

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: P331845-830

Luminaire Tested: **S122RDIW-S1005D435U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331845-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S1005D435U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5225.4 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

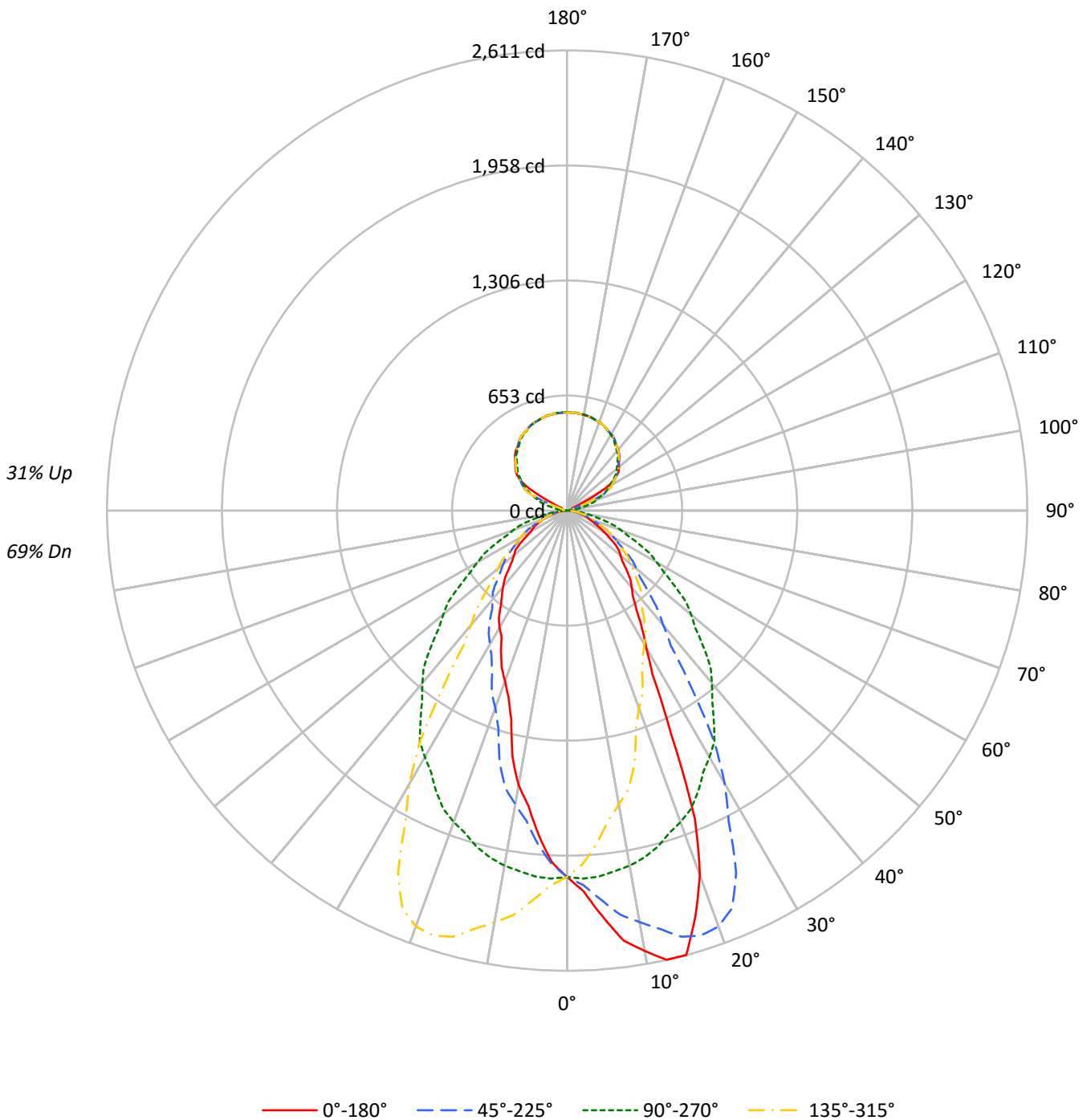
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	69
1	103	99	95	92	97	94	91	88	84	82	79	75	73	71	67	65	64	60
2	95	88	82	77	89	83	78	74	75	71	68	67	64	61	60	58	56	52
3	87	78	71	66	82	74	68	63	67	62	58	60	57	53	54	51	49	46
4	81	70	63	57	76	67	60	55	61	55	51	55	50	47	49	46	43	40
5	75	63	56	50	70	60	53	48	55	49	45	50	45	42	45	41	38	36
6	69	58	50	44	65	55	48	43	50	44	40	46	41	37	41	38	35	32
7	64	53	45	39	61	50	43	38	46	40	36	42	37	34	38	34	31	29
8	60	48	41	35	57	46	39	34	42	37	32	39	34	31	36	32	29	26
9	56	44	37	32	53	43	36	31	39	34	30	36	31	28	33	29	26	24
10	53	41	34	29	50	40	33	29	37	31	27	34	29	26	31	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	33562	33562	33562	33562
5°	37483	33773	29945	33773
10°	41589	33536	25956	33536
15°	43632	33045	20451	33045
20°	37826	32316	17698	32316
25°	24807	31319	15800	31319
30°	16697	30109	14300	30109
35°	13525	28586	12899	28586
40°	12026	26930	11936	26930
45°	10885	24987	10654	24987
50°	9907	23059	9869	23059
55°	9312	20921	9191	20921
60°	7789	18962	7698	18962
65°	6567	17219	7450	17219
70°	6071	15375	7024	15375
75°	5677	13381	6488	13381
80°	5244	11018	5774	11018
85°	4817	8688	5076	8688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	3.8
10°-20°	549.1	10.5
20°-30°	707.5	13.5
30°-40°	672.4	12.9
40°-50°	576.0	11.0
50°-60°	438.6	8.4
60°-70°	277.3	5.3
70°-80°	138.5	2.6
80°-90°	37.4	0.7
90°-100°	18.6	0.4
100°-110°	68.1	1.3
110°-120°	182.0	3.5
120°-130°	300.5	5.8
130°-140°	319.6	6.1
140°-150°	297.0	5.7
150°-160°	238.8	4.6
160°-170°	153.9	2.9
170°-180°	53.0	1.0
0°-30°	1453.7	27.8
0°-40°	2126.0	40.7
0°-60°	3140.7	60.1
0°-90°	3593.9	68.8
90°-120°	268.7	5.1
90°-150°	1185.9	22.7
90°-180°	1632.0	31.2
0°-180°	5225.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2079	2079	2079	2079	2079	
5°	2313	2084	1848	2084	2313	228
15°	2610	1977	1224	1977	2610	704
25°	1392	1758	887	1758	1392	661
35°	686	1450	654	1450	686	439
45°	477	1094	467	1094	477	369
55°	331	743	326	743	331	290
65°	172	451	195	451	172	175
75°	91	214	104	214	91	97
85°	26	47	27	47	26	28
90°	11	0	11	0	11	6
95°	17	26	17	26	17	16
105°	31	122	31	122	31	32
115°	33	232	33	232	33	83
125°	344	328	344	328	344	298
135°	419	405	419	405	419	323
145°	477	470	477	470	477	299
155°	518	518	518	518	518	239
165°	544	545	544	545	544	154
175°	555	558	555	558	555	53
180°	557	557	557	557	557	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2163.0	2164.8	2166.5	2162.5	2162.5	2159.0	2151.5	2145.7	2129.6	2127.2	2127.2
5°	2312.7	2311.3	2314.1	2304.8	2291.8	2288.9	2275.2	2257.1	2238.4	2217.4	2213.1
7.5°	2461.5	2459.4	2453.5	2452.0	2442.0	2420.2	2398.1	2374.5	2343.3	2312.9	2297.5
10°	2536.7	2560.5	2546.0	2520.7	2525.8	2491.9	2473.8	2442.8	2416.8	2371.2	2361.2
12.5°	2610.6	2620.0	2615.4	2601.0	2594.5	2571.0	2546.6	2519.6	2471.6	2430.7	2395.2
15°	2610.3	2624.0	2627.6	2623.3	2627.0	2625.5	2612.4	2590.1	2548.2	2503.4	2464.4
17.5°	2417.6	2427.1	2450.8	2466.8	2487.1	2529.9	2550.9	2559.2	2553.0	2527.4	2499.9
20°	2201.5	2185.6	2252.0	2286.0	2314.9	2387.1	2449.2	2473.0	2511.3	2510.7	2503.4
22.5°	1895.3	1899.0	1962.0	2002.3	2086.7	2158.9	2229.7	2319.4	2393.5	2442.4	2471.1
25°	1392.5	1420.0	1482.8	1537.8	1631.6	1765.9	1888.0	2029.6	2163.2	2268.7	2369.1
27.5°	1045.8	1047.9	1097.7	1148.4	1204.2	1314.3	1467.9	1637.0	1827.5	1984.7	2165.5
30°	895.6	891.3	912.2	943.3	991.0	1076.2	1191.8	1357.9	1547.8	1784.7	1995.6
32.5°	789.3	789.6	805.3	828.3	867.9	925.4	1004.6	1139.4	1319.0	1551.9	1799.2
35°	686.2	685.4	697.0	713.6	730.2	767.0	821.2	892.0	1015.5	1232.9	1485.7
37.5°	612.2	615.4	621.0	631.4	649.8	670.2	702.8	750.3	838.3	966.9	1179.3
40°	570.6	572.0	579.9	588.6	599.5	615.4	642.1	680.4	744.7	847.3	1002.5
42.5°	532.4	534.0	539.5	547.6	556.2	572.0	594.2	627.3	679.4	759.4	887.5
45°	476.7	476.7	481.7	485.4	494.7	509.2	527.3	554.7	590.8	650.1	735.3
47.5°	424.4	424.5	427.9	434.1	440.0	451.3	469.0	491.4	517.7	563.5	636.3
50°	394.4	395.1	397.3	402.3	406.0	416.0	429.8	449.2	476.7	512.1	572.8
52.5°	370.1	369.7	372.4	374.6	377.0	384.3	394.5	411.7	436.2	467.0	517.3
55°	330.8	327.9	332.2	335.8	338.0	340.9	346.7	357.5	378.4	404.4	442.1
57.5°	281.7	280.5	283.6	286.9	293.7	301.5	306.4	313.3	324.1	342.8	380.0
60°	241.2	241.2	247.7	249.9	257.9	268.0	278.1	283.9	294.7	307.0	334.4
62.5°	205.4	206.0	209.1	211.2	215.7	228.1	242.2	255.0	265.2	276.9	295.1
65°	171.9	173.3	173.3	174.7	177.7	180.6	186.3	196.4	214.5	231.1	244.9
67.5°	145.9	146.4	146.8	148.2	148.9	152.1	154.4	158.9	163.1	178.8	195.9
70°	128.6	130.7	130.0	131.5	132.1	133.7	136.5	138.6	145.2	148.8	158.9
72.5°	112.4	114.0	113.9	114.7	116.6	116.9	119.1	121.3	125.5	128.6	134.0
75°	91.0	90.3	91.0	92.5	93.2	93.9	93.9	96.8	99.0	101.8	105.5
77.5°	70.2	71.0	70.8	71.0	71.1	72.4	72.2	73.5	75.7	77.1	78.9
80°	56.4	57.0	56.4	57.0	57.8	58.5	57.8	58.5	60.7	62.1	62.1
82.5°	43.6	43.7	44.2	44.4	44.5	44.7	45.6	45.8	47.4	47.1	47.7
85°	26.0	25.3	25.3	25.3	26.0	26.8	26.0	26.0	26.8	26.8	26.8
87.5°	11.4	12.0	12.0	11.9	11.9	11.8	11.7	12.2	11.5	12.0	11.3
90°	10.8	10.7	10.6	10.4	10.2	9.8	9.4	9.0	8.5	8.0	7.4
92.5°	10.8	10.7	10.7	10.6	10.5	10.3	10.1	9.8	9.6	9.3	9.0
95°	17.3	17.4	17.5	17.6	17.7	17.5	17.1	16.6	16.1	15.7	15.1
97.5°	23.1	23.0	22.9	22.8	22.7	22.4	22.1	21.8	21.4	21.0	19.6
100°	27.0	26.8	26.7	26.5	26.3	25.8	25.1	24.4	23.7	23.0	21.4
102.5°	28.9	28.7	28.5	28.2	27.9	27.3	26.4	25.4	24.5	23.6	36.4
105°	30.6	30.3	29.9	29.5	29.2	28.6	27.5	26.6	25.5	24.6	49.0
107.5°	31.5	31.1	30.8	30.4	30.1	30.3	31.4	32.4	33.4	34.4	63.7
110°	31.9	31.5	31.1	30.7	30.3	34.7	43.6	52.6	61.5	70.5	96.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	32.1	31.9	31.6	31.3	31.0	47.2	79.8	112.5	145.2	177.9	184.2
115°	33.0	39.5	45.9	52.4	58.8	82.8	124.2	165.7	207.1	248.5	246.3
117.5°	134.9	156.1	177.2	198.4	219.6	235.2	245.2	255.2	265.3	275.3	273.8
120°	245.7	257.8	269.9	282.0	294.1	299.6	298.5	297.5	296.3	295.3	293.7
122.5°	306.6	309.0	311.3	313.7	316.0	316.9	316.2	315.6	315.0	314.3	312.5
125°	344.4	344.2	343.9	343.7	343.4	342.9	342.3	341.7	341.0	340.4	338.7
127.5°	368.3	368.3	368.2	368.2	368.1	367.6	366.6	365.8	364.9	363.9	362.7
130°	383.1	383.2	383.3	383.4	383.5	383.0	382.0	381.1	380.0	379.1	378.1
132.5°	397.7	397.8	397.8	397.8	397.9	397.6	396.7	396.0	395.1	394.3	393.2
135°	418.6	418.8	419.0	419.1	419.2	419.0	418.0	417.2	416.2	415.4	414.5
137.5°	437.6	438.0	438.3	438.6	438.8	438.6	437.7	436.9	435.9	435.1	434.1
140°	449.6	450.1	450.4	450.9	451.4	451.2	450.4	449.6	448.7	448.0	447.0
142.5°	461.2	461.7	462.1	462.5	463.0	462.9	462.1	461.4	460.6	459.9	458.7
145°	477.4	477.9	478.2	478.7	479.2	479.1	478.4	477.9	477.2	476.5	475.0
147.5°	491.6	492.0	492.4	492.8	493.1	493.1	492.7	492.2	491.7	491.3	489.7
150°	500.4	500.8	501.2	501.7	502.2	502.1	501.5	501.1	500.5	499.9	498.5
152.5°	507.7	508.3	509.0	509.5	510.1	510.2	509.6	509.1	508.5	508.0	506.6
155°	518.1	518.8	519.5	520.2	520.9	521.0	520.5	520.0	519.4	518.9	517.8
157.5°	527.5	528.2	528.9	529.6	530.3	530.4	529.7	529.1	528.5	527.9	527.2
160°	533.0	533.6	534.2	534.9	535.5	535.6	535.0	534.4	534.0	533.4	532.8
162.5°	537.5	538.3	539.0	539.8	540.5	540.6	540.1	539.4	538.9	538.2	537.7
165°	544.2	544.9	545.5	546.1	546.8	546.8	546.1	545.5	544.9	544.2	544.0
167.5°	548.6	549.3	550.2	550.9	551.8	551.9	551.2	550.6	550.0	549.3	549.1
170°	551.1	552.0	552.7	553.6	554.3	554.4	553.8	553.2	552.5	552.0	551.8
172.5°	553.1	553.8	554.7	555.4	556.3	556.4	555.7	555.1	554.5	553.8	553.6
175°	554.8	555.6	556.6	557.4	558.4	558.5	557.8	557.2	556.6	555.9	555.7
177.5°	555.8	556.4	557.0	557.7	558.4	558.5	557.9	557.4	556.9	556.4	556.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2128.4	2123.7	2119.8	2109.3	2104.1	2092.5	2090.8	2090.3	2075.3	2060.8	2056.7
5°	2201.5	2189.9	2172.7	2152.4	2131.5	2109.8	2095.4	2083.8	2054.8	2027.4	2011.6
7.5°	2275.2	2250.3	2220.4	2182.2	2150.2	2114.4	2087.8	2064.0	2023.0	1983.7	1957.2
10°	2330.1	2289.6	2249.8	2197.2	2156.0	2115.5	2078.0	2045.5	1999.2	1947.3	1910.4
12.5°	2364.2	2319.7	2264.9	2213.4	2160.0	2108.7	2058.3	2016.6	1962.3	1908.6	1864.8
15°	2410.3	2362.6	2296.1	2222.4	2153.8	2086.7	2028.9	1976.9	1906.1	1841.8	1788.4
17.5°	2448.0	2382.4	2311.0	2225.8	2146.4	2061.0	1986.6	1920.1	1841.4	1763.8	1700.8
20°	2460.0	2395.1	2312.7	2227.5	2133.6	2033.3	1953.0	1880.8	1796.3	1711.8	1639.6
22.5°	2452.6	2402.0	2310.5	2208.5	2112.2	2007.2	1916.7	1832.9	1739.1	1652.8	1569.1
25°	2401.6	2384.3	2297.5	2186.3	2076.5	1954.5	1849.7	1758.0	1651.1	1558.7	1467.6
27.5°	2282.6	2320.1	2266.3	2147.9	2025.8	1895.0	1777.3	1672.8	1561.9	1457.8	1367.2
30°	2168.3	2254.2	2231.1	2121.3	1984.8	1856.2	1724.1	1615.0	1496.6	1389.7	1300.1
32.5°	2011.7	2153.7	2176.2	2084.3	1943.2	1802.0	1663.4	1554.9	1431.3	1318.6	1231.3
35°	1762.4	1974.7	2072.2	2013.7	1872.2	1719.8	1576.7	1450.3	1326.1	1214.8	1128.2
37.5°	1464.9	1754.2	1916.7	1920.8	1790.8	1632.4	1476.6	1351.1	1224.0	1114.7	1021.1
40°	1272.0	1585.4	1797.1	1844.0	1734.2	1563.0	1405.5	1277.7	1153.5	1046.6	939.0
42.5°	1098.6	1410.9	1671.0	1752.7	1665.5	1495.4	1337.4	1203.7	1083.0	981.8	871.9
45°	888.4	1161.4	1448.1	1594.0	1545.7	1388.2	1221.3	1094.3	980.8	893.4	788.0
47.5°	749.4	941.9	1219.4	1416.6	1415.8	1272.1	1108.0	986.2	881.0	799.1	713.8
50°	670.2	837.8	1072.6	1296.5	1315.2	1194.7	1038.6	918.0	819.8	733.9	665.2
52.5°	599.2	737.3	948.4	1163.0	1216.4	1112.0	960.6	849.2	753.9	674.9	616.1
55°	506.3	613.2	773.5	974.3	1055.3	981.6	847.3	743.2	665.9	599.5	548.9
57.5°	428.3	508.5	637.2	798.8	893.1	846.7	735.8	651.4	585.2	525.1	485.2
60°	379.2	444.9	554.0	689.1	793.1	760.5	665.9	587.2	530.8	478.9	441.3
62.5°	333.0	389.5	483.0	592.6	687.9	674.5	597.2	531.1	481.7	434.4	402.6
65°	268.0	309.2	382.1	468.1	544.6	551.1	495.5	450.7	406.6	369.1	340.9
67.5°	213.4	240.3	291.6	364.0	421.4	441.9	407.9	373.7	338.7	309.7	285.3
70°	179.8	201.5	239.0	297.6	350.3	371.9	352.5	325.7	295.4	271.5	250.6
72.5°	145.7	166.8	194.5	237.5	282.7	306.1	299.4	280.1	255.5	235.7	215.9
75°	109.8	116.3	135.1	164.0	199.3	219.6	224.6	214.5	195.0	179.8	168.2
77.5°	81.2	85.1	94.1	109.2	132.3	150.3	157.8	156.6	143.2	134.3	123.5
80°	65.0	67.2	71.5	78.0	95.4	113.4	118.5	118.5	109.1	105.5	94.6
82.5°	49.4	51.0	53.6	57.2	65.3	81.1	86.7	87.8	81.9	77.1	68.6
85°	28.2	27.4	28.9	31.1	32.5	36.9	45.5	46.9	45.5	39.7	37.5
87.5°	11.1	11.6	11.4	10.7	11.0	11.5	14.1	16.9	14.7	13.2	12.3
90°	6.6	5.9	5.2	4.3	3.4	2.4	1.4	0.4	1.4	2.4	3.4
92.5°	8.7	8.3	7.9	7.8	7.8	7.9	8.0	8.1	8.0	7.9	7.8
95°	14.4	13.9	13.2	14.3	17.3	20.3	23.2	26.2	23.2	20.3	17.3
97.5°	18.1	16.7	15.3	18.7	27.0	35.3	43.6	51.9	43.6	35.3	27.0
100°	19.9	18.4	16.9	22.2	34.5	46.8	59.0	71.4	59.0	46.8	34.5
102.5°	49.1	61.8	74.6	82.2	84.8	87.4	90.0	92.6	90.0	87.4	84.8
105°	73.4	97.9	122.3	133.2	130.5	127.8	125.2	122.4	125.2	127.8	130.5
107.5°	93.0	122.3	151.7	165.2	163.1	160.9	158.7	156.6	158.7	160.9	163.1
110°	122.2	148.1	174.0	186.0	184.1	182.2	180.3	178.4	180.3	182.2	184.1



TEST NUMBER: P331845-830

CATALOG NUMBER: S122RDIW-S1005D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	190.6	197.0	203.4	205.8	204.1	202.5	200.8	199.1	200.8	202.5	204.1
115°	244.1	241.9	239.6	237.7	236.2	234.7	233.2	231.7	233.2	234.7	236.2
117.5°	272.2	270.7	269.2	267.5	265.8	264.1	262.4	260.7	262.4	264.1	265.8
120°	292.1	290.5	288.9	287.4	286.1	284.6	283.3	282.0	283.3	284.6	286.1
122.5°	310.8	309.1	307.3	305.7	304.3	302.8	301.4	300.0	301.4	302.8	304.3
125°	337.1	335.4	333.6	332.2	331.0	329.9	328.7	327.5	328.7	329.9	331.0
127.5°	361.4	360.1	358.8	357.6	356.3	355.0	353.7	352.4	353.7	355.0	356.3
130°	377.1	376.2	375.1	373.9	372.5	371.1	369.7	368.3	369.7	371.1	372.5
132.5°	392.3	391.2	390.3	389.2	388.0	386.7	385.5	384.4	385.5	386.7	388.0
135°	413.8	412.9	412.1	411.0	409.5	408.1	406.7	405.3	406.7	408.1	409.5
137.5°	433.3	432.3	431.4	430.5	429.5	428.5	427.4	426.5	427.4	428.5	429.5
140°	446.0	445.1	444.0	443.2	442.4	441.8	441.0	440.4	441.0	441.8	442.4
142.5°	457.6	456.5	455.4	454.5	453.8	453.2	452.6	451.9	452.6	453.2	453.8
145°	473.5	472.0	470.5	469.8	469.9	470.0	470.0	470.1	470.0	470.0	469.9
147.5°	488.2	486.7	485.2	484.7	485.0	485.3	485.7	486.0	485.7	485.3	485.0
150°	497.1	495.7	494.2	493.8	494.5	495.0	495.7	496.3	495.7	495.0	494.5
152.5°	505.3	503.9	502.6	502.2	502.9	503.6	504.4	505.0	504.4	503.6	502.9
155°	516.7	515.7	514.6	514.4	515.3	516.0	516.9	517.6	516.9	516.0	515.3
157.5°	526.4	525.7	524.9	524.9	525.6	526.2	526.9	527.5	526.9	526.2	525.6
160°	532.3	531.8	531.2	531.2	531.8	532.3	532.8	533.4	532.8	532.3	531.8
162.5°	537.2	536.8	536.4	536.4	537.0	537.4	538.0	538.6	538.0	537.4	537.0
165°	543.8	543.5	543.2	543.3	543.8	544.4	545.0	545.4	545.0	544.4	543.8
167.5°	548.8	548.6	548.4	548.5	549.0	549.6	550.1	550.6	550.1	549.6	549.0
170°	551.6	551.4	551.2	551.4	552.0	552.4	553.0	553.6	553.0	552.4	552.0
172.5°	553.5	553.3	553.2	553.3	553.8	554.4	555.0	555.4	555.0	554.4	553.8
175°	555.6	555.4	555.3	555.4	556.1	556.7	557.3	558.0	557.3	556.7	556.1
177.5°	556.3	556.2	556.1	556.4	556.9	557.3	557.9	558.4	557.9	557.3	556.9
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331845-830

CATALOG NUMBER: S122RDIW-S1005D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2049.3	2045.2	2037.7	2026.1	2019.2	2007.1	1998.9	2003.6	2004.8	2003.6	2002.4
5°	1994.2	1979.1	1958.1	1937.9	1919.1	1898.8	1887.3	1882.3	1872.2	1866.3	1863.5
7.5°	1927.6	1901.5	1871.9	1836.6	1806.7	1775.4	1759.3	1751.3	1730.7	1719.5	1709.6
10°	1877.9	1836.7	1807.1	1761.0	1732.8	1691.6	1663.4	1664.2	1636.0	1620.0	1608.5
12.5°	1823.1	1777.8	1728.5	1687.0	1647.8	1614.8	1580.7	1567.1	1537.2	1521.8	1490.6
15°	1732.0	1679.3	1627.3	1570.9	1531.3	1480.0	1430.9	1370.9	1322.5	1280.6	1269.0
17.5°	1632.7	1567.4	1515.2	1449.1	1381.0	1294.8	1237.8	1203.1	1173.8	1151.8	1135.3
20°	1564.4	1498.0	1442.4	1342.7	1250.9	1192.5	1150.6	1123.9	1093.5	1069.7	1056.7
22.5°	1492.8	1423.4	1347.6	1236.4	1164.9	1117.9	1080.6	1049.9	1029.4	1010.8	998.9
25°	1391.1	1315.2	1190.3	1113.7	1055.9	1006.8	980.8	962.1	940.4	915.1	903.6
27.5°	1283.6	1163.0	1073.3	1016.3	961.2	929.3	905.9	877.9	858.5	847.1	835.1
30°	1203.3	1082.7	1012.7	950.6	911.5	876.1	848.7	832.8	814.0	794.5	786.6
32.5°	1113.7	1017.4	950.3	898.5	858.9	828.8	807.1	781.4	767.8	755.8	739.1
35°	1002.5	929.5	868.2	826.3	788.7	764.2	738.9	723.7	699.2	689.1	682.6
37.5°	908.3	845.1	799.3	755.1	725.3	698.1	682.7	658.6	647.9	633.9	620.2
40°	855.2	793.1	749.0	712.8	679.7	659.4	639.9	620.5	604.5	598.0	581.5
42.5°	800.9	750.3	706.2	666.7	644.4	623.0	598.3	584.0	567.6	557.0	546.8
45°	725.9	681.1	643.6	611.1	586.4	564.1	548.2	524.3	515.0	494.1	485.4
47.5°	660.1	618.4	582.6	551.7	527.7	513.1	489.8	471.2	456.2	443.4	432.3
50°	613.2	578.5	543.8	516.4	494.7	473.8	450.0	440.5	417.5	410.9	404.4
52.5°	570.4	537.5	505.8	478.9	457.2	436.9	415.8	403.6	388.0	381.5	376.7
55°	510.7	478.9	448.6	424.7	403.0	382.1	369.1	353.9	346.7	341.7	335.8
57.5°	450.5	422.0	398.7	374.6	352.8	336.1	321.1	312.0	304.5	297.8	291.0
60°	412.5	384.9	364.0	341.7	319.2	305.5	294.0	283.1	274.5	264.4	261.5
62.5°	371.9	348.0	328.8	307.0	287.5	274.9	263.9	253.6	243.3	228.6	224.5
65°	316.3	297.6	277.4	259.3	242.0	229.7	213.8	202.3	197.9	196.4	195.8
67.5°	266.1	248.4	231.0	212.4	196.7	185.3	177.3	175.5	172.5	171.6	169.6
70°	232.6	215.9	198.6	181.3	166.2	164.0	161.1	158.2	154.6	153.2	151.7
72.5°	202.6	185.3	168.0	154.1	147.6	144.9	142.0	139.1	136.7	135.3	134.3
75°	155.3	139.4	127.8	122.8	119.1	117.0	112.6	110.5	109.1	106.9	106.1
77.5°	111.8	102.8	97.6	94.3	90.6	88.2	85.8	83.6	82.1	81.6	80.5
80°	85.2	80.9	77.3	73.0	71.5	68.6	67.9	65.7	66.4	64.3	64.3
82.5°	66.2	60.7	57.7	55.6	54.2	51.8	51.2	50.1	50.2	48.6	48.6
85°	33.9	32.5	31.1	29.6	29.6	27.4	28.2	27.4	27.4	26.0	25.3
87.5°	11.9	11.4	10.5	10.6	10.7	10.3	10.4	9.9	10.0	10.1	9.5
90°	4.3	5.2	5.9	6.6	7.4	8.0	8.5	9.0	9.4	9.8	10.2
92.5°	7.8	7.9	8.3	8.7	9.0	9.3	9.6	9.8	10.1	10.3	10.5
95°	14.3	13.2	13.9	14.4	15.1	15.7	16.1	16.6	17.1	17.5	17.7
97.5°	18.7	15.3	16.7	18.1	19.6	21.0	21.4	21.8	22.1	22.4	22.7
100°	22.2	16.9	18.4	19.9	21.4	23.0	23.7	24.4	25.1	25.8	26.3
102.5°	82.2	74.6	61.8	49.1	36.4	23.6	24.5	25.4	26.4	27.3	27.9
105°	133.2	122.3	97.9	73.4	49.0	24.6	25.5	26.6	27.5	28.6	29.2
107.5°	165.2	151.7	122.3	93.0	63.7	34.4	33.4	32.4	31.4	30.3	30.1
110°	186.0	174.0	148.1	122.2	96.3	70.5	61.5	52.6	43.6	34.7	30.3



TEST NUMBER: P331845-830

CATALOG NUMBER: S122RDIW-S1005D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	205.8	203.4	197.0	190.6	184.2	177.9	145.2	112.5	79.8	47.2	31.0
115°	237.7	239.6	241.9	244.1	246.3	248.5	207.1	165.7	124.2	82.8	58.8
117.5°	267.5	269.2	270.7	272.2	273.8	275.3	265.3	255.2	245.2	235.2	219.6
120°	287.4	288.9	290.5	292.1	293.7	295.3	296.3	297.5	298.5	299.6	294.1
122.5°	305.7	307.3	309.1	310.8	312.5	314.3	315.0	315.6	316.2	316.9	316.0
125°	332.2	333.6	335.4	337.1	338.7	340.4	341.0	341.7	342.3	342.9	343.4
127.5°	357.6	358.8	360.1	361.4	362.7	363.9	364.9	365.8	366.6	367.6	368.1
130°	373.9	375.1	376.2	377.1	378.1	379.1	380.0	381.1	382.0	383.0	383.5
132.5°	389.2	390.3	391.2	392.3	393.2	394.3	395.1	396.0	396.7	397.6	397.9
135°	411.0	412.1	412.9	413.8	414.5	415.4	416.2	417.2	418.0	419.0	419.2
137.5°	430.5	431.4	432.3	433.3	434.1	435.1	435.9	436.9	437.7	438.6	438.8
140°	443.2	444.0	445.1	446.0	447.0	448.0	448.7	449.6	450.4	451.2	451.4
142.5°	454.5	455.4	456.5	457.6	458.7	459.9	460.6	461.4	462.1	462.9	463.0
145°	469.8	470.5	472.0	473.5	475.0	476.5	477.2	477.9	478.4	479.1	479.2
147.5°	484.7	485.2	486.7	488.2	489.7	491.3	491.7	492.2	492.7	493.1	493.1
150°	493.8	494.2	495.7	497.1	498.5	499.9	500.5	501.1	501.5	502.1	502.2
152.5°	502.2	502.6	503.9	505.3	506.6	508.0	508.5	509.1	509.6	510.2	510.1
155°	514.4	514.6	515.7	516.7	517.8	518.9	519.4	520.0	520.5	521.0	520.9
157.5°	524.9	524.9	525.7	526.4	527.2	527.9	528.5	529.1	529.7	530.4	530.3
160°	531.2	531.2	531.8	532.3	532.8	533.4	534.0	534.4	535.0	535.6	535.5
162.5°	536.4	536.4	536.8	537.2	537.7	538.2	538.9	539.4	540.1	540.6	540.5
165°	543.3	543.2	543.5	543.8	544.0	544.2	544.9	545.5	546.1	546.8	546.8
167.5°	548.5	548.4	548.6	548.8	549.1	549.3	550.0	550.6	551.2	551.9	551.8
170°	551.4	551.2	551.4	551.6	551.8	552.0	552.5	553.2	553.8	554.4	554.3
172.5°	553.3	553.2	553.3	553.5	553.6	553.8	554.5	555.1	555.7	556.4	556.3
175°	555.4	555.3	555.4	555.6	555.7	555.9	556.6	557.2	557.8	558.5	558.4
177.5°	556.4	556.1	556.2	556.3	556.4	556.4	556.9	557.4	557.9	558.5	558.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331845-830

CATALOG NUMBER: S122RDIW-S1005D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1996.1	1997.2	1995.6	1996.7	1995.6	1997.2	1996.1	2002.4	2003.6	2004.8	2003.6
5°	1859.8	1851.2	1849.7	1847.6	1849.7	1851.2	1859.8	1863.5	1866.3	1872.2	1882.3
7.5°	1697.2	1695.9	1692.3	1687.2	1692.3	1695.9	1697.2	1709.6	1719.5	1730.7	1751.3
10°	1592.6	1589.0	1588.3	1583.2	1588.3	1589.0	1592.6	1608.5	1620.0	1636.0	1664.2
12.5°	1470.1	1446.9	1444.4	1431.8	1444.4	1446.9	1470.1	1490.6	1521.8	1537.2	1567.1
15°	1251.7	1247.4	1232.9	1223.5	1232.9	1247.4	1251.7	1269.0	1280.6	1322.5	1370.9
17.5°	1126.9	1112.8	1108.2	1106.3	1108.2	1112.8	1126.9	1135.3	1151.8	1173.8	1203.1
20°	1046.6	1033.6	1031.4	1030.0	1031.4	1033.6	1046.6	1056.7	1069.7	1093.5	1123.9
22.5°	991.1	977.5	971.9	967.5	971.9	977.5	991.1	998.9	1010.8	1029.4	1049.9
25°	896.4	891.3	888.4	886.9	888.4	891.3	896.4	903.6	915.1	940.4	962.1
27.5°	822.3	811.2	809.0	805.2	809.0	811.2	822.3	835.1	847.1	858.5	877.9
30°	780.0	776.5	771.4	767.0	771.4	776.5	780.0	786.6	794.5	814.0	832.8
32.5°	730.4	727.4	722.8	720.9	722.8	727.4	730.4	739.1	755.8	767.8	781.4
35°	675.3	665.2	660.9	654.4	660.9	665.2	675.3	682.6	689.1	699.2	723.7
37.5°	617.1	611.8	605.7	607.8	605.7	611.8	617.1	620.2	633.9	647.9	658.6
40°	572.0	568.4	567.0	566.3	567.0	568.4	572.0	581.5	598.0	604.5	620.5
42.5°	536.2	526.2	522.5	522.4	522.5	526.2	536.2	546.8	557.0	567.6	584.0
45°	481.7	472.4	465.9	466.6	465.9	472.4	481.7	485.4	494.1	515.0	524.3
47.5°	426.0	425.7	421.7	422.9	421.7	425.7	426.0	432.3	443.4	456.2	471.2
50°	399.4	395.1	392.2	392.9	392.2	395.1	399.4	404.4	410.9	417.5	440.5
52.5°	374.0	370.2	368.0	371.0	368.0	370.2	374.0	376.7	381.5	388.0	403.6
55°	332.2	327.9	327.2	326.5	327.2	327.9	332.2	335.8	341.7	346.7	353.9
57.5°	285.6	282.7	278.3	276.4	278.3	282.7	285.6	291.0	297.8	304.5	312.0
60°	252.0	246.3	239.0	238.4	239.0	246.3	252.0	261.5	264.4	274.5	283.1
62.5°	221.4	220.3	218.9	218.7	218.9	220.3	221.4	224.5	228.6	243.3	253.6
65°	194.3	193.6	194.3	195.0	194.3	193.6	194.3	195.8	196.4	197.9	202.3
67.5°	169.3	168.0	166.7	167.3	166.7	168.0	169.3	169.6	171.6	172.5	175.5
70°	150.2	149.5	148.8	148.8	148.8	149.5	150.2	151.7	153.2	154.6	158.2
72.5°	131.8	131.6	130.9	130.3	130.9	131.6	131.8	134.3	135.3	136.7	139.1
75°	105.5	104.0	104.0	104.0	104.0	104.0	105.5	106.1	106.9	109.1	110.5
77.5°	80.3	79.6	78.9	78.3	78.9	79.6	80.3	80.5	81.6	82.1	83.6
80°	63.5	62.9	62.1	62.1	62.1	62.9	63.5	64.3	64.3	66.4	65.7
82.5°	48.5	47.8	47.7	47.1	47.7	47.8	48.5	48.6	48.6	50.2	50.1
85°	26.0	26.8	26.0	27.4	26.0	26.8	26.0	25.3	26.0	27.4	27.4
87.5°	9.6	9.0	9.6	9.1	9.6	9.0	9.6	9.5	10.1	10.0	9.9
90°	10.4	10.6	10.7	10.8	10.7	10.6	10.4	10.2	9.8	9.4	9.0
92.5°	10.6	10.7	10.7	10.8	10.7	10.7	10.6	10.5	10.3	10.1	9.8
95°	17.6	17.5	17.4	17.3	17.4	17.5	17.6	17.7	17.5	17.1	16.6
97.5°	22.8	22.9	23.0	23.1	23.0	22.9	22.8	22.7	22.4	22.1	21.8
100°	26.5	26.7	26.8	27.0	26.8	26.7	26.5	26.3	25.8	25.1	24.4
102.5°	28.2	28.5	28.7	28.9	28.7	28.5	28.2	27.9	27.3	26.4	25.4
105°	29.5	29.9	30.3	30.6	30.3	29.9	29.5	29.2	28.6	27.5	26.6
107.5°	30.4	30.8	31.1	31.5	31.1	30.8	30.4	30.1	30.3	31.4	32.4
110°	30.7	31.1	31.5	31.9	31.5	31.1	30.7	30.3	34.7	43.6	52.6



TEST NUMBER: P331845-830

CATALOG NUMBER: S122RDIW-S1005D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	31.3	31.6	31.9	32.1	31.9	31.6	31.3	31.0	47.2	79.8	112.5
115°	52.4	45.9	39.5	33.0	39.5	45.9	52.4	58.8	82.8	124.2	165.7
117.5°	198.4	177.2	156.1	134.9	156.1	177.2	198.4	219.6	235.2	245.2	255.2
120°	282.0	269.9	257.8	245.7	257.8	269.9	282.0	294.1	299.6	298.5	297.5
122.5°	313.7	311.3	309.0	306.6	309.0	311.3	313.7	316.0	316.9	316.2	315.6
125°	343.7	343.9	344.2	344.4	344.2	343.9	343.7	343.4	342.9	342.3	341.7
127.5°	368.2	368.2	368.3	368.3	368.3	368.2	368.2	368.1	367.6	366.6	365.8
130°	383.4	383.3	383.2	383.1	383.2	383.3	383.4	383.5	383.0	382.0	381.1
132.5°	397.8	397.8	397.8	397.7	397.8	397.8	397.8	397.9	397.6	396.7	396.0
135°	419.1	419.0	418.8	418.6	418.8	419.0	419.1	419.2	419.0	418.0	417.2
137.5°	438.6	438.3	438.0	437.6	438.0	438.3	438.6	438.8	438.6	437.7	436.9
140°	450.9	450.4	450.1	449.6	450.1	450.4	450.9	451.4	451.2	450.4	449.6
142.5°	462.5	462.1	461.7	461.2	461.7	462.1	462.5	463.0	462.9	462.1	461.4
145°	478.7	478.2	477.9	477.4	477.9	478.2	478.7	479.2	479.1	478.4	477.9
147.5°	492.8	492.4	492.0	491.6	492.0	492.4	492.8	493.1	493.1	492.7	492.2
150°	501.7	501.2	500.8	500.4	500.8	501.2	501.7	502.2	502.1	501.5	501.1
152.5°	509.5	509.0	508.3	507.7	508.3	509.0	509.5	510.1	510.2	509.6	509.1
155°	520.2	519.5	518.8	518.1	518.8	519.5	520.2	520.9	521.0	520.5	520.0
157.5°	529.6	528.9	528.2	527.5	528.2	528.9	529.6	530.3	530.4	529.7	529.1
160°	534.9	534.2	533.6	533.0	533.6	534.2	534.9	535.5	535.6	535.0	534.4
162.5°	539.8	539.0	538.3	537.5	538.3	539.0	539.8	540.5	540.6	540.1	539.4
165°	546.1	545.5	544.9	544.2	544.9	545.5	546.1	546.8	546.8	546.1	545.5
167.5°	550.9	550.2	549.3	548.6	549.3	550.2	550.9	551.8	551.9	551.2	550.6
170°	553.6	552.7	552.0	551.1	552.0	552.7	553.6	554.3	554.4	553.8	553.2
172.5°	555.4	554.7	553.8	553.1	553.8	554.7	555.4	556.3	556.4	555.7	555.1
175°	557.4	556.6	555.6	554.8	555.6	556.6	557.4	558.4	558.5	557.8	557.2
177.5°	557.7	557.0	556.4	555.8	556.4	557.0	557.7	558.4	558.5	557.9	557.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331845-830

CATALOG NUMBER: S122RDIW-S1005D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1998.9	2007.1	2019.2	2026.1	2037.7	2045.2	2049.3	2056.7	2060.8	2075.3	2090.3
5°	1887.3	1898.8	1919.1	1937.9	1958.1	1979.1	1994.2	2011.6	2027.4	2054.8	2083.8
7.5°	1759.3	1775.4	1806.7	1836.6	1871.9	1901.5	1927.6	1957.2	1983.7	2023.0	2064.0
10°	1663.4	1691.6	1732.8	1761.0	1807.1	1836.7	1877.9	1910.4	1947.3	1999.2	2045.5
12.5°	1580.7	1614.8	1647.8	1687.0	1728.5	1777.8	1823.1	1864.8	1908.6	1962.3	2016.6
15°	1430.9	1480.0	1531.3	1570.9	1627.3	1679.3	1732.0	1788.4	1841.8	1906.1	1976.9
17.5°	1237.8	1294.8	1381.0	1449.1	1515.2	1567.4	1632.7	1700.8	1763.8	1841.4	1920.1
20°	1150.6	1192.5	1250.9	1342.7	1442.4	1498.0	1564.4	1639.6	1711.8	1796.3	1880.8
22.5°	1080.6	1117.9	1164.9	1236.4	1347.6	1423.4	1492.8	1569.1	1652.8	1739.1	1832.9
25°	980.8	1006.8	1055.9	1113.7	1190.3	1315.2	1391.1	1467.6	1558.7	1651.1	1758.0
27.5°	905.9	929.3	961.2	1016.3	1073.3	1163.0	1283.6	1367.2	1457.8	1561.9	1672.8
30°	848.7	876.1	911.5	950.6	1012.7	1082.7	1203.3	1300.1	1389.7	1496.6	1615.0
32.5°	807.1	828.8	858.9	898.5	950.3	1017.4	1113.7	1231.3	1318.6	1431.3	1554.9
35°	738.9	764.2	788.7	826.3	868.2	929.5	1002.5	1128.2	1214.8	1326.1	1450.3
37.5°	682.7	698.1	725.3	755.1	799.3	845.1	908.3	1021.1	1114.7	1224.0	1351.1
40°	639.9	659.4	679.7	712.8	749.0	793.1	855.2	939.0	1046.6	1153.5	1277.7
42.5°	598.3	623.0	644.4	666.7	706.2	750.3	800.9	871.9	981.8	1083.0	1203.7
45°	548.2	564.1	586.4	611.1	643.6	681.1	725.9	788.0	893.4	980.8	1094.3
47.5°	489.8	513.1	527.7	551.7	582.6	618.4	660.1	713.8	799.1	881.0	986.2
50°	450.0	473.8	494.7	516.4	543.8	578.5	613.2	665.2	733.9	819.8	918.0
52.5°	415.8	436.9	457.2	478.9	505.8	537.5	570.4	616.1	674.9	753.9	849.2
55°	369.1	382.1	403.0	424.7	448.6	478.9	510.7	548.9	599.5	665.9	743.2
57.5°	321.1	336.1	352.8	374.6	398.7	422.0	450.5	485.2	525.1	585.2	651.4
60°	294.0	305.5	319.2	341.7	364.0	384.9	412.5	441.3	478.9	530.8	587.2
62.5°	263.9	274.9	287.5	307.0	328.8	348.0	371.9	402.6	434.4	481.7	531.1
65°	213.8	229.7	242.0	259.3	277.4	297.6	316.3	340.9	369.1	406.6	450.7
67.5°	177.3	185.3	196.7	212.4	231.0	248.4	266.1	285.3	309.7	338.7	373.7
70°	161.1	164.0	166.2	181.3	198.6	215.9	232.6	250.6	271.5	295.4	325.7
72.5°	142.0	144.9	147.6	154.1	168.0	185.3	202.6	215.9	235.7	255.5	280.1
75°	112.6	117.0	119.1	122.8	127.8	139.4	155.3	168.2	179.8	195.0	214.5
77.5°	85.8	88.2	90.6	94.3	97.6	102.8	111.8	123.5	134.3	143.2	156.6
80°	67.9	68.6	71.5	73.0	77.3	80.9	85.2	94.6	105.5	109.1	118.5
82.5°	51.2	51.8	54.2	55.6	57.7	60.7	66.2	68.6	77.1	81.9	87.8
85°	28.2	27.4	29.6	29.6	31.1	32.5	33.9	37.5	39.7	45.5	46.9
87.5°	10.4	10.3	10.7	10.6	10.5	11.4	11.9	12.3	13.2	14.7	16.9
90°	8.5	8.0	7.4	6.6	5.9	5.2	4.3	3.4	2.4	1.4	0.4
92.5°	9.6	9.3	9.0	8.7	8.3	7.9	7.8	7.8	7.9	8.0	8.1
95°	16.1	15.7	15.1	14.4	13.9	13.2	14.3	17.3	20.3	23.2	26.2
97.5°	21.4	21.0	19.6	18.1	16.7	15.3	18.7	27.0	35.3	43.6	51.9
100°	23.7	23.0	21.4	19.9	18.4	16.9	22.2	34.5	46.8	59.0	71.4
102.5°	24.5	23.6	36.4	49.1	61.8	74.6	82.2	84.8	87.4	90.0	92.6
105°	25.5	24.6	49.0	73.4	97.9	122.3	133.2	130.5	127.8	125.2	122.4
107.5°	33.4	34.4	63.7	93.0	122.3	151.7	165.2	163.1	160.9	158.7	156.6
110°	61.5	70.5	96.3	122.2	148.1	174.0	186.0	184.1	182.2	180.3	178.4



TEST NUMBER: P331845-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	145.2	177.9	184.2	190.6	197.0	203.4	205.8	204.1	202.5	200.8	199.1
115°	207.1	248.5	246.3	244.1	241.9	239.6	237.7	236.2	234.7	233.2	231.7
117.5°	265.3	275.3	273.8	272.2	270.7	269.2	267.5	265.8	264.1	262.4	260.7
120°	296.3	295.3	293.7	292.1	290.5	288.9	287.4	286.1	284.6	283.3	282.0
122.5°	315.0	314.3	312.5	310.8	309.1	307.3	305.7	304.3	302.8	301.4	300.0
125°	341.0	340.4	338.7	337.1	335.4	333.6	332.2	331.0	329.9	328.7	327.5
127.5°	364.9	363.9	362.7	361.4	360.1	358.8	357.6	356.3	355.0	353.7	352.4
130°	380.0	379.1	378.1	377.1	376.2	375.1	373.9	372.5	371.1	369.7	368.3
132.5°	395.1	394.3	393.2	392.3	391.2	390.3	389.2	388.0	386.7	385.5	384.4
135°	416.2	415.4	414.5	413.8	412.9	412.1	411.0	409.5	408.1	406.7	405.3
137.5°	435.9	435.1	434.1	433.3	432.3	431.4	430.5	429.5	428.5	427.4	426.5
140°	448.7	448.0	447.0	446.0	445.1	444.0	443.2	442.4	441.8	441.0	440.4
142.5°	460.6	459.9	458.7	457.6	456.5	455.4	454.5	453.8	453.2	452.6	451.9
145°	477.2	476.5	475.0	473.5	472.0	470.5	469.8	469.9	470.0	470.0	470.1
147.5°	491.7	491.3	489.7	488.2	486.7	485.2	484.7	485.0	485.3	485.7	486.0
150°	500.5	499.9	498.5	497.1	495.7	494.2	493.8	494.5	495.0	495.7	496.3
152.5°	508.5	508.0	506.6	505.3	503.9	502.6	502.2	502.9	503.6	504.4	505.0
155°	519.4	518.9	517.8	516.7	515.7	514.6	514.4	515.3	516.0	516.9	517.6
157.5°	528.5	527.9	527.2	526.4	525.7	524.9	524.9	525.6	526.2	526.9	527.5
160°	534.0	533.4	532.8	532.3	531.8	531.2	531.2	531.8	532.3	532.8	533.4
162.5°	538.9	538.2	537.7	537.2	536.8	536.4	536.4	537.0	537.4	538.0	538.6
165°	544.9	544.2	544.0	543.8	543.5	543.2	543.3	543.8	544.4	545.0	545.4
167.5°	550.0	549.3	549.1	548.8	548.6	548.4	548.5	549.0	549.6	550.1	550.6
170°	552.5	552.0	551.8	551.6	551.4	551.2	551.4	552.0	552.4	553.0	553.6
172.5°	554.5	553.8	553.6	553.5	553.3	553.2	553.3	553.8	554.4	555.0	555.4
175°	556.6	555.9	555.7	555.6	555.4	555.3	555.4	556.1	556.7	557.3	558.0
177.5°	556.9	556.4	556.4	556.3	556.2	556.1	556.4	556.9	557.3	557.9	558.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331845-830

CATALOG NUMBER: S122RDIW-S1005D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2090.8	2092.5	2104.1	2109.3	2119.8	2123.7	2128.4	2127.2	2127.2	2129.6	2145.7
5°	2095.4	2109.8	2131.5	2152.4	2172.7	2189.9	2201.5	2213.1	2217.4	2238.4	2257.1
7.5°	2087.8	2114.4	2150.2	2182.2	2220.4	2250.3	2275.2	2297.5	2312.9	2343.3	2374.5
10°	2078.0	2115.5	2156.0	2197.2	2249.8	2289.6	2330.1	2361.2	2371.2	2416.8	2442.8
12.5°	2058.3	2108.7	2160.0	2213.4	2264.9	2319.7	2364.2	2395.2	2430.7	2471.6	2519.6
15°	2028.9	2086.7	2153.8	2222.4	2296.1	2362.6	2410.3	2464.4	2503.4	2548.2	2590.1
17.5°	1986.6	2061.0	2146.4	2225.8	2311.0	2382.4	2448.0	2499.9	2527.4	2553.0	2559.2
20°	1953.0	2033.3	2133.6	2227.5	2312.7	2395.1	2460.0	2503.4	2510.7	2511.3	2473.0
22.5°	1916.7	2007.2	2112.2	2208.5	2310.5	2402.0	2452.6	2471.1	2442.4	2393.5	2319.4
25°	1849.7	1954.5	2076.5	2186.3	2297.5	2384.3	2401.6	2369.1	2268.7	2163.2	2029.6
27.5°	1777.3	1895.0	2025.8	2147.9	2266.3	2320.1	2282.6	2165.5	1984.7	1827.5	1637.0
30°	1724.1	1856.2	1984.8	2121.3	2231.1	2254.2	2168.3	1995.6	1784.7	1547.8	1357.9
32.5°	1663.4	1802.0	1943.2	2084.3	2176.2	2153.7	2011.7	1799.2	1551.9	1319.0	1139.4
35°	1576.7	1719.8	1872.2	2013.7	2072.2	1974.7	1762.4	1485.7	1232.9	1015.5	892.0
37.5°	1476.6	1632.4	1790.8	1920.8	1916.7	1754.2	1464.9	1179.3	966.9	838.3	750.3
40°	1405.5	1563.0	1734.2	1844.0	1797.1	1585.4	1272.0	1002.5	847.3	744.7	680.4
42.5°	1337.4	1495.4	1665.5	1752.7	1671.0	1410.9	1098.6	887.5	759.4	679.4	627.3
45°	1221.3	1388.2	1545.7	1594.0	1448.1	1161.4	888.4	735.3	650.1	590.8	554.7
47.5°	1108.0	1272.1	1415.8	1416.6	1219.4	941.9	749.4	636.3	563.5	517.7	491.4
50°	1038.6	1194.7	1315.2	1296.5	1072.6	837.8	670.2	572.8	512.1	476.7	449.2
52.5°	960.6	1112.0	1216.4	1163.0	948.4	737.3	599.2	517.3	467.0	436.2	411.7
55°	847.3	981.6	1055.3	974.3	773.5	613.2	506.3	442.1	404.4	378.4	357.5
57.5°	735.8	846.7	893.1	798.8	637.2	508.5	428.3	380.0	342.8	324.1	313.3
60°	665.9	760.5	793.1	689.1	554.0	444.9	379.2	334.4	307.0	294.7	283.9
62.5°	597.2	674.5	687.9	592.6	483.0	389.5	333.0	295.1	276.9	265.2	255.0
65°	495.5	551.1	544.6	468.1	382.1	309.2	268.0	244.9	231.1	214.5	196.4
67.5°	407.9	441.9	421.4	364.0	291.6	240.3	213.4	195.9	178.8	163.1	158.9
70°	352.5	371.9	350.3	297.6	239.0	201.5	179.8	158.9	148.8	145.2	138.6
72.5°	299.4	306.1	282.7	237.5	194.5	166.8	145.7	134.0	128.6	125.5	121.3
75°	224.6	219.6	199.3	164.0	135.1	116.3	109.8	105.5	101.8	99.0	96.8
77.5°	157.8	150.3	132.3	109.2	94.1	85.1	81.2	78.9	77.1	75.7	73.5
80°	118.5	113.4	95.4	78.0	71.5	67.2	65.0	62.1	62.1	60.7	58.5
82.5°	86.7	81.1	65.3	57.2	53.6	51.0	49.4	47.7	47.1	47.4	45.8
85°	45.5	36.9	32.5	31.1	28.9	27.4	28.2	26.8	26.8	26.8	26.0
87.5°	14.1	11.5	11.0	10.7	11.4	11.6	11.1	11.3	12.0	11.5	12.2
90°	1.4	2.4	3.4	4.3	5.2	5.9	6.6	7.4	8.0	8.5	9.0
92.5°	8.0	7.9	7.8	7.8	7.9	8.3	8.7	9.0	9.3	9.6	9.8
95°	23.2	20.3	17.3	14.3	13.2	13.9	14.4	15.1	15.7	16.1	16.6
97.5°	43.6	35.3	27.0	18.7	15.3	16.7	18.1	19.6	21.0	21.4	21.8
100°	59.0	46.8	34.5	22.2	16.9	18.4	19.9	21.4	23.0	23.7	24.4
102.5°	90.0	87.4	84.8	82.2	74.6	61.8	49.1	36.4	23.6	24.5	25.4
105°	125.2	127.8	130.5	133.2	122.3	97.9	73.4	49.0	24.6	25.5	26.6
107.5°	158.7	160.9	163.1	165.2	151.7	122.3	93.0	63.7	34.4	33.4	32.4
110°	180.3	182.2	184.1	186.0	174.0	148.1	122.2	96.3	70.5	61.5	52.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	200.8	202.5	204.1	205.8	203.4	197.0	190.6	184.2	177.9	145.2	112.5
115°	233.2	234.7	236.2	237.7	239.6	241.9	244.1	246.3	248.5	207.1	165.7
117.5°	262.4	264.1	265.8	267.5	269.2	270.7	272.2	273.8	275.3	265.3	255.2
120°	283.3	284.6	286.1	287.4	288.9	290.5	292.1	293.7	295.3	296.3	297.5
122.5°	301.4	302.8	304.3	305.7	307.3	309.1	310.8	312.5	314.3	315.0	315.6
125°	328.7	329.9	331.0	332.2	333.6	335.4	337.1	338.7	340.4	341.0	341.7
127.5°	353.7	355.0	356.3	357.6	358.8	360.1	361.4	362.7	363.9	364.9	365.8
130°	369.7	371.1	372.5	373.9	375.1	376.2	377.1	378.1	379.1	380.0	381.1
132.5°	385.5	386.7	388.0	389.2	390.3	391.2	392.3	393.2	394.3	395.1	396.0
135°	406.7	408.1	409.5	411.0	412.1	412.9	413.8	414.5	415.4	416.2	417.2
137.5°	427.4	428.5	429.5	430.5	431.4	432.3	433.3	434.1	435.1	435.9	436.9
140°	441.0	441.8	442.4	443.2	444.0	445.1	446.0	447.0	448.0	448.7	449.6
142.5°	452.6	453.2	453.8	454.5	455.4	456.5	457.6	458.7	459.9	460.6	461.4
145°	470.0	470.0	469.9	469.8	470.5	472.0	473.5	475.0	476.5	477.2	477.9
147.5°	485.7	485.3	485.0	484.7	485.2	486.7	488.2	489.7	491.3	491.7	492.2
150°	495.7	495.0	494.5	493.8	494.2	495.7	497.1	498.5	499.9	500.5	501.1
152.5°	504.4	503.6	502.9	502.2	502.6	503.9	505.3	506.6	508.0	508.5	509.1
155°	516.9	516.0	515.3	514.4	514.6	515.7	516.7	517.8	518.9	519.4	520.0
157.5°	526.9	526.2	525.6	524.9	524.9	525.7	526.4	527.2	527.9	528.5	529.1
160°	532.8	532.3	531.8	531.2	531.2	531.8	532.3	532.8	533.4	534.0	534.4
162.5°	538.0	537.4	537.0	536.4	536.4	536.8	537.2	537.7	538.2	538.9	539.4
165°	545.0	544.4	543.8	543.3	543.2	543.5	543.8	544.0	544.2	544.9	545.5
167.5°	550.1	549.6	549.0	548.5	548.4	548.6	548.8	549.1	549.3	550.0	550.6
170°	553.0	552.4	552.0	551.4	551.2	551.4	551.6	551.8	552.0	552.5	553.2
172.5°	555.0	554.4	553.8	553.3	553.2	553.3	553.5	553.6	553.8	554.5	555.1
175°	557.3	556.7	556.1	555.4	555.3	555.4	555.6	555.7	555.9	556.6	557.2
177.5°	557.9	557.3	556.9	556.4	556.1	556.2	556.3	556.4	556.4	556.9	557.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2151.5	2159.0	2162.5	2162.5	2166.5	2164.8	2163.0
5°	2275.2	2288.9	2291.8	2304.8	2314.1	2311.3	2312.7
7.5°	2398.1	2420.2	2442.0	2452.0	2453.5	2459.4	2461.5
10°	2473.8	2491.9	2525.8	2520.7	2546.0	2560.5	2536.7
12.5°	2546.6	2571.0	2594.5	2601.0	2615.4	2620.0	2610.6
15°	2612.4	2625.5	2627.0	2623.3	2627.6	2624.0	2610.3
17.5°	2550.9	2529.9	2487.1	2466.8	2450.8	2427.1	2417.6
20°	2449.2	2387.1	2314.9	2286.0	2252.0	2185.6	2201.5
22.5°	2229.7	2158.9	2086.7	2002.3	1962.0	1899.0	1895.3
25°	1888.0	1765.9	1631.6	1537.8	1482.8	1420.0	1392.5
27.5°	1467.9	1314.3	1204.2	1148.4	1097.7	1047.9	1045.8
30°	1191.8	1076.2	991.0	943.3	912.2	891.3	895.6
32.5°	1004.6	925.4	867.9	828.3	805.3	789.6	789.3
35°	821.2	767.0	730.2	713.6	697.0	685.4	686.2
37.5°	702.8	670.2	649.8	631.4	621.0	615.4	612.2
40°	642.1	615.4	599.5	588.6	579.9	572.0	570.6
42.5°	594.2	572.0	556.2	547.6	539.5	534.0	532.4
45°	527.3	509.2	494.7	485.4	481.7	476.7	476.7
47.5°	469.0	451.3	440.0	434.1	427.9	424.5	424.4
50°	429.8	416.0	406.0	402.3	397.3	395.1	394.4
52.5°	394.5	384.3	377.0	374.6	372.4	369.7	370.1
55°	346.7	340.9	338.0	335.8	332.2	327.9	330.8
57.5°	306.4	301.5	293.7	286.9	283.6	280.5	281.7
60°	278.1	268.0	257.9	249.9	247.7	241.2	241.2
62.5°	242.2	228.1	215.7	211.2	209.1	206.0	205.4
65°	186.3	180.6	177.7	174.7	173.3	173.3	171.9
67.5°	154.4	152.1	148.9	148.2	146.8	146.4	145.9
70°	136.5	133.7	132.1	131.5	130.0	130.7	128.6
72.5°	119.1	116.9	116.6	114.7	113.9	114.0	112.4
75°	93.9	93.9	93.2	92.5	91.0	90.3	91.0
77.5°	72.2	72.4	71.1	71.0	70.8	71.0	70.2
80°	57.8	58.5	57.8	57.0	56.4	57.0	56.4
82.5°	45.6	44.7	44.5	44.4	44.2	43.7	43.6
85°	26.0	26.8	26.0	25.3	25.3	25.3	26.0
87.5°	11.7	11.8	11.9	11.9	12.0	12.0	11.4
90°	9.4	9.8	10.2	10.4	10.6	10.7	10.8
92.5°	10.1	10.3	10.5	10.6	10.7	10.7	10.8
95°	17.1	17.5	17.7	17.6	17.5	17.4	17.3
97.5°	22.1	22.4	22.7	22.8	22.9	23.0	23.1
100°	25.1	25.8	26.3	26.5	26.7	26.8	27.0
102.5°	26.4	27.3	27.9	28.2	28.5	28.7	28.9
105°	27.5	28.6	29.2	29.5	29.9	30.3	30.6
107.5°	31.4	30.3	30.1	30.4	30.8	31.1	31.5
110°	43.6	34.7	30.3	30.7	31.1	31.5	31.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	79.8	47.2	31.0	31.3	31.6	31.9	32.1
115°	124.2	82.8	58.8	52.4	45.9	39.5	33.0
117.5°	245.2	235.2	219.6	198.4	177.2	156.1	134.9
120°	298.5	299.6	294.1	282.0	269.9	257.8	245.7
122.5°	316.2	316.9	316.0	313.7	311.3	309.0	306.6
125°	342.3	342.9	343.4	343.7	343.9	344.2	344.4
127.5°	366.6	367.6	368.1	368.2	368.2	368.3	368.3
130°	382.0	383.0	383.5	383.4	383.3	383.2	383.1
132.5°	396.7	397.6	397.9	397.8	397.8	397.8	397.7
135°	418.0	419.0	419.2	419.1	419.0	418.8	418.6
137.5°	437.7	438.6	438.8	438.6	438.3	438.0	437.6
140°	450.4	451.2	451.4	450.9	450.4	450.1	449.6
142.5°	462.1	462.9	463.0	462.5	462.1	461.7	461.2
145°	478.4	479.1	479.2	478.7	478.2	477.9	477.4
147.5°	492.7	493.1	493.1	492.8	492.4	492.0	491.6
150°	501.5	502.1	502.2	501.7	501.2	500.8	500.4
152.5°	509.6	510.2	510.1	509.5	509.0	508.3	507.7
155°	520.5	521.0	520.9	520.2	519.5	518.8	518.1
157.5°	529.7	530.4	530.3	529.6	528.9	528.2	527.5
160°	535.0	535.6	535.5	534.9	534.2	533.6	533.0
162.5°	540.1	540.6	540.5	539.8	539.0	538.3	537.5
165°	546.1	546.8	546.8	546.1	545.5	544.9	544.2
167.5°	551.2	551.9	551.8	550.9	550.2	549.3	548.6
170°	553.8	554.4	554.3	553.6	552.7	552.0	551.1
172.5°	555.7	556.4	556.3	555.4	554.7	553.8	553.1
175°	557.8	558.5	558.4	557.4	556.6	555.6	554.8
177.5°	557.9	558.5	558.4	557.7	557.0	556.4	555.8
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8

(END OF REPORT)