8	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8
145°	303.2	310.3	322.1	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9
147.5°	314.6	321.5	331.7	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3
150°	322.1	328.4	338.7	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7
152.5°	329.7	336.0	345.1	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8
155°	341.8	346.6	354.5	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4
157.5°	352.2	356.1	363.0	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2
160°	359.2	362.4	368.7	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0
162.5°	365.0	367.5	372.5	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4
165°	372.6	374.3	378.2	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6
167.5°	379.0	379.8	382.7	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0
170°	382.1	382.9	385.3	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4
172.5°	385.3	385.5	387.2	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3
175°	388.5	387.7	389.2	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6
177.5°	390.0	389.4	390.0	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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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°	11.7	11.9	11.6	11.4	10.9	12.3	10.9
90°	20.5	21.3	22.9	22.1	22.9	23.7	22.9
92.5°	52.7	46.6	42.5	41.1	38.7	39.5	38.1
95°	192.7	150.8	122.4	107.3	100.3	94.7	91.6
97.5°	567.5	465.6	371.2	313.0	277.4	256.1	249.3
100°	866.9	774.6	662.4	582.7	525.0	494.2	495.0
102.5°	1002.7	948.9	877.8	815.8	770.1	744.4	726.2
105°	1105.3	1120.3	1099.8	1063.5	1033.5	1008.2	1004.3
107.5°	1092.4	1161.5	1189.6	1190.3	1180.2	1171.6	1164.4
110°	1050.1	1149.5	1204.9	1226.9	1233.2	1231.6	1230.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	994.5	1106.0	1177.0	1217.5	1237.1	1243.0	1243.3
115°	905.5	1021.7	1107.7	1166.9	1201.6	1217.5	1221.4
117.5°	830.4	934.6	1022.0	1083.7	1123.5	1146.2	1151.7
120°	788.7	883.5	963.2	1025.6	1069.9	1088.7	1093.5
122.5°	755.3	843.0	917.2	972.5	1012.3	1033.2	1039.2
125°	713.8	789.5	852.7	903.2	938.0	957.7	963.2
127.5°	677.2	745.7	803.1	848.1	877.8	895.6	900.7
130°	654.5	718.5	772.1	814.1	842.4	859.0	865.4
132.5°	633.1	692.6	743.8	783.0	811.5	826.2	830.6
135°	602.4	653.7	698.7	737.4	761.1	775.3	780.8
137.5°	572.9	617.1	656.1	688.6	712.7	724.7	728.3
140°	555.8	593.7	627.6	657.7	679.7	692.5	691.7
142.5°	539.4	572.3	601.8	627.3	646.9	658.3	657.5
145°	518.0	543.2	566.1	585.8	602.4	608.7	610.3
147.5°	502.0	522.4	538.7	553.6	564.8	570.9	571.5
150°	491.9	508.5	523.4	535.3	544.0	548.8	548.8
152.5°	482.4	497.1	509.6	518.9	526.9	529.8	529.8
155°	469.0	480.8	490.3	497.4	503.7	505.3	506.0
157.5°	455.9	465.0	472.4	478.6	483.3	484.6	484.4
160°	447.7	455.6	461.1	466.7	471.3	471.3	470.6
162.5°	438.8	446.1	451.0	454.6	458.7	458.7	458.0
165°	426.4	431.9	435.9	439.0	442.1	441.3	441.3
167.5°	416.7	419.9	422.7	424.1	426.4	425.6	425.6
170°	409.8	412.9	414.5	415.3	416.9	416.1	416.1
172.5°	404.0	406.6	407.6	407.7	409.3	407.9	407.3
175°	396.4	397.9	397.9	397.9	398.7	397.9	397.2
177.5°	391.9	392.5	392.5	391.9	392.5	391.3	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0

(END OF REPORT)