

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: P332450-830

Luminaire Tested: **S123RDIW-S1000D460U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332450-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1000D460U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5470.5 lumens
Efficiency: N/A
Efficacy: 118.4 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

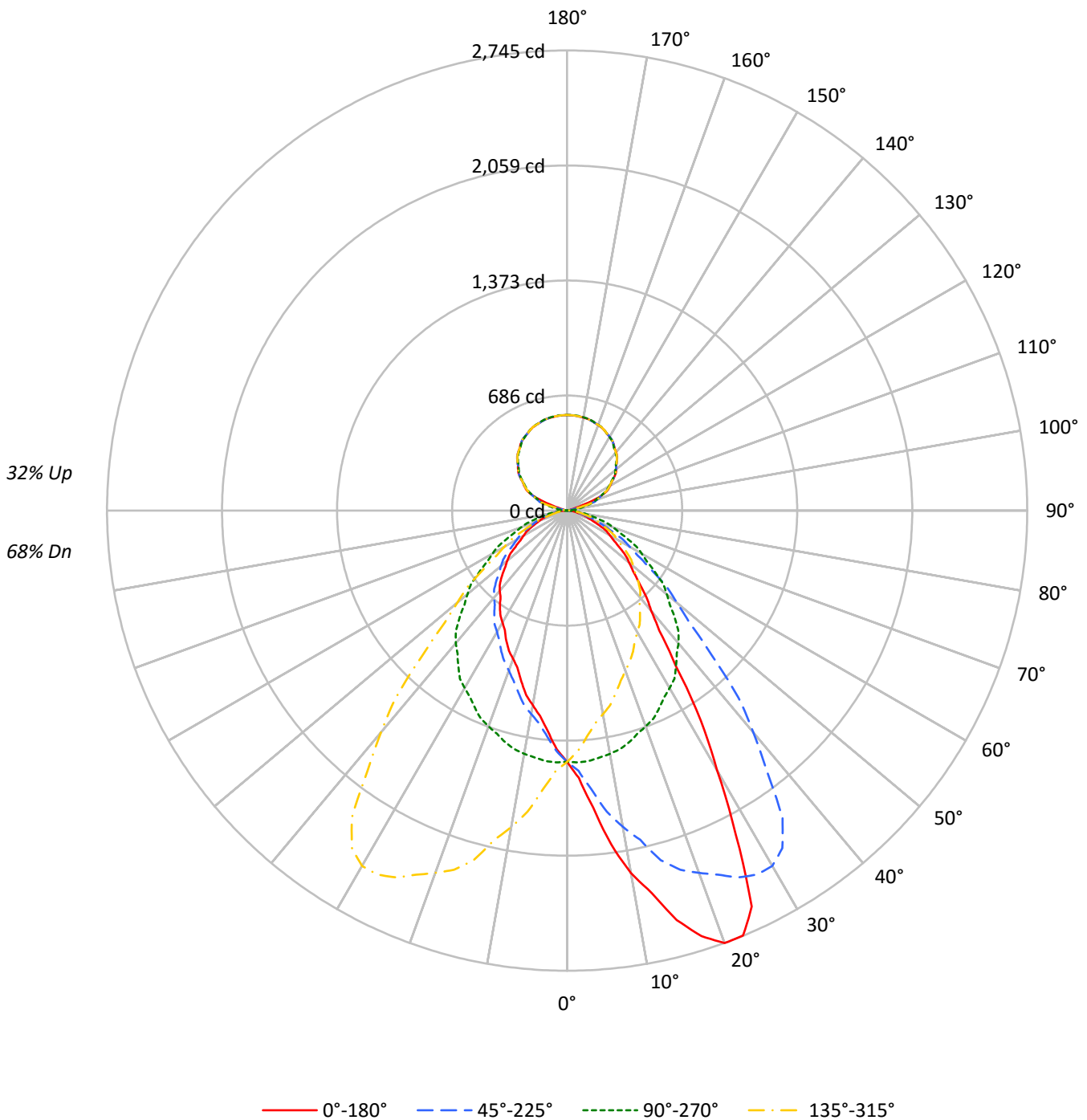
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	103	99	95	91	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	56	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	59	49	41	36	44	38	34	40	35	31	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°	16129	16129	16129	16129
5°	19225	16197	14263	16197
10°	24004	16104	12885	16104
15°	28178	15940	11751	15940
20°	31447	15694	10786	15694
25°	30945	15435	10194	15435
30°	22243	15196	9583	15196
35°	14851	14884	9188	14884
40°	10942	14511	8778	14511
45°	9178	13855	8378	13855
50°	8098	12996	7819	12996
55°	7101	12014	7054	12014
60°	6325	11074	6463	11074
65°	5555	10063	6011	10063
70°	4362	9165	5492	9165
75°	3843	8006	5016	8006
80°	3341	6800	4934	6800
85°	2692	5471	5224	5471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.7
10°-20°	460.3	8.4
20°-30°	723.2	13.2
30°-40°	754.5	13.8
40°-50°	645.7	11.8
50°-60°	492.2	9.0
60°-70°	315.5	5.8
70°-80°	151.8	2.8
80°-90°	41.8	0.8
90°-100°	20.7	0.4
100°-110°	98.8	1.8
110°-120°	237.2	4.3
120°-130°	302.1	5.5
130°-140°	322.8	5.9
140°-150°	301.8	5.5
150°-160°	243.5	4.5
160°-170°	157.1	2.9
170°-180°	54.2	1.0
0°-30°	1330.9	24.3
0°-40°	2085.5	38.1
0°-60°	3223.3	58.9
0°-90°	3732.3	68.2
90°-120°	356.7	6.5
90°-150°	1283.4	23.5
90°-180°	1738.0	31.8
0°-180°	5470.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1498	1498	1498	1498	1498	
5°	1779	1499	1320	1499	1779	184
15°	2529	1430	1054	1430	2529	717
25°	2606	1300	858	1300	2606	1120
35°	1130	1133	699	1133	1130	741
45°	603	910	550	910	603	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	215
75°	92	192	121	192	92	99
85°	22	44	42	44	22	25
90°	13	0	13	0	13	6
95°	16	26	16	26	16	13
105°	19	126	19	126	19	43
115°	249	237	249	237	249	230
125°	340	334	340	334	340	304
135°	420	415	420	415	420	324
145°	484	479	484	479	484	302
155°	527	528	527	528	527	243
165°	556	557	556	557	556	157
175°	568	570	568	570	568	54
180°	570	570	570	570	570	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1595.9	1597.9	1591.3	1590.3	1582.5	1580.5	1580.5	1569.7	1563.0	1554.3	1549.2
5°	1779.3	1789.6	1784.4	1772.9	1753.7	1749.2	1737.0	1717.8	1695.9	1669.0	1656.1
7.5°	2008.5	2022.4	2017.0	1999.2	1979.1	1962.8	1928.4	1896.5	1851.7	1812.4	1778.9
10°	2196.2	2181.5	2169.9	2152.7	2134.0	2103.8	2067.9	2018.5	1961.5	1916.6	1866.6
12.5°	2336.8	2334.4	2319.8	2302.0	2275.7	2247.0	2202.9	2142.8	2076.4	2011.6	1954.3
15°	2528.6	2532.3	2522.7	2504.1	2466.9	2416.3	2349.6	2324.6	2229.6	2159.1	2088.5
17.5°	2661.2	2660.4	2659.1	2633.4	2595.4	2559.3	2497.5	2431.7	2345.7	2246.3	2151.3
20°	2745.3	2738.9	2740.2	2711.3	2683.1	2641.4	2581.2	2485.6	2415.0	2300.2	2202.1
22.5°	2743.3	2742.0	2746.9	2737.0	2716.5	2684.5	2637.0	2556.4	2466.3	2350.4	2240.0
25°	2605.5	2600.4	2630.5	2638.8	2671.5	2677.3	2663.2	2618.9	2533.6	2414.3	2277.7
27.5°	2180.6	2177.7	2233.7	2303.8	2392.6	2461.5	2528.3	2560.5	2533.6	2448.3	2311.3
30°	1789.6	1849.9	1878.1	1979.4	2092.4	2227.0	2345.0	2457.3	2484.9	2447.7	2335.4
32.5°	1485.8	1538.4	1562.0	1649.0	1754.2	1911.9	2089.1	2248.0	2360.2	2388.7	2321.1
35°	1130.2	1130.9	1184.7	1223.2	1320.7	1483.0	1654.9	1867.8	2079.5	2239.9	2256.5
37.5°	901.8	905.0	937.6	976.0	1049.1	1134.9	1286.3	1463.4	1707.9	1954.1	2098.4
40°	778.7	784.5	808.9	846.7	899.3	964.0	1082.1	1248.9	1452.8	1726.7	1950.6
42.5°	699.6	709.1	721.6	750.7	783.3	844.0	939.4	1068.3	1253.8	1512.8	1771.0
45°	602.9	608.0	617.7	631.1	660.6	703.0	767.1	853.8	1007.7	1216.2	1474.6
47.5°	531.9	529.1	539.3	550.3	569.9	598.7	641.7	712.4	822.2	989.5	1208.7
50°	483.6	483.0	490.0	498.4	517.0	538.2	573.4	626.7	713.9	852.4	1053.2
52.5°	438.5	440.9	445.9	456.3	469.8	486.8	518.5	556.9	631.8	751.4	918.8
55°	378.4	380.4	387.4	393.2	402.8	420.1	440.0	472.1	523.4	606.8	744.7
57.5°	327.6	326.8	333.6	335.0	345.8	360.0	375.3	400.3	437.4	499.5	592.3
60°	293.8	291.8	297.7	302.1	307.9	319.4	332.2	356.7	386.2	431.7	511.2
62.5°	263.0	262.1	266.4	270.8	275.6	286.1	296.9	315.6	338.9	377.3	440.5
65°	218.1	220.0	222.0	223.9	226.4	232.8	243.1	255.9	271.9	298.9	344.4
67.5°	171.4	173.3	174.0	178.0	183.4	187.5	193.7	205.1	216.3	239.0	264.9
70°	138.6	137.9	138.6	140.4	147.5	154.6	163.0	171.3	178.3	194.4	216.1
72.5°	119.0	117.9	119.6	120.0	123.4	125.4	130.6	138.5	147.5	158.4	174.1
75°	92.4	92.4	92.4	92.4	94.9	96.2	98.1	100.1	103.3	108.4	120.0
77.5°	68.2	68.3	69.3	69.9	70.4	71.2	72.4	74.3	75.4	78.1	83.1
80°	53.9	54.5	53.9	54.5	54.5	55.8	56.5	58.3	59.0	62.2	64.2
82.5°	40.5	40.2	40.5	41.2	41.2	42.5	42.6	44.0	44.1	45.8	47.7
85°	21.8	20.5	21.8	21.2	22.4	21.2	21.8	23.1	23.1	23.8	26.3
87.5°	7.6	8.7	7.6	8.1	8.0	8.5	8.4	8.3	9.3	8.7	9.0
90°	12.7	12.5	12.3	12.2	12.0	11.7	11.3	10.9	10.6	10.2	9.0
92.5°	14.0	13.9	13.9	13.8	13.6	13.3	12.6	12.1	11.4	10.8	9.9
95°	16.1	16.1	16.1	16.1	16.1	15.7	15.1	14.4	13.8	13.1	12.1
97.5°	17.4	17.3	17.2	17.2	17.1	16.7	15.9	15.2	14.4	13.7	20.5
100°	17.8	17.7	17.6	17.5	17.4	17.0	16.2	15.5	14.7	13.9	28.7
102.5°	18.1	17.9	17.8	17.6	17.4	18.6	20.8	23.2	25.5	27.9	43.9
105°	18.7	18.5	18.3	18.1	17.9	26.1	42.8	59.4	76.1	92.7	101.2
107.5°	58.5	71.1	83.6	96.1	108.8	121.1	133.4	145.5	157.8	169.9	168.6
110°	116.5	129.9	143.4	156.8	170.3	178.5	181.6	184.7	187.8	191.0	189.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	199.8	202.6	205.5	208.3	211.1	212.5	212.4	212.4	212.4	212.4	211.3
115°	249.0	248.6	248.3	247.9	247.5	246.9	245.9	245.0	244.0	243.1	242.2
117.5°	276.6	276.5	276.4	276.4	276.3	275.9	275.1	274.4	273.6	272.9	272.5
120°	295.6	295.6	295.6	295.6	295.6	295.2	294.5	293.7	292.9	292.2	291.9
122.5°	314.2	314.1	314.1	314.0	313.9	313.6	313.1	312.5	312.0	311.5	311.1
125°	340.4	340.3	340.1	339.9	339.7	339.5	339.3	339.1	338.9	338.7	338.4
127.5°	365.7	365.9	366.1	366.3	366.5	366.4	366.1	365.8	365.5	365.2	364.8
130°	381.9	382.1	382.3	382.5	382.7	382.6	382.2	381.8	381.4	381.1	380.8
132.5°	396.9	397.1	397.4	397.7	397.9	397.8	397.5	397.1	396.7	396.3	396.1
135°	419.6	419.9	420.2	420.5	420.8	420.8	420.5	420.2	419.9	419.6	419.2
137.5°	441.1	441.3	441.5	441.7	441.9	441.7	441.2	440.8	440.4	439.9	439.7
140°	453.9	454.1	454.3	454.5	454.7	454.6	454.2	453.8	453.5	453.1	452.8
142.5°	465.8	466.1	466.4	466.6	466.8	466.8	466.6	466.3	465.9	465.6	465.3
145°	484.0	484.0	484.0	484.0	484.0	483.9	483.7	483.5	483.3	483.1	483.0
147.5°	497.6	498.0	498.4	498.9	499.3	499.5	499.3	499.1	498.9	498.7	498.5
150°	507.7	508.0	508.3	508.6	508.9	508.9	508.7	508.5	508.3	508.1	507.9
152.5°	515.9	516.3	516.7	517.2	517.6	517.6	517.3	517.0	516.6	516.3	516.1
155°	527.3	527.7	528.3	528.9	529.4	529.5	529.0	528.6	528.1	527.6	527.5
157.5°	536.8	537.5	538.3	538.9	539.7	539.8	539.2	538.7	538.1	537.5	537.6
160°	542.9	543.6	544.2	544.9	545.5	545.5	545.0	544.4	543.8	543.3	543.4
162.5°	548.7	549.2	549.8	550.4	551.0	550.9	550.4	549.7	549.0	548.4	548.5
165°	555.6	556.3	556.9	557.5	558.2	558.2	557.4	556.7	555.9	555.2	555.3
167.5°	560.6	561.4	562.1	562.8	563.5	563.5	562.8	562.1	561.4	560.6	560.6
170°	563.6	564.4	565.1	565.9	566.7	566.7	565.9	565.1	564.4	563.6	563.6
172.5°	565.3	566.2	566.9	567.8	568.6	568.6	567.9	567.1	566.4	565.6	565.6
175°	567.9	568.6	569.4	570.1	570.9	570.9	570.2	569.6	568.9	568.3	568.2
177.5°	568.6	569.4	570.1	570.9	571.7	571.7	571.1	570.5	569.9	569.3	569.2
180°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1547.1	1545.6	1538.4	1530.2	1519.4	1512.2	1506.6	1503.5	1494.3	1483.0	1475.3
5°	1642.7	1623.4	1603.0	1577.9	1554.8	1531.1	1516.4	1499.0	1477.8	1454.2	1437.5
7.5°	1745.1	1707.3	1666.7	1624.8	1583.3	1546.1	1513.3	1485.2	1451.4	1417.4	1393.5
10°	1823.6	1768.4	1711.4	1652.9	1599.7	1549.7	1511.2	1473.4	1432.9	1393.8	1364.3
12.5°	1894.9	1822.3	1756.5	1684.8	1616.6	1556.9	1501.5	1457.0	1408.3	1366.6	1333.0
15°	1985.2	1910.8	1831.3	1722.2	1631.8	1556.1	1488.7	1430.4	1371.4	1320.0	1287.3
17.5°	2069.6	1957.7	1850.8	1759.8	1642.3	1547.7	1465.6	1395.7	1331.0	1276.6	1236.3
20°	2104.5	1996.1	1880.0	1764.0	1648.5	1542.7	1447.1	1370.1	1302.8	1241.1	1204.0
22.5°	2125.5	2002.8	1880.6	1755.8	1633.0	1523.1	1428.6	1344.0	1270.9	1212.4	1166.5
25°	2150.0	2003.8	1869.2	1746.0	1620.9	1501.6	1389.3	1299.6	1220.7	1158.4	1109.7
27.5°	2166.2	1994.2	1835.0	1698.1	1571.2	1452.5	1349.5	1254.3	1174.3	1108.5	1056.2
30°	2169.4	1986.5	1808.8	1660.7	1531.7	1422.7	1313.6	1222.6	1137.9	1068.0	1019.3
32.5°	2173.4	1967.6	1773.4	1616.0	1484.0	1376.0	1277.2	1190.2	1103.5	1034.6	984.9
35°	2156.5	1957.0	1719.7	1538.8	1406.7	1302.1	1213.0	1132.7	1047.4	980.7	930.1
37.5°	2083.6	1915.3	1664.0	1451.8	1313.6	1216.8	1144.2	1074.3	996.0	924.1	876.3
40°	2010.3	1874.2	1620.9	1398.9	1254.6	1155.2	1089.8	1032.7	957.1	889.7	838.4
42.5°	1900.9	1818.4	1579.9	1343.5	1187.9	1092.1	1036.9	983.4	917.0	848.6	800.4
45°	1700.4	1711.4	1495.8	1255.3	1095.5	999.4	947.3	910.2	851.2	794.8	745.4
47.5°	1449.0	1551.0	1397.1	1161.2	998.2	907.9	862.4	830.0	790.2	734.8	689.8
50°	1284.8	1430.4	1318.1	1098.2	937.2	847.3	802.4	776.1	741.5	697.9	654.9
52.5°	1133.4	1289.8	1222.7	1027.8	870.9	788.8	745.0	723.3	695.8	654.8	615.9
55°	924.3	1082.7	1067.3	921.7	771.7	697.9	664.5	640.2	621.5	590.8	560.0
57.5°	747.6	897.9	905.8	803.7	684.2	611.2	582.6	564.2	552.0	528.8	500.3
60°	636.3	774.2	801.2	724.2	621.5	557.4	529.1	514.4	504.8	486.2	464.4
62.5°	543.9	661.3	691.8	636.4	561.5	501.4	479.4	465.1	458.6	442.6	423.4
65°	416.3	513.8	543.3	512.5	473.3	425.3	407.3	395.1	389.4	380.4	366.3
67.5°	313.0	384.1	416.4	394.7	380.6	350.2	338.8	332.2	327.2	320.9	309.2
70°	251.5	304.1	337.4	331.6	320.1	304.1	295.7	291.2	286.1	281.0	270.7
72.5°	202.2	238.4	269.7	272.6	263.2	260.0	252.6	250.7	247.6	241.5	235.8
75°	134.0	159.1	180.9	189.3	193.0	196.2	193.0	192.5	191.8	186.6	183.4
77.5°	87.8	101.3	115.1	129.3	135.3	139.7	140.7	143.1	141.4	138.6	137.1
80°	67.4	70.6	80.2	92.4	102.0	105.8	108.4	109.7	109.1	108.4	105.8
82.5°	48.9	51.6	56.1	64.7	72.8	79.2	80.7	80.4	81.8	82.2	80.2
85°	26.3	27.0	28.2	29.5	34.0	41.1	43.0	44.3	45.5	45.5	41.7
87.5°	9.7	9.0	9.8	9.5	10.9	11.2	14.1	16.5	17.2	15.4	15.6
90°	7.7	6.5	5.3	4.1	3.2	2.3	1.3	0.4	1.3	2.3	3.2
92.5°	9.0	8.1	7.2	6.8	7.1	7.4	7.6	7.9	7.6	7.4	7.1
95°	11.0	10.0	9.0	10.4	14.2	18.1	22.0	25.8	22.0	18.1	14.2
97.5°	27.1	33.9	40.7	45.0	46.8	48.4	50.1	51.9	50.1	48.4	46.8
100°	43.4	58.1	72.7	79.1	77.2	75.3	73.4	71.5	73.4	75.3	77.2
102.5°	59.9	76.0	92.0	99.3	98.0	96.6	95.3	93.9	95.3	96.6	98.0
105°	109.7	118.1	126.6	130.4	129.3	128.3	127.2	126.2	127.2	128.3	129.3
107.5°	167.3	166.0	164.7	163.5	162.7	161.9	161.1	160.2	161.1	161.9	162.7
110°	188.9	187.8	186.8	186.0	185.2	184.5	183.7	182.9	183.7	184.5	185.2



TEST NUMBER: P332450-830

CATALOG NUMBER: S123RDIW-S1000D460U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	210.3	209.2	208.2	207.4	206.6	205.9	205.3	204.6	205.3	205.9	206.6
115°	241.4	240.5	239.7	238.9	238.4	237.8	237.2	236.7	237.2	237.8	238.4
117.5°	272.0	271.5	271.2	270.6	269.8	269.2	268.5	267.8	268.5	269.2	269.8
120°	291.6	291.3	291.1	290.5	289.6	288.8	287.9	287.1	287.9	288.8	289.6
122.5°	310.8	310.5	310.1	309.5	308.9	308.1	307.5	306.8	307.5	308.1	308.9
125°	338.0	337.6	337.2	336.7	335.9	335.2	334.4	333.7	334.4	335.2	335.9
127.5°	364.3	363.8	363.4	362.8	362.0	361.3	360.5	359.8	360.5	361.3	362.0
130°	380.4	380.0	379.7	379.1	378.3	377.6	376.8	376.1	376.8	377.6	378.3
132.5°	395.8	395.5	395.1	394.6	393.9	393.1	392.4	391.6	392.4	393.1	393.9
135°	418.9	418.5	418.1	417.6	417.1	416.5	415.9	415.4	415.9	416.5	417.1
137.5°	439.5	439.3	439.0	438.6	437.9	437.2	436.5	435.7	436.5	437.2	437.9
140°	452.5	452.2	451.9	451.6	451.0	450.4	449.9	449.3	449.9	450.4	451.0
142.5°	465.1	464.8	464.5	464.1	463.5	463.0	462.4	461.8	462.4	463.0	463.5
145°	482.8	482.6	482.4	482.0	481.4	480.7	480.0	479.4	480.0	480.7	481.4
147.5°	498.3	498.1	497.9	497.6	497.2	496.7	496.3	495.9	496.3	496.7	497.2
150°	507.7	507.6	507.4	507.2	506.9	506.6	506.3	506.1	506.3	506.6	506.9
152.5°	516.0	515.9	515.9	515.8	515.6	515.5	515.3	515.2	515.3	515.5	515.6
155°	527.4	527.4	527.3	527.4	527.5	527.6	527.8	528.0	527.8	527.6	527.5
157.5°	537.7	537.8	537.9	538.0	538.0	538.0	538.0	538.1	538.0	538.0	538.0
160°	543.5	543.6	543.7	543.8	543.8	543.9	544.0	544.1	544.0	543.9	543.8
162.5°	548.6	548.7	548.7	548.9	549.2	549.4	549.7	549.9	549.7	549.4	549.2
165°	555.3	555.4	555.5	555.7	556.0	556.3	556.6	556.9	556.6	556.3	556.0
167.5°	560.6	560.6	560.6	560.8	561.2	561.6	561.9	562.3	561.9	561.6	561.2
170°	563.6	563.6	563.6	563.8	564.2	564.6	565.0	565.3	565.0	564.6	564.2
172.5°	565.5	565.4	565.3	565.5	566.0	566.5	566.9	567.3	566.9	566.5	566.0
175°	568.1	568.0	567.9	568.1	568.5	569.0	569.5	570.0	569.5	569.0	568.5
177.5°	569.1	569.1	569.0	569.1	569.5	569.9	570.2	570.6	570.2	569.9	569.5
180°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0



TEST NUMBER: P332450-830

CATALOG NUMBER: S123RDIW-S1000D460U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1472.7	1466.0	1461.4	1451.1	1444.5	1437.3	1430.1	1434.7	1434.3	1433.7	1433.7
5°	1423.3	1408.5	1395.2	1377.8	1366.9	1353.4	1343.1	1341.9	1344.4	1335.5	1330.3
7.5°	1374.3	1354.2	1335.1	1316.0	1295.7	1279.5	1269.4	1264.6	1258.1	1252.5	1246.8
10°	1339.9	1316.3	1297.6	1273.8	1252.1	1232.8	1220.7	1212.3	1207.8	1203.3	1195.0
12.5°	1304.6	1281.3	1257.6	1230.8	1210.0	1187.7	1178.6	1169.2	1160.6	1155.6	1144.2
15°	1252.7	1222.6	1197.6	1169.3	1146.2	1124.5	1111.6	1093.0	1090.4	1084.0	1072.5
17.5°	1200.8	1168.0	1133.5	1112.7	1086.6	1063.8	1044.3	1038.1	1019.7	1012.9	1002.8
20°	1159.7	1129.5	1103.2	1075.7	1037.8	1016.6	1001.3	993.0	978.2	969.2	962.8
22.5°	1124.3	1093.6	1063.3	1031.0	999.8	976.1	964.9	951.9	943.8	931.2	924.3
25°	1073.7	1040.4	1003.8	969.2	946.8	928.8	910.9	899.3	887.8	881.9	869.1
27.5°	1015.0	980.1	945.9	919.6	892.1	874.4	858.1	847.8	834.0	824.3	817.2
30°	982.7	941.6	912.1	888.3	853.1	836.4	824.3	811.4	801.2	790.9	783.8
32.5°	945.2	907.8	879.8	850.5	823.3	805.1	789.4	778.1	769.3	759.6	752.5
35°	886.5	855.1	826.1	796.6	776.7	758.2	739.6	729.9	721.6	712.7	706.2
37.5°	833.3	804.0	776.6	748.6	723.9	708.8	693.8	686.5	675.1	669.1	662.6
40°	800.5	771.7	742.2	715.2	689.6	678.0	664.5	653.7	643.4	638.9	631.8
42.5°	764.6	735.7	710.9	681.8	660.8	645.2	632.7	620.8	613.1	606.5	602.6
45°	711.3	685.7	661.3	632.4	612.6	599.1	584.9	574.1	567.0	562.5	555.4
47.5°	659.7	634.0	609.3	584.1	564.9	549.4	535.4	527.7	518.4	512.9	508.1
50°	622.2	599.1	572.8	549.7	530.5	515.1	503.5	493.9	485.6	478.5	475.3
52.5°	587.8	563.2	540.5	519.0	498.6	481.2	470.7	460.5	454.3	446.2	442.4
55°	531.1	507.4	488.1	466.9	447.0	432.3	419.5	410.5	404.1	395.1	390.0
57.5°	477.9	456.6	433.6	415.3	394.7	382.3	371.6	359.5	351.7	344.6	339.6
60°	442.0	417.5	397.7	380.4	362.4	346.4	336.8	327.2	318.8	311.7	307.3
62.5°	404.4	383.2	364.3	345.4	329.0	315.1	303.9	295.9	288.5	284.0	279.6
65°	347.0	330.4	311.1	295.7	280.3	270.0	261.1	254.0	248.8	245.6	241.9
67.5°	294.2	278.0	261.2	246.1	235.8	228.0	222.1	216.0	213.5	209.3	206.8
70°	259.8	243.1	228.4	216.8	206.5	200.8	196.9	192.5	189.8	184.7	182.2
72.5°	222.3	210.3	199.6	190.1	181.9	176.6	171.7	166.3	162.1	156.5	153.9
75°	175.1	164.2	155.9	149.5	144.3	137.2	130.2	124.4	122.5	120.6	120.0
77.5°	129.7	122.8	116.8	111.3	104.9	99.8	98.3	97.0	96.6	95.6	95.6
80°	102.0	95.6	91.0	84.6	80.8	80.8	80.8	79.6	80.2	80.2	80.2
82.5°	75.8	69.9	67.5	65.1	64.4	64.9	64.9	65.1	64.8	65.8	65.3
85°	39.1	39.8	41.1	40.4	41.1	41.1	42.3	41.7	42.3	41.1	42.3
87.5°	15.2	17.0	17.7	18.5	19.2	18.9	19.5	19.6	20.3	20.3	20.4
90°	4.1	5.3	6.5	7.7	9.0	10.2	10.6	10.9	11.3	11.7	12.0
92.5°	6.8	7.2	8.1	9.0	9.9	10.8	11.4	12.1	12.6	13.3	13.6
95°	10.4	9.0	10.0	11.0	12.1	13.1	13.8	14.4	15.1	15.7	16.1
97.5°	45.0	40.7	33.9	27.1	20.5	13.7	14.4	15.2	15.9	16.7	17.1
100°	79.1	72.7	58.1	43.4	28.7	13.9	14.7	15.5	16.2	17.0	17.4
102.5°	99.3	92.0	76.0	59.9	43.9	27.9	25.5	23.2	20.8	18.6	17.4
105°	130.4	126.6	118.1	109.7	101.2	92.7	76.1	59.4	42.8	26.1	17.9
107.5°	163.5	164.7	166.0	167.3	168.6	169.9	157.8	145.5	133.4	121.1	108.8
110°	186.0	186.8	187.8	188.9	189.9	191.0	187.8	184.7	181.6	178.5	170.3



TEST NUMBER: P332450-830

CATALOG NUMBER: S123RDIW-S1000D460U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	207.4	208.2	209.2	210.3	211.3	212.4	212.4	212.4	212.4	212.5	211.1
115°	238.9	239.7	240.5	241.4	242.2	243.1	244.0	245.0	245.9	246.9	247.5
117.5°	270.6	271.2	271.5	272.0	272.5	272.9	273.6	274.4	275.1	275.9	276.3
120°	290.5	291.1	291.3	291.6	291.9	292.2	292.9	293.7	294.5	295.2	295.6
122.5°	309.5	310.1	310.5	310.8	311.1	311.5	312.0	312.5	313.1	313.6	313.9
125°	336.7	337.2	337.6	338.0	338.4	338.7	338.9	339.1	339.3	339.5	339.7
127.5°	362.8	363.4	363.8	364.3	364.8	365.2	365.5	365.8	366.1	366.4	366.5
130°	379.1	379.7	380.0	380.4	380.8	381.1	381.4	381.8	382.2	382.6	382.7
132.5°	394.6	395.1	395.5	395.8	396.1	396.3	396.7	397.1	397.5	397.8	397.9
135°	417.6	418.1	418.5	418.9	419.2	419.6	419.9	420.2	420.5	420.8	420.8
137.5°	438.6	439.0	439.3	439.5	439.7	439.9	440.4	440.8	441.2	441.7	441.9
140°	451.6	451.9	452.2	452.5	452.8	453.1	453.5	453.8	454.2	454.6	454.7
142.5°	464.1	464.5	464.8	465.1	465.3	465.6	465.9	466.3	466.6	466.8	466.8
145°	482.0	482.4	482.6	482.8	483.0	483.1	483.3	483.5	483.7	483.9	484.0
147.5°	497.6	497.9	498.1	498.3	498.5	498.7	498.9	499.1	499.3	499.5	499.3
150°	507.2	507.4	507.6	507.7	507.9	508.1	508.3	508.5	508.7	508.9	508.9
152.5°	515.8	515.9	515.9	516.0	516.1	516.3	516.6	517.0	517.3	517.6	517.6
155°	527.4	527.3	527.4	527.4	527.5	527.6	528.1	528.6	529.0	529.5	529.4
157.5°	538.0	537.9	537.8	537.7	537.6	537.5	538.1	538.7	539.2	539.8	539.7
160°	543.8	543.7	543.6	543.5	543.4	543.3	543.8	544.4	545.0	545.5	545.5
162.5°	548.9	548.7	548.7	548.6	548.5	548.4	549.0	549.7	550.4	550.9	551.0
165°	555.7	555.5	555.4	555.3	555.3	555.2	555.9	556.7	557.4	558.2	558.2
167.5°	560.8	560.6	560.6	560.6	560.6	560.6	561.4	562.1	562.8	563.5	563.5
170°	563.8	563.6	563.6	563.6	563.6	563.6	564.4	565.1	565.9	566.7	566.7
172.5°	565.5	565.3	565.4	565.5	565.6	565.6	566.4	567.1	567.9	568.6	568.6
175°	568.1	567.9	568.0	568.1	568.2	568.3	568.9	569.6	570.2	570.9	570.9
177.5°	569.1	569.0	569.1	569.1	569.2	569.3	569.9	570.5	571.1	571.7	571.7
180°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0



TEST NUMBER: P332450-830

CATALOG NUMBER: S123RDIW-S1000D460U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1427.6	1427.0	1427.6	1425.5	1427.6	1427.0	1427.6	1433.7	1433.7	1434.3	1434.7
5°	1328.4	1327.8	1325.9	1320.0	1325.9	1327.8	1328.4	1330.3	1335.5	1344.4	1341.9
7.5°	1241.8	1241.0	1235.3	1235.4	1235.3	1241.0	1241.8	1246.8	1252.5	1258.1	1264.6
10°	1190.5	1191.1	1183.5	1178.9	1183.5	1191.1	1190.5	1195.0	1203.3	1207.8	1212.3
12.5°	1140.8	1137.7	1131.6	1126.6	1131.6	1137.7	1140.8	1144.2	1155.6	1160.6	1169.2
15°	1075.1	1068.7	1053.2	1054.5	1053.2	1068.7	1075.1	1072.5	1084.0	1090.4	1093.0
17.5°	997.7	993.0	992.7	983.7	992.7	993.0	997.7	1002.8	1012.9	1019.7	1038.1
20°	952.5	949.3	950.6	941.6	950.6	949.3	952.5	962.8	969.2	978.2	993.0
22.5°	917.1	913.9	908.5	905.7	908.5	913.9	917.1	924.3	931.2	943.8	951.9
25°	865.3	860.2	855.1	858.3	855.1	860.2	865.3	869.1	881.9	887.8	899.3
27.5°	813.5	809.6	804.5	803.8	804.5	809.6	813.5	817.2	824.3	834.0	847.8
30°	780.6	776.7	774.2	771.0	774.2	776.7	780.6	783.8	790.9	801.2	811.4
32.5°	747.2	746.5	741.9	741.2	741.9	746.5	747.2	752.5	759.6	769.3	778.1
35°	703.6	699.8	698.5	699.2	698.5	699.8	703.6	706.2	712.7	721.6	729.9
37.5°	662.2	657.0	654.8	652.4	654.8	657.0	662.2	662.6	669.1	675.1	686.5
40°	632.4	627.4	626.0	624.7	626.0	627.4	632.4	631.8	638.9	643.4	653.7
42.5°	599.1	597.0	596.3	594.0	596.3	597.0	599.1	602.6	606.5	613.1	620.8
45°	553.6	552.9	549.0	550.4	549.0	552.9	553.6	555.4	562.5	567.0	574.1
47.5°	505.6	502.8	500.0	501.8	500.0	502.8	505.6	508.1	512.9	518.4	527.7
50°	472.8	471.5	465.7	466.9	465.7	471.5	472.8	475.3	478.5	485.6	493.9
52.5°	439.9	435.0	432.8	432.1	432.8	435.0	439.9	442.4	446.2	454.3	460.5
55°	385.5	379.8	377.2	375.9	377.2	379.8	385.5	390.0	395.1	404.1	410.5
57.5°	332.2	330.5	328.6	330.0	328.6	330.5	332.2	339.6	344.6	351.7	359.5
60°	300.9	300.9	300.9	300.2	300.9	300.9	300.9	307.3	311.7	318.8	327.2
62.5°	276.7	275.1	274.7	275.6	274.7	275.1	276.7	279.6	284.0	288.5	295.9
65°	239.9	239.2	236.7	236.0	236.7	239.2	239.9	241.9	245.6	248.8	254.0
67.5°	205.1	202.8	202.1	201.1	202.1	202.8	205.1	206.8	209.3	213.5	216.0
70°	179.0	177.7	173.8	174.5	173.8	177.7	179.0	182.2	184.7	189.8	192.5
72.5°	150.7	149.5	148.6	147.8	148.6	149.5	150.7	153.9	156.5	162.1	166.3
75°	119.3	118.7	118.0	120.6	118.0	118.7	119.3	120.0	120.6	122.5	124.4
77.5°	95.6	95.6	96.0	94.9	96.0	95.6	95.6	95.6	95.6	96.6	97.0
80°	80.2	80.2	79.6	79.6	79.6	80.2	80.2	80.2	80.2	80.2	79.6
82.5°	64.3	64.8	65.1	64.2	65.1	64.8	64.3	65.3	65.8	64.8	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.1	42.3	41.7
87.5°	21.4	20.5	20.5	21.0	20.5	20.5	21.4	20.4	20.3	20.3	19.6
90°	12.2	12.3	12.5	12.7	12.5	12.3	12.2	12.0	11.7	11.3	10.9
92.5°	13.8	13.9	13.9	14.0	13.9	13.9	13.8	13.6	13.3	12.6	12.1
95°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	15.7	15.1	14.4
97.5°	17.2	17.2	17.3	17.4	17.3	17.2	17.2	17.1	16.7	15.9	15.2
100°	17.5	17.6	17.7	17.8	17.7	17.6	17.5	17.4	17.0	16.2	15.5
102.5°	17.6	17.8	17.9	18.1	17.9	17.8	17.6	17.4	18.6	20.8	23.2
105°	18.1	18.3	18.5	18.7	18.5	18.3	18.1	17.9	26.1	42.8	59.4
107.5°	96.1	83.6	71.1	58.5	71.1	83.6	96.1	108.8	121.1	133.4	145.5
110°	156.8	143.4	129.9	116.5	129.9	143.4	156.8	170.3	178.5	181.6	184.7



TEST NUMBER: P332450-830

CATALOG NUMBER: S123RDIW-S1000D460U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	208.3	205.5	202.6	199.8	202.6	205.5	208.3	211.1	212.5	212.4	212.4
115°	247.9	248.3	248.6	249.0	248.6	248.3	247.9	247.5	246.9	245.9	245.0
117.5°	276.4	276.4	276.5	276.6	276.5	276.4	276.4	276.3	275.9	275.1	274.4
120°	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.2	294.5	293.7
122.5°	314.0	314.1	314.1	314.2	314.1	314.1	314.0	313.9	313.6	313.1	312.5
125°	339.9	340.1	340.3	340.4	340.3	340.1	339.9	339.7	339.5	339.3	339.1
127.5°	366.3	366.1	365.9	365.7	365.9	366.1	366.3	366.5	366.4	366.1	365.8
130°	382.5	382.3	382.1	381.9	382.1	382.3	382.5	382.7	382.6	382.2	381.8
132.5°	397.7	397.4	397.1	396.9	397.1	397.4	397.7	397.9	397.8	397.5	397.1
135°	420.5	420.2	419.9	419.6	419.9	420.2	420.5	420.8	420.8	420.5	420.2
137.5°	441.7	441.5	441.3	441.1	441.3	441.5	441.7	441.9	441.7	441.2	440.8
140°	454.5	454.3	454.1	453.9	454.1	454.3	454.5	454.7	454.6	454.2	453.8
142.5°	466.6	466.4	466.1	465.8	466.1	466.4	466.6	466.8	466.8	466.6	466.3
145°	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	483.9	483.7	483.5
147.5°	498.9	498.4	498.0	497.6	498.0	498.4	498.9	499.3	499.5	499.3	499.1
150°	508.6	508.3	508.0	507.7	508.0	508.3	508.6	508.9	508.9	508.7	508.5
152.5°	517.2	516.7	516.3	515.9	516.3	516.7	517.2	517.6	517.6	517.3	517.0
155°	528.9	528.3	527.7	527.3	527.7	528.3	528.9	529.4	529.5	529.0	528.6
157.5°	538.9	538.3	537.5	536.8	537.5	538.3	538.9	539.7	539.8	539.2	538.7
160°	544.9	544.2	543.6	542.9	543.6	544.2	544.9	545.5	545.5	545.0	544.4
162.5°	550.4	549.8	549.2	548.7	549.2	549.8	550.4	551.0	550.9	550.4	549.7
165°	557.5	556.9	556.3	555.6	556.3	556.9	557.5	558.2	558.2	557.4	556.7
167.5°	562.8	562.1	561.4	560.6	561.4	562.1	562.8	563.5	563.5	562.8	562.1
170°	565.9	565.1	564.4	563.6	564.4	565.1	565.9	566.7	566.7	565.9	565.1
172.5°	567.8	566.9	566.2	565.3	566.2	566.9	567.8	568.6	568.6	567.9	567.1
175°	570.1	569.4	568.6	567.9	568.6	569.4	570.1	570.9	570.9	570.2	569.6
177.5°	570.9	570.1	569.4	568.6	569.4	570.1	570.9	571.7	571.7	571.1	570.5
180°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0



TEST NUMBER: P332450-830

CATALOG NUMBER: S123RDIW-S1000D460U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1430.1	1437.3	1444.5	1451.1	1461.4	1466.0	1472.7	1475.3	1483.0	1494.3	1503.5
5°	1343.1	1353.4	1366.9	1377.8	1395.2	1408.5	1423.3	1437.5	1454.2	1477.8	1499.0
7.5°	1269.4	1279.5	1295.7	1316.0	1335.1	1354.2	1374.3	1393.5	1417.4	1451.4	1485.2
10°	1220.7	1232.8	1252.1	1273.8	1297.6	1316.3	1339.9	1364.3	1393.8	1432.9	1473.4
12.5°	1178.6	1187.7	1210.0	1230.8	1257.6	1281.3	1304.6	1333.0	1366.6	1408.3	1457.0
15°	1111.6	1124.5	1146.2	1169.3	1197.6	1222.6	1252.7	1287.3	1320.0	1371.4	1430.4
17.5°	1044.3	1063.8	1086.6	1112.7	1133.5	1168.0	1200.8	1236.3	1276.6	1331.0	1395.7
20°	1001.3	1016.6	1037.8	1075.7	1103.2	1129.5	1159.7	1204.0	1241.1	1302.8	1370.1
22.5°	964.9	976.1	999.8	1031.0	1063.3	1093.6	1124.3	1166.5	1212.4	1270.9	1344.0
25°	910.9	928.8	946.8	969.2	1003.8	1040.4	1073.7	1109.7	1158.4	1220.7	1299.6
27.5°	858.1	874.4	892.1	919.6	945.9	980.1	1015.0	1056.2	1108.5	1174.3	1254.3
30°	824.3	836.4	853.1	888.3	912.1	941.6	982.7	1019.3	1068.0	1137.9	1222.6
32.5°	789.4	805.1	823.3	850.5	879.8	907.8	945.2	984.9	1034.6	1103.5	1190.2
35°	739.6	758.2	776.7	796.6	826.1	855.1	886.5	930.1	980.7	1047.4	1132.7
37.5°	693.8	708.8	723.9	748.6	776.6	804.0	833.3	876.3	924.1	996.0	1074.3
40°	664.5	678.0	689.6	715.2	742.2	771.7	800.5	838.4	889.7	957.1	1032.7
42.5°	632.7	645.2	660.8	681.8	710.9	735.7	764.6	800.4	848.6	917.0	983.4
45°	584.9	599.1	612.6	632.4	661.3	685.7	711.3	745.4	794.8	851.2	910.2
47.5°	535.4	549.4	564.9	584.1	609.3	634.0	659.7	689.8	734.8	790.2	830.0
50°	503.5	515.1	530.5	549.7	572.8	599.1	622.2	654.9	697.9	741.5	776.1
52.5°	470.7	481.2	498.6	519.0	540.5	563.2	587.8	615.9	654.8	695.8	723.3
55°	419.5	432.3	447.0	466.9	488.1	507.4	531.1	560.0	590.8	621.5	640.2
57.5°	371.6	382.3	394.7	415.3	433.6	456.6	477.9	500.3	528.8	552.0	564.2
60°	336.8	346.4	362.4	380.4	397.7	417.5	442.0	464.4	486.2	504.8	514.4
62.5°	303.9	315.1	329.0	345.4	364.3	383.2	404.4	423.4	442.6	458.6	465.1
65°	261.1	270.0	280.3	295.7	311.1	330.4	347.0	366.3	380.4	389.4	395.1
67.5°	222.1	228.0	235.8	246.1	261.2	278.0	294.2	309.2	320.9	327.2	332.2
70°	196.9	200.8	206.5	216.8	228.4	243.1	259.8	270.7	281.0	286.1	291.2
72.5°	171.7	176.6	181.9	190.1	199.6	210.3	222.3	235.8	241.5	247.6	250.7
75°	130.2	137.2	144.3	149.5	155.9	164.2	175.1	183.4	186.6	191.8	192.5
77.5°	98.3	99.8	104.9	111.3	116.8	122.8	129.7	137.1	138.6	141.4	143.1
80°	80.8	80.8	80.8	84.6	91.0	95.6	102.0	105.8	108.4	109.1	109.7
82.5°	64.9	64.9	64.4	65.1	67.5	69.9	75.8	80.2	82.2	81.8	80.4
85°	42.3	41.1	41.1	40.4	41.1	39.8	39.1	41.7	45.5	45.5	44.3
87.5°	19.5	18.9	19.2	18.5	17.7	17.0	15.2	15.6	15.4	17.2	16.5
90°	10.6	10.2	9.0	7.7	6.5	5.3	4.1	3.2	2.3	1.3	0.4
92.5°	11.4	10.8	9.9	9.0	8.1	7.2	6.8	7.1	7.4	7.6	7.9
95°	13.8	13.1	12.1	11.0	10.0	9.0	10.4	14.2	18.1	22.0	25.8
97.5°	14.4	13.7	20.5	27.1	33.9	40.7	45.0	46.8	48.4	50.1	51.9
100°	14.7	13.9	28.7	43.4	58.1	72.7	79.1	77.2	75.3	73.4	71.5
102.5°	25.5	27.9	43.9	59.9	76.0	92.0	99.3	98.0	96.6	95.3	93.9
105°	76.1	92.7	101.2	109.7	118.1	126.6	130.4	129.3	128.3	127.2	126.2
107.5°	157.8	169.9	168.6	167.3	166.0	164.7	163.5	162.7	161.9	161.1	160.2
110°	187.8	191.0	189.9	188.9	187.8	186.8	186.0	185.2	184.5	183.7	182.9



TEST NUMBER: P332450-830

CATALOG NUMBER: S123RDIW-S1000D460U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	212.4	212.4	211.3	210.3	209.2	208.2	207.4	206.6	205.9	205.3	204.6
115°	244.0	243.1	242.2	241.4	240.5	239.7	238.9	238.4	237.8	237.2	236.7
117.5°	273.6	272.9	272.5	272.0	271.5	271.2	270.6	269.8	269.2	268.5	267.8
120°	292.9	292.2	291.9	291.6	291.3	291.1	290.5	289.6	288.8	287.9	287.1
122.5°	312.0	311.5	311.1	310.8	310.5	310.1	309.5	308.9	308.1	307.5	306.8
125°	338.9	338.7	338.4	338.0	337.6	337.2	336.7	335.9	335.2	334.4	333.7
127.5°	365.5	365.2	364.8	364.3	363.8	363.4	362.8	362.0	361.3	360.5	359.8
130°	381.4	381.1	380.8	380.4	380.0	379.7	379.1	378.3	377.6	376.8	376.1
132.5°	396.7	396.3	396.1	395.8	395.5	395.1	394.6	393.9	393.1	392.4	391.6
135°	419.9	419.6	419.2	418.9	418.5	418.1	417.6	417.1	416.5	415.9	415.4
137.5°	440.4	439.9	439.7	439.5	439.3	439.0	438.6	437.9	437.2	436.5	435.7
140°	453.5	453.1	452.8	452.5	452.2	451.9	451.6	451.0	450.4	449.9	449.3
142.5°	465.9	465.6	465.3	465.1	464.8	464.5	464.1	463.5	463.0	462.4	461.8
145°	483.3	483.1	483.0	482.8	482.6	482.4	482.0	481.4	480.7	480.0	479.4
147.5°	498.9	498.7	498.5	498.3	498.1	497.9	497.6	497.2	496.7	496.3	495.9
150°	508.3	508.1	507.9	507.7	507.6	507.4	507.2	506.9	506.6	506.3	506.1
152.5°	516.6	516.3	516.1	516.0	515.9	515.9	515.8	515.6	515.5	515.3	515.2
155°	528.1	527.6	527.5	527.4	527.4	527.3	527.4	527.5	527.6	527.8	528.0
157.5°	538.1	537.5	537.6	537.7	537.8	537.9	538.0	538.0	538.0	538.0	538.1
160°	543.8	543.3	543.4	543.5	543.6	543.7	543.8	543.8	543.9	544.0	544.1
162.5°	549.0	548.4	548.5	548.6	548.7	548.7	548.9	549.2	549.4	549.7	549.9
165°	555.9	555.2	555.3	555.3	555.4	555.5	555.7	556.0	556.3	556.6	556.9
167.5°	561.4	560.6	560.6	560.6	560.6	560.6	560.8	561.2	561.6	561.9	562.3
170°	564.4	563.6	563.6	563.6	563.6	563.6	563.8	564.2	564.6	565.0	565.3
172.5°	566.4	565.6	565.6	565.5	565.4	565.3	565.5	566.0	566.5	566.9	567.3
175°	568.9	568.3	568.2	568.1	568.0	567.9	568.1	568.5	569.0	569.5	570.0
177.5°	569.9	569.3	569.2	569.1	569.1	569.0	569.1	569.5	569.9	570.2	570.6
180°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0



TEST NUMBER: P332450-830

CATALOG NUMBER: S123RDIW-S1000D460U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1506.6	1512.2	1519.4	1530.2	1538.4	1545.6	1547.1	1549.2	1554.3	1563.0	1569.7
5°	1516.4	1531.1	1554.8	1577.9	1603.0	1623.4	1642.7	1656.1	1669.0	1695.9	1717.8
7.5°	1513.3	1546.1	1583.3	1624.8	1666.7	1707.3	1745.1	1778.9	1812.4	1851.7	1896.5
10°	1511.2	1549.7	1599.7	1652.9	1711.4	1768.4	1823.6	1866.6	1916.6	1961.5	2018.5
12.5°	1501.5	1556.9	1616.6	1684.8	1756.5	1822.3	1894.9	1954.3	2011.6	2076.4	2142.8
15°	1488.7	1556.1	1631.8	1722.2	1831.3	1910.8	1985.2	2088.5	2159.1	2229.6	2324.6
17.5°	1465.6	1547.7	1642.3	1759.8	1850.8	1957.7	2069.6	2151.3	2246.3	2345.7	2431.7
20°	1447.1	1542.7	1648.5	1764.0	1880.0	1996.1	2104.5	2202.1	2300.2	2415.0	2485.6
22.5°	1428.6	1523.1	1633.0	1755.8	1880.6	2002.8	2125.5	2240.0	2350.4	2466.3	2556.4
25°	1389.3	1501.6	1620.9	1746.0	1869.2	2003.8	2150.0	2277.7	2414.3	2533.6	2618.9
27.5°	1349.5	1452.5	1571.2	1698.1	1835.0	1994.2	2166.2	2311.3	2448.3	2533.6	2560.5
30°	1313.6	1422.7	1531.7	1660.7	1808.8	1986.5	2169.4	2335.4	2447.7	2484.9	2457.3
32.5°	1277.2	1376.0	1484.0	1616.0	1773.4	1967.6	2173.4	2321.1	2388.7	2360.2	2248.0
35°	1213.0	1302.1	1406.7	1538.8	1719.7	1957.0	2156.5	2256.5	2239.9	2079.5	1867.8
37.5°	1144.2	1216.8	1313.6	1451.8	1664.0	1915.3	2083.6	2098.4	1954.1	1707.9	1463.4
40°	1089.8	1155.2	1254.6	1398.9	1620.9	1874.2	2010.3	1950.6	1726.7	1452.8	1248.9
42.5°	1036.9	1092.1	1187.9	1343.5	1579.9	1818.4	1900.9	1771.0	1512.8	1253.8	1068.3
45°	947.3	999.4	1095.5	1255.3	1495.8	1711.4	1700.4	1474.6	1216.2	1007.7	853.8
47.5°	862.4	907.9	998.2	1161.2	1397.1	1551.0	1449.0	1208.7	989.5	822.2	712.4
50°	802.4	847.3	937.2	1098.2	1318.1	1430.4	1284.8	1053.2	852.4	713.9	626.7
52.5°	745.0	788.8	870.9	1027.8	1222.7	1289.8	1133.4	918.8	751.4	631.8	556.9
55°	664.5	697.9	771.7	921.7	1067.3	1082.7	924.3	744.7	606.8	523.4	472.1
57.5°	582.6	611.2	684.2	803.7	905.8	897.9	747.6	592.3	499.5	437.4	400.3
60°	529.1	557.4	621.5	724.2	801.2	774.2	636.3	511.2	431.7	386.2	356.7
62.5°	479.4	501.4	561.5	636.4	691.8	661.3	543.9	440.5	377.3	338.9	315.6
65°	407.3	425.3	473.3	512.5	543.3	513.8	416.3	344.4	298.9	271.9	255.9
67.5°	338.8	350.2	380.6	394.7	416.4	384.1	313.0	264.9	239.0	216.3	205.1
70°	295.7	304.1	320.1	331.6	337.4	304.1	251.5	216.1	194.4	178.3	171.3
72.5°	252.6	260.0	263.2	272.6	269.7	238.4	202.2	174.1	158.4	147.5	138.5
75°	193.0	196.2	193.0	189.3	180.9	159.1	134.0	120.0	108.4	103.3	100.1
77.5°	140.7	139.7	135.3	129.3	115.1	101.3	87.8	83.1	78.1	75.4	74.3
80°	108.4	105.8	102.0	92.4	80.2	70.6	67.4	64.2	62.2	59.0	58.3
82.5°	80.7	79.2	72.8	64.7	56.1	51.6	48.9	47.7	45.8	44.1	44.0
85°	43.0	41.1	34.0	29.5	28.2	27.0	26.3	26.3	23.8	23.1	23.1
87.5°	14.1	11.2	10.9	9.5	9.8	9.0	9.7	9.0	8.7	9.3	8.3
90°	1.3	2.3	3.2	4.1	5.3	6.5	7.7	9.0	10.2	10.6	10.9
92.5°	7.6	7.4	7.1	6.8	7.2	8.1	9.0	9.9	10.8	11.4	12.1
95°	22.0	18.1	14.2	10.4	9.0	10.0	11.0	12.1	13.1	13.8	14.4
97.5°	50.1	48.4	46.8	45.0	40.7	33.9	27.1	20.5	13.7	14.4	15.2
100°	73.4	75.3	77.2	79.1	72.7	58.1	43.4	28.7	13.9	14.7	15.5
102.5°	95.3	96.6	98.0	99.3	92.0	76.0	59.9	43.9	27.9	25.5	23.2
105°	127.2	128.3	129.3	130.4	126.6	118.1	109.7	101.2	92.7	76.1	59.4
107.5°	161.1	161.9	162.7	163.5	164.7	166.0	167.3	168.6	169.9	157.8	145.5
110°	183.7	184.5	185.2	186.0	186.8	187.8	188.9	189.9	191.0	187.8	184.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	205.3	205.9	206.6	207.4	208.2	209.2	210.3	211.3	212.4	212.4	212.4
115°	237.2	237.8	238.4	238.9	239.7	240.5	241.4	242.2	243.1	244.0	245.0
117.5°	268.5	269.2	269.8	270.6	271.2	271.5	272.0	272.5	272.9	273.6	274.4
120°	287.9	288.8	289.6	290.5	291.1	291.3	291.6	291.9	292.2	292.9	293.7
122.5°	307.5	308.1	308.9	309.5	310.1	310.5	310.8	311.1	311.5	312.0	312.5
125°	334.4	335.2	335.9	336.7	337.2	337.6	338.0	338.4	338.7	338.9	339.1
127.5°	360.5	361.3	362.0	362.8	363.4	363.8	364.3	364.8	365.2	365.5	365.8
130°	376.8	377.6	378.3	379.1	379.7	380.0	380.4	380.8	381.1	381.4	381.8
132.5°	392.4	393.1	393.9	394.6	395.1	395.5	395.8	396.1	396.3	396.7	397.1
135°	415.9	416.5	417.1	417.6	418.1	418.5	418.9	419.2	419.6	419.9	420.2
137.5°	436.5	437.2	437.9	438.6	439.0	439.3	439.5	439.7	439.9	440.4	440.8
140°	449.9	450.4	451.0	451.6	451.9	452.2	452.5	452.8	453.1	453.5	453.8
142.5°	462.4	463.0	463.5	464.1	464.5	464.8	465.1	465.3	465.6	465.9	466.3
145°	480.0	480.7	481.4	482.0	482.4	482.6	482.8	483.0	483.1	483.3	483.5
147.5°	496.3	496.7	497.2	497.6	497.9	498.1	498.3	498.5	498.7	498.9	499.1
150°	506.3	506.6	506.9	507.2	507.4	507.6	507.7	507.9	508.1	508.3	508.5
152.5°	515.3	515.5	515.6	515.8	515.9	515.9	516.0	516.1	516.3	516.6	517.0
155°	527.8	527.6	527.5	527.4	527.3	527.4	527.4	527.5	527.6	528.1	528.6
157.5°	538.0	538.0	538.0	538.0	537.9	537.8	537.7	537.6	537.5	538.1	538.7
160°	544.0	543.9	543.8	543.8	543.7	543.6	543.5	543.4	543.3	543.8	544.4
162.5°	549.7	549.4	549.2	548.9	548.7	548.7	548.6	548.5	548.4	549.0	549.7
165°	556.6	556.3	556.0	555.7	555.5	555.4	555.3	555.3	555.2	555.9	556.7
167.5°	561.9	561.6	561.2	560.8	560.6	560.6	560.6	560.6	560.6	561.4	562.1
170°	565.0	564.6	564.2	563.8	563.6	563.6	563.6	563.6	563.6	564.4	565.1
172.5°	566.9	566.5	566.0	565.5	565.3	565.4	565.5	565.6	565.6	566.4	567.1
175°	569.5	569.0	568.5	568.1	567.9	568.0	568.1	568.2	568.3	568.9	569.6
177.5°	570.2	569.9	569.5	569.1	569.0	569.1	569.1	569.2	569.3	569.9	570.5
180°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1580.5	1580.5	1582.5	1590.3	1591.3	1597.9	1595.9
5°	1737.0	1749.2	1753.7	1772.9	1784.4	1789.6	1779.3
7.5°	1928.4	1962.8	1979.1	1999.2	2017.0	2022.4	2008.5
10°	2067.9	2103.8	2134.0	2152.7	2169.9	2181.5	2196.2
12.5°	2202.9	2247.0	2275.7	2302.0	2319.8	2334.4	2336.8
15°	2349.6	2416.3	2466.9	2504.1	2522.7	2532.3	2528.6
17.5°	2497.5	2559.3	2595.4	2633.4	2659.1	2660.4	2661.2
20°	2581.2	2641.4	2683.1	2711.3	2740.2	2738.9	2745.3
22.5°	2637.0	2684.5	2716.5	2737.0	2746.9	2742.0	2743.3
25°	2663.2	2677.3	2671.5	2638.8	2630.5	2600.4	2605.5
27.5°	2528.3	2461.5	2392.6	2303.8	2233.7	2177.7	2180.6
30°	2345.0	2227.0	2092.4	1979.4	1878.1	1849.9	1789.6
32.5°	2089.1	1911.9	1754.2	1649.0	1562.0	1538.4	1485.8
35°	1654.9	1483.0	1320.7	1223.2	1184.7	1130.9	1130.2
37.5°	1286.3	1134.9	1049.1	976.0	937.6	905.0	901.8
40°	1082.1	964.0	899.3	846.7	808.9	784.5	778.7
42.5°	939.4	844.0	783.3	750.7	721.6	709.1	699.6
45°	767.1	703.0	660.6	631.1	617.7	608.0	602.9
47.5°	641.7	598.7	569.9	550.3	539.3	529.1	531.9
50°	573.4	538.2	517.0	498.4	490.0	483.0	483.6
52.5°	518.5	486.8	469.8	456.3	445.9	440.9	438.5
55°	440.0	420.1	402.8	393.2	387.4	380.4	378.4
57.5°	375.3	360.0	345.8	335.0	333.6	326.8	327.6
60°	332.2	319.4	307.9	302.1	297.7	291.8	293.8
62.5°	296.9	286.1	275.6	270.8	266.4	262.1	263.0
65°	243.1	232.8	226.4	223.9	222.0	220.0	218.1
67.5°	193.7	187.5	183.4	178.0	174.0	173.3	171.4
70°	163.0	154.6	147.5	140.4	138.6	137.9	138.6
72.5°	130.6	125.4	123.4	120.0	119.6	117.9	119.0
75°	98.1	96.2	94.9	92.4	92.4	92.4	92.4
77.5°	72.4	71.2	70.4	69.9	69.3	68.3	68.2
80°	56.5	55.8	54.5	54.5	53.9	54.5	53.9
82.5°	42.6	42.5	41.2	41.2	40.5	40.2	40.5
85°	21.8	21.2	22.4	21.2	21.8	20.5	21.8
87.5°	8.4	8.5	8.0	8.1	7.6	8.7	7.6
90°	11.3	11.7	12.0	12.2	12.3	12.5	12.7
92.5°	12.6	13.3	13.6	13.8	13.9	13.9	14.0
95°	15.1	15.7	16.1	16.1	16.1	16.1	16.1
97.5°	15.9	16.7	17.1	17.2	17.2	17.3	17.4
100°	16.2	17.0	17.4	17.5	17.6	17.7	17.8
102.5°	20.8	18.6	17.4	17.6	17.8	17.9	18.1
105°	42.8	26.1	17.9	18.1	18.3	18.5	18.7
107.5°	133.4	121.1	108.8	96.1	83.6	71.1	58.5
110°	181.6	178.5	170.3	156.8	143.4	129.9	116.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	212.4	212.5	211.1	208.3	205.5	202.6	199.8
115°	245.9	246.9	247.5	247.9	248.3	248.6	249.0
117.5°	275.1	275.9	276.3	276.4	276.4	276.5	276.6
120°	294.5	295.2	295.6	295.6	295.6	295.6	295.6
122.5°	313.1	313.6	313.9	314.0	314.1	314.1	314.2
125°	339.3	339.5	339.7	339.9	340.1	340.3	340.4
127.5°	366.1	366.4	366.5	366.3	366.1	365.9	365.7
130°	382.2	382.6	382.7	382.5	382.3	382.1	381.9
132.5°	397.5	397.8	397.9	397.7	397.4	397.1	396.9
135°	420.5	420.8	420.8	420.5	420.2	419.9	419.6
137.5°	441.2	441.7	441.9	441.7	441.5	441.3	441.1
140°	454.2	454.6	454.7	454.5	454.3	454.1	453.9
142.5°	466.6	466.8	466.8	466.6	466.4	466.1	465.8
145°	483.7	483.9	484.0	484.0	484.0	484.0	484.0
147.5°	499.3	499.5	499.3	498.9	498.4	498.0	497.6
150°	508.7	508.9	508.9	508.6	508.3	508.0	507.7
152.5°	517.3	517.6	517.6	517.2	516.7	516.3	515.9
155°	529.0	529.5	529.4	528.9	528.3	527.7	527.3
157.5°	539.2	539.8	539.7	538.9	538.3	537.5	536.8
160°	545.0	545.5	545.5	544.9	544.2	543.6	542.9
162.5°	550.4	550.9	551.0	550.4	549.8	549.2	548.7
165°	557.4	558.2	558.2	557.5	556.9	556.3	555.6
167.5°	562.8	563.5	563.5	562.8	562.1	561.4	560.6
170°	565.9	566.7	566.7	565.9	565.1	564.4	563.6
172.5°	567.9	568.6	568.6	567.8	566.9	566.2	565.3
175°	570.2	570.9	570.9	570.1	569.4	568.6	567.9
177.5°	571.1	571.7	571.7	570.9	570.1	569.4	568.6
180°	570.0	570.0	570.0	570.0	570.0	570.0	570.0

(END OF REPORT)