

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: P332471-927

Luminaire Tested: **S123RDIW-S1165D460U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332471-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1165D460U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4888.9 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

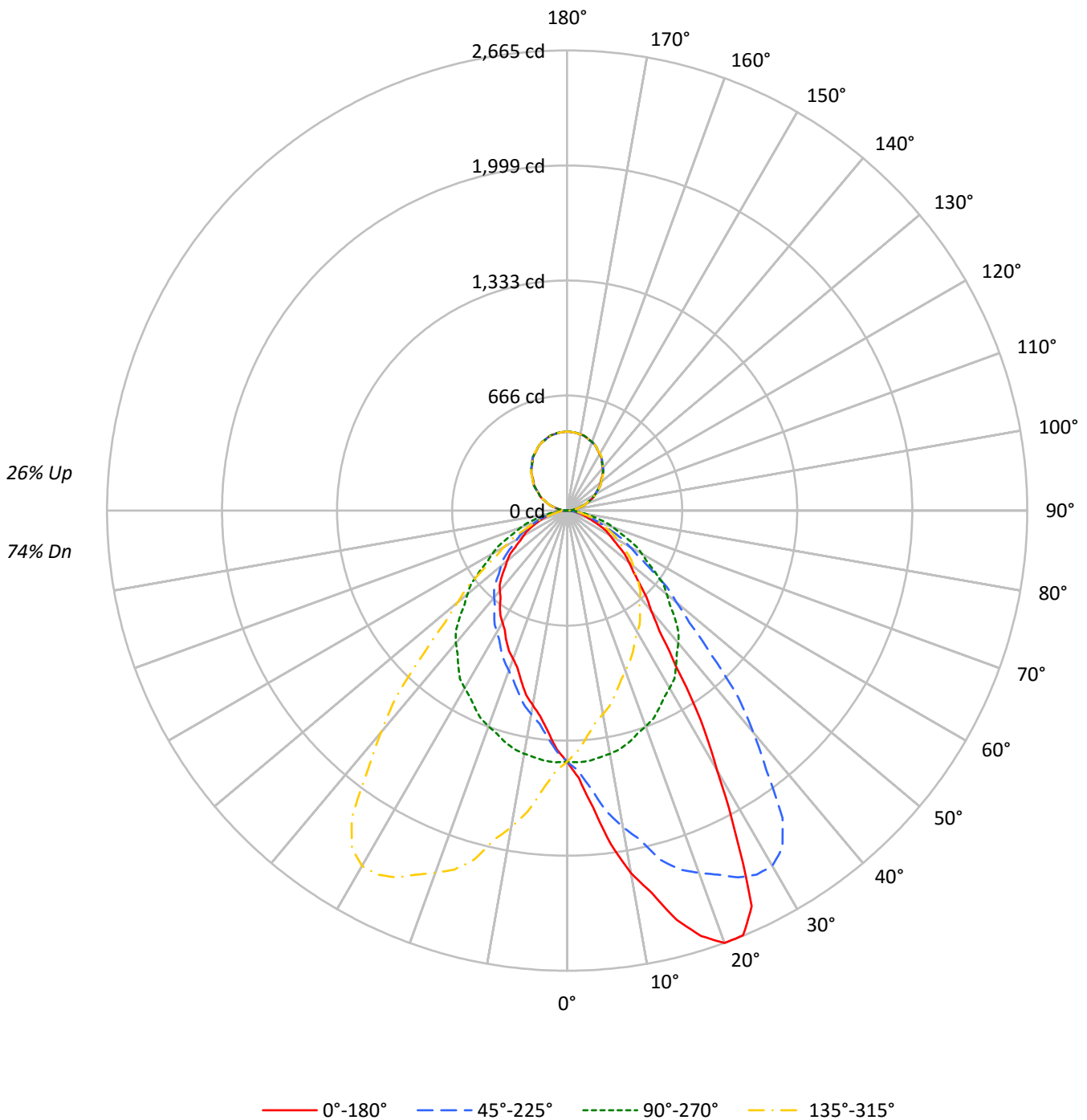
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	104	100	96	93	99	95	92	89	86	84	81	78	76	74	71	69	68	64
2	95	88	82	77	91	84	79	74	77	72	69	70	66	64	63	61	58	55
3	88	78	71	66	83	75	69	63	68	63	59	62	58	55	57	54	51	48
4	81	70	62	56	77	67	60	55	61	56	51	56	52	48	51	48	44	42
5	75	63	55	49	71	60	53	48	55	49	45	51	46	42	47	43	39	37
6	69	57	49	43	66	55	47	42	50	44	40	46	41	37	43	38	35	33
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31	29
8	60	47	40	34	57	46	38	33	42	36	32	39	34	30	36	32	28	26
9	56	44	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	34	28	25	31	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15655	15655	15655	15655
5°	18662	15722	13846	15722
10°	23302	15632	12508	15632
15°	27351	15473	11407	15473
20°	30525	15234	10470	15234
25°	30037	14982	9894	14982
30°	21592	14751	9302	14751
35°	14416	14448	8918	14448
40°	10621	14085	8521	14085
45°	8910	13449	8132	13449
50°	7860	12616	7591	12616
55°	6893	11661	6848	11661
60°	6140	10749	6273	10749
65°	5392	9770	5835	9770
70°	4233	8897	5331	8897
75°	3730	7769	4870	7769
80°	3242	6602	4785	6602
85°	2618	5298	5076	5298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	2.9
10°-20°	446.9	9.1
20°-30°	702.0	14.4
30°-40°	732.4	15.0
40°-50°	626.8	12.8
50°-60°	477.7	9.8
60°-70°	306.2	6.3
70°-80°	147.3	3.0
80°-90°	40.3	0.8
90°-100°	29.8	0.6
100°-110°	89.1	1.8
110°-120°	151.6	3.1
120°-130°	199.4	4.1
130°-140°	224.1	4.6
140°-150°	220.3	4.5
150°-160°	185.4	3.8
160°-170°	123.4	2.5
170°-180°	43.2	0.9
0°-30°	1291.9	26.4
0°-40°	2024.3	41.4
0°-60°	3128.9	64.0
0°-90°	3622.7	74.1
90°-120°	270.4	5.5
90°-150°	914.1	18.7
90°-180°	1266.0	25.9
0°-180°	4888.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1454	1454	1454	1454	1454	
5°	1727	1455	1281	1455	1727	178
15°	2454	1388	1024	1388	2454	696
25°	2529	1262	833	1262	2529	1087
35°	1097	1100	679	1100	1097	719
45°	585	884	534	884	585	460
55°	367	621	365	621	367	332
65°	212	384	229	384	212	208
75°	90	187	117	187	90	96
85°	21	43	41	43	21	25
90°	11	0	11	0	11	6
95°	28	21	28	21	28	29
105°	86	81	86	81	86	91
115°	153	153	153	153	153	151
125°	221	223	221	223	221	197
135°	289	290	289	290	289	222
145°	352	352	352	352	352	219
155°	402	402	402	402	402	185
165°	437	438	437	438	437	123
175°	454	456	454	456	454	43
180°	457	457	457	457	457	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1549.1	1551.1	1544.6	1543.6	1536.1	1534.1	1534.1	1523.7	1517.2	1508.8	1503.8
5°	1727.2	1737.2	1732.2	1720.9	1702.2	1697.9	1686.1	1667.4	1646.2	1620.1	1607.7
7.5°	1949.6	1963.2	1958.0	1940.6	1921.0	1905.3	1871.8	1840.9	1797.4	1759.3	1726.6
10°	2131.9	2117.6	2106.3	2089.5	2071.5	2042.2	2007.4	1959.4	1904.0	1860.4	1811.9
12.5°	2268.3	2266.0	2251.8	2234.5	2209.0	2181.2	2138.3	2080.0	2015.5	1952.6	1897.0
15°	2454.4	2458.1	2448.8	2430.7	2394.6	2345.4	2280.7	2256.5	2164.2	2095.8	2027.3
17.5°	2583.1	2582.4	2581.2	2556.1	2519.3	2484.3	2424.2	2360.4	2277.0	2180.5	2088.2
20°	2664.8	2658.6	2659.9	2631.9	2604.5	2564.0	2505.4	2412.7	2344.2	2232.8	2137.5
22.5°	2662.8	2661.7	2666.3	2656.7	2636.9	2605.8	2559.8	2481.4	2394.1	2281.6	2174.4
25°	2529.1	2524.1	2553.4	2561.5	2593.3	2598.8	2585.1	2542.2	2459.4	2343.6	2211.0
27.5°	2116.7	2113.9	2168.3	2236.3	2322.4	2389.4	2454.2	2485.4	2459.4	2376.5	2243.6
30°	1737.2	1795.6	1823.0	1921.4	2031.0	2161.8	2276.3	2385.3	2412.0	2376.0	2267.0
32.5°	1442.2	1493.3	1516.2	1600.7	1702.8	1855.9	2027.7	2182.1	2291.1	2318.6	2253.0
35°	1097.1	1097.7	1150.0	1187.3	1282.0	1439.6	1606.4	1813.1	2018.6	2174.2	2190.4
37.5°	875.4	878.5	910.1	947.4	1018.4	1101.7	1248.6	1420.5	1657.8	1896.8	2036.9
40°	755.9	761.4	785.1	821.9	872.9	935.8	1050.4	1212.3	1410.2	1676.1	1893.4
42.5°	679.1	688.2	700.4	728.7	760.3	819.3	911.9	1037.0	1217.0	1468.4	1719.1
45°	585.3	590.3	599.6	612.7	641.3	682.4	744.7	828.7	978.2	1180.5	1431.4
47.5°	516.3	513.7	523.5	534.1	553.2	581.1	622.9	691.5	798.1	960.4	1173.3
50°	469.4	468.8	475.7	483.8	501.8	522.4	556.7	608.3	693.0	827.5	1022.4
52.5°	425.6	428.0	432.8	442.9	456.0	472.6	503.4	540.6	613.3	729.4	891.8
55°	367.3	369.2	376.0	381.7	391.0	407.8	427.1	458.3	508.1	589.0	722.9
57.5°	318.1	317.2	323.8	325.1	335.7	349.4	364.3	388.5	424.6	484.8	575.0
60°	285.2	283.3	288.9	293.3	298.9	310.1	322.5	346.2	374.9	419.1	496.2
62.5°	255.2	254.4	258.5	262.8	267.5	277.7	288.1	306.3	329.0	366.2	427.5
65°	211.7	213.6	215.4	217.3	219.8	226.0	236.0	248.4	264.0	290.2	334.4
67.5°	166.4	168.3	168.9	172.7	178.1	182.0	188.1	199.2	209.9	232.0	257.1
70°	134.5	133.9	134.5	136.3	143.2	150.0	158.1	166.3	173.1	188.6	209.8
72.5°	115.6	114.5	116.1	116.5	119.8	121.7	126.7	134.4	143.2	153.8	169.0
75°	89.7	89.7	89.7	89.7	92.1	93.4	95.3	97.1	100.2	105.2	116.5
77.5°	66.2	66.4	67.3	67.9	68.4	69.1	70.3	72.1	73.2	75.8	80.7
80°	52.3	52.9	52.3	52.9	52.9	54.2	54.8	56.6	57.3	60.4	62.3
82.5°	39.4	39.0	39.4	40.0	40.0	41.2	41.4	42.7	42.9	44.4	46.3
85°	21.2	20.0	21.2	20.5	21.8	20.5	21.2	22.4	22.4	23.1	25.5
87.5°	7.1	8.1	7.1	7.5	7.5	7.9	7.9	7.8	8.8	8.2	8.5
90°	10.8	10.6	10.5	10.3	10.1	9.9	9.6	9.3	9.0	8.6	7.6
92.5°	14.5	14.6	14.7	14.8	14.9	14.8	14.6	14.3	14.0	13.8	13.2
95°	28.0	28.0	28.0	28.0	28.0	27.8	27.5	27.2	26.9	26.5	25.9
97.5°	43.1	43.1	43.2	43.2	43.2	43.0	42.7	42.3	41.9	41.6	41.1
100°	54.6	54.4	54.3	54.1	53.9	53.7	53.5	53.2	53.0	52.8	52.4
102.5°	66.3	66.4	66.4	66.5	66.5	66.4	66.1	65.9	65.7	65.4	64.9
105°	85.5	85.3	85.2	85.0	84.8	84.7	84.7	84.7	84.7	84.7	84.0
107.5°	105.4	105.4	105.5	105.6	105.7	105.6	105.4	105.1	104.9	104.6	104.3
110°	118.8	119.0	119.1	119.3	119.5	119.4	119.1	118.7	118.4	118.1	118.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	133.2	133.2	133.2	133.2	133.3	133.2	132.8	132.4	132.0	131.6	131.6
115°	153.0	153.0	153.1	153.2	153.3	153.3	153.2	153.1	153.0	153.0	153.1
117.5°	172.9	173.2	173.4	173.6	173.9	174.0	174.0	174.0	174.0	174.0	174.3
120°	187.0	187.2	187.4	187.5	187.7	187.8	187.9	188.0	188.1	188.1	188.5
122.5°	200.5	200.7	201.0	201.2	201.5	201.6	201.8	202.1	202.2	202.5	202.7
125°	220.8	221.1	221.4	221.7	222.0	222.4	222.7	223.0	223.3	223.6	223.8
127.5°	241.0	241.3	241.7	242.1	242.4	242.8	243.3	243.8	244.2	244.6	244.8
130°	254.1	254.8	255.3	255.9	256.4	256.8	257.1	257.5	257.8	258.1	258.3
132.5°	267.9	268.4	268.8	269.3	269.7	270.1	270.5	270.8	271.2	271.6	271.8
135°	289.4	289.5	289.7	289.9	290.0	290.3	290.6	290.9	291.2	291.5	291.6
137.5°	308.2	308.6	308.9	309.1	309.4	309.7	310.1	310.5	310.8	311.1	310.9
140°	320.6	321.2	321.7	322.3	322.8	323.1	323.2	323.3	323.4	323.4	323.4
142.5°	333.2	333.7	334.1	334.5	334.9	335.2	335.3	335.3	335.4	335.5	335.4
145°	351.5	351.8	352.1	352.4	352.8	352.9	353.0	353.1	353.2	353.2	353.0
147.5°	367.7	368.1	368.6	369.2	369.6	369.9	369.9	369.9	369.9	369.9	369.6
150°	378.0	378.5	379.0	379.5	379.9	380.2	380.2	380.2	380.2	380.2	380.0
152.5°	388.1	388.5	388.9	389.4	389.8	389.9	389.8	389.6	389.5	389.4	389.3
155°	401.7	402.3	402.8	403.4	403.9	404.1	403.8	403.5	403.1	402.8	402.7
157.5°	414.2	414.5	415.0	415.5	415.9	416.0	415.7	415.3	414.9	414.6	414.5
160°	422.2	422.5	422.8	423.1	423.4	423.4	423.0	422.6	422.2	421.8	421.8
162.5°	428.2	428.7	429.2	429.8	430.2	430.3	429.9	429.5	429.1	428.7	428.6
165°	436.9	437.4	438.0	438.6	439.1	439.2	438.7	438.2	437.8	437.3	437.3
167.5°	444.3	444.8	445.3	445.8	446.2	446.2	445.8	445.3	444.8	444.3	444.3
170°	448.1	448.6	449.2	449.7	450.3	450.3	449.7	449.2	448.6	448.1	448.1
172.5°	450.9	451.5	452.0	452.6	453.1	453.1	452.7	452.2	451.7	451.1	451.1
175°	454.2	454.7	455.3	455.8	456.4	456.4	455.9	455.4	455.0	454.5	454.5
177.5°	455.8	456.3	456.8	457.2	457.6	457.6	457.3	456.9	456.5	456.1	456.1
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1501.8	1500.3	1493.3	1485.3	1474.9	1467.9	1462.4	1459.4	1450.5	1439.6	1432.0
5°	1594.6	1575.9	1555.9	1531.7	1509.3	1486.2	1471.9	1455.1	1434.6	1411.5	1395.3
7.5°	1693.9	1657.3	1617.9	1577.2	1536.9	1500.8	1468.9	1441.6	1408.9	1375.9	1352.7
10°	1770.1	1716.6	1661.2	1604.5	1552.8	1504.3	1466.9	1430.2	1391.0	1353.0	1324.4
12.5°	1839.4	1768.9	1705.0	1635.4	1569.3	1511.2	1457.5	1414.2	1367.1	1326.6	1294.0
15°	1927.1	1854.8	1777.6	1671.7	1584.0	1510.5	1445.1	1388.5	1331.2	1281.4	1249.6
17.5°	2009.0	1900.3	1796.5	1708.3	1594.2	1502.4	1422.6	1354.9	1292.0	1239.1	1200.1
20°	2042.9	1937.6	1825.0	1712.2	1600.1	1497.5	1404.6	1329.9	1264.6	1204.8	1168.7
22.5°	2063.2	1944.1	1825.4	1704.3	1585.2	1478.5	1386.7	1304.6	1233.7	1176.9	1132.3
25°	2087.1	1945.1	1814.3	1694.8	1573.4	1457.6	1348.6	1261.5	1184.9	1124.5	1077.1
27.5°	2102.8	1935.8	1781.2	1648.4	1525.2	1409.8	1310.0	1217.6	1140.0	1076.0	1025.2
30°	2105.7	1928.3	1755.8	1612.0	1486.8	1381.0	1275.2	1186.8	1104.5	1036.6	989.4
32.5°	2109.7	1909.9	1721.4	1568.7	1440.5	1335.7	1239.8	1155.3	1071.2	1004.3	956.0
35°	2093.3	1899.7	1669.3	1493.7	1365.4	1263.9	1177.4	1099.5	1016.8	952.0	902.9
37.5°	2022.5	1859.2	1615.3	1409.3	1275.2	1181.1	1110.6	1042.7	966.9	897.0	850.6
40°	1951.3	1819.3	1573.4	1358.0	1217.9	1121.3	1057.9	1002.4	929.0	863.6	813.8
42.5°	1845.2	1765.1	1533.5	1304.2	1153.1	1060.1	1006.5	954.6	890.1	823.7	776.9
45°	1650.6	1661.2	1452.0	1218.5	1063.4	970.0	919.6	883.5	826.2	771.4	723.5
47.5°	1406.5	1505.5	1356.2	1127.2	968.9	881.3	837.2	805.6	767.1	713.3	669.6
50°	1247.1	1388.5	1279.5	1066.0	909.7	822.5	778.9	753.4	719.8	677.4	635.7
52.5°	1100.2	1252.0	1186.8	997.7	845.4	765.7	723.1	702.1	675.4	635.6	597.9
55°	897.2	1051.0	1036.1	894.7	749.0	677.4	645.1	621.4	603.3	573.5	543.6
57.5°	725.7	871.6	879.2	780.1	664.1	593.3	565.5	547.6	535.8	513.3	485.7
60°	617.7	751.5	777.7	703.0	603.3	541.1	513.7	499.3	490.0	472.0	450.8
62.5°	528.0	641.9	671.5	617.7	545.0	486.8	465.3	451.5	445.2	429.6	410.9
65°	404.1	498.8	527.4	497.5	459.5	412.8	395.4	383.6	378.0	369.2	355.5
67.5°	303.9	372.8	404.3	383.2	369.5	339.9	328.8	322.5	317.5	311.6	300.1
70°	244.1	295.1	327.5	321.9	310.7	295.1	287.0	282.7	277.7	272.7	262.8
72.5°	196.2	231.4	261.7	264.6	255.4	252.3	245.2	243.4	240.3	234.3	228.9
75°	130.2	154.4	175.5	183.7	187.4	190.5	187.4	186.8	186.2	181.2	178.1
77.5°	85.3	98.4	111.7	125.6	131.3	135.6	136.6	138.9	137.2	134.6	133.1
80°	65.4	68.5	77.8	89.7	99.0	102.7	105.2	106.5	105.8	105.2	102.7
82.5°	47.5	50.1	54.4	62.7	70.6	76.8	78.3	78.1	79.5	79.9	77.8
85°	25.5	26.1	27.4	28.7	33.0	39.8	41.7	42.9	44.2	44.2	40.5
87.5°	9.3	8.6	9.3	9.2	10.5	10.9	13.7	16.0	16.6	14.8	15.0
90°	6.6	5.5	4.4	3.6	2.8	2.0	1.2	0.4	1.2	2.0	2.8
92.5°	12.6	12.0	11.4	10.9	10.3	9.7	9.3	8.7	9.3	9.7	10.3
95°	25.3	24.6	24.0	23.4	22.9	22.3	21.7	21.2	21.7	22.3	22.9
97.5°	40.6	40.2	39.7	39.3	38.9	38.4	38.0	37.6	38.0	38.4	38.9
100°	52.0	51.6	51.2	50.7	50.2	49.7	49.3	48.8	49.3	49.7	50.2
102.5°	64.3	63.8	63.3	62.9	62.6	62.3	62.0	61.7	62.0	62.3	62.6
105°	83.3	82.5	81.8	81.4	81.3	81.1	81.0	80.8	81.0	81.1	81.3
107.5°	104.0	103.8	103.5	103.3	103.1	103.1	103.0	102.9	103.0	103.1	103.1
110°	117.8	117.6	117.5	117.3	117.2	117.0	116.8	116.7	116.8	117.0	117.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.6	131.5	131.5	131.4	131.3	131.3	131.1	131.0	131.1	131.3	131.3
115°	153.3	153.4	153.6	153.5	153.3	153.0	152.8	152.6	152.8	153.0	153.3
117.5°	174.4	174.7	174.8	174.9	174.8	174.6	174.4	174.3	174.4	174.6	174.8
120°	188.9	189.3	189.7	189.6	189.2	188.7	188.2	187.7	188.2	188.7	189.2
122.5°	202.9	203.1	203.3	203.2	202.9	202.6	202.2	201.8	202.2	202.6	202.9
125°	223.9	224.1	224.3	224.3	224.0	223.8	223.6	223.3	223.6	223.8	224.0
127.5°	244.9	245.2	245.3	245.2	244.6	244.2	243.6	243.1	243.6	244.2	244.6
130°	258.6	258.8	259.0	258.9	258.3	257.6	257.0	256.4	257.0	257.6	258.3
132.5°	272.0	272.1	272.4	272.1	271.5	270.8	270.1	269.5	270.1	270.8	271.5
135°	291.7	291.8	291.8	291.6	291.1	290.7	290.2	289.7	290.2	290.7	291.1
137.5°	310.7	310.5	310.3	310.0	309.6	309.2	308.8	308.4	308.8	309.2	309.6
140°	323.3	323.2	323.1	322.9	322.5	322.1	321.7	321.3	321.7	322.1	322.5
142.5°	335.3	335.1	334.9	334.7	334.3	333.9	333.5	333.1	333.5	333.9	334.3
145°	352.8	352.5	352.3	352.1	352.0	351.8	351.6	351.5	351.6	351.8	352.0
147.5°	369.4	369.2	368.9	368.7	368.4	368.1	367.8	367.6	367.8	368.1	368.4
150°	379.9	379.7	379.5	379.4	379.2	379.1	378.9	378.7	378.9	379.1	379.2
152.5°	389.2	389.0	389.0	388.8	388.6	388.4	388.2	387.9	388.2	388.4	388.6
155°	402.7	402.6	402.5	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
157.5°	414.5	414.5	414.4	414.4	414.5	414.6	414.7	414.8	414.7	414.6	414.5
160°	421.8	421.8	421.8	421.9	422.1	422.2	422.4	422.6	422.4	422.2	422.1
162.5°	428.6	428.5	428.5	428.6	428.7	429.0	429.2	429.4	429.2	429.0	428.7
165°	437.3	437.3	437.3	437.4	437.6	437.8	438.1	438.3	438.1	437.8	437.6
167.5°	444.2	444.1	444.0	444.2	444.5	444.8	445.1	445.4	445.1	444.8	444.5
170°	448.1	448.1	448.1	448.2	448.5	448.9	449.2	449.5	449.2	448.9	448.5
172.5°	451.1	451.1	451.1	451.3	451.7	452.0	452.3	452.7	452.3	452.0	451.7
175°	454.5	454.5	454.5	454.6	455.0	455.3	455.6	455.9	455.6	455.3	455.0
177.5°	456.1	456.1	456.1	456.3	456.5	456.8	457.0	457.3	457.0	456.8	456.5
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1429.6	1423.1	1418.6	1408.7	1402.2	1395.2	1388.2	1392.7	1392.2	1391.7	1391.7
5°	1381.6	1367.3	1354.2	1337.4	1326.8	1313.8	1303.8	1302.5	1305.0	1296.3	1291.3
7.5°	1334.0	1314.5	1295.9	1277.4	1257.7	1242.1	1232.2	1227.6	1221.2	1215.8	1210.3
10°	1300.7	1277.6	1259.6	1236.5	1215.4	1196.7	1184.9	1176.8	1172.4	1168.1	1160.0
12.5°	1266.3	1243.8	1220.8	1194.7	1174.6	1152.9	1144.0	1135.0	1126.6	1121.7	1110.6
15°	1216.0	1186.8	1162.4	1135.0	1112.6	1091.5	1079.0	1061.0	1058.4	1052.3	1041.0
17.5°	1165.5	1133.8	1100.3	1080.0	1054.7	1032.7	1013.8	1007.7	989.8	983.1	973.4
20°	1125.7	1096.5	1071.0	1044.2	1007.4	986.9	971.9	963.8	949.5	940.8	934.5
22.5°	1091.3	1061.6	1032.1	1000.8	970.6	947.5	936.6	924.0	916.2	904.0	897.2
25°	1042.3	1009.9	974.4	940.8	919.0	901.6	884.2	872.9	861.7	856.1	843.7
27.5°	985.2	951.4	918.2	892.7	865.9	848.7	833.0	823.0	809.5	800.1	793.2
30°	953.9	914.0	885.3	862.4	828.1	811.9	800.1	787.7	777.7	767.7	760.9
32.5°	917.5	881.1	854.0	825.5	799.2	781.5	766.2	755.3	746.8	737.3	730.5
35°	860.5	830.0	801.9	773.3	754.0	735.9	717.9	708.5	700.4	691.7	685.6
37.5°	808.9	780.4	753.8	726.6	702.7	688.0	673.4	666.3	655.4	649.5	643.2
40°	777.1	749.0	720.4	694.3	669.3	658.1	645.1	634.5	624.5	620.1	613.3
42.5°	742.2	714.2	690.0	661.9	641.4	626.2	614.2	602.6	595.1	588.7	584.9
45°	690.5	665.6	641.9	613.9	594.6	581.5	567.8	557.2	550.4	546.1	539.2
47.5°	640.3	615.4	591.4	567.0	548.3	533.4	519.7	512.3	503.2	497.9	493.2
50°	604.0	581.5	556.0	533.6	514.9	499.9	488.8	479.4	471.3	464.5	461.4
52.5°	570.6	546.7	524.7	503.7	484.0	467.1	456.9	447.0	440.9	433.1	429.5
55°	515.6	492.5	473.8	453.3	434.0	419.6	407.2	398.5	392.3	383.6	378.6
57.5°	463.8	443.2	420.9	403.1	383.2	371.1	360.8	349.0	341.4	334.5	329.6
60°	429.0	405.4	386.0	369.2	351.8	336.2	326.9	317.5	309.4	302.6	298.3
62.5°	392.6	371.9	353.6	335.3	319.4	305.9	295.0	287.2	280.0	275.7	271.3
65°	336.8	320.7	302.0	287.0	272.1	262.1	253.4	246.5	241.6	238.4	234.7
67.5°	285.5	269.8	253.5	238.8	228.9	221.3	215.6	209.7	207.2	203.2	200.7
70°	252.2	236.0	221.7	210.5	200.5	194.9	191.2	186.8	184.3	179.4	176.8
72.5°	215.8	204.1	193.8	184.6	176.6	171.5	166.8	161.4	157.4	151.9	149.4
75°	170.0	159.4	151.3	145.0	140.1	133.2	126.4	120.8	118.9	117.1	116.5
77.5°	125.9	119.1	113.3	108.1	101.9	96.9	95.4	94.1	93.8	92.8	92.8
80°	99.0	92.8	88.4	82.1	78.4	78.4	78.4	77.2	77.8	77.8	77.8
82.5°	73.6	67.9	65.5	63.3	62.5	63.0	63.0	63.3	62.9	63.8	63.4
85°	37.9	38.6	39.8	39.2	39.8	39.8	41.1	40.5	41.1	39.8	41.1
87.5°	14.7	16.3	17.0	17.7	18.5	18.1	18.7	18.8	19.3	19.4	19.5
90°	3.6	4.4	5.5	6.6	7.6	8.6	9.0	9.3	9.6	9.9	10.1
92.5°	10.9	11.4	12.0	12.6	13.2	13.8	14.0	14.3	14.6	14.8	14.9
95°	23.4	24.0	24.6	25.3	25.9	26.5	26.9	27.2	27.5	27.8	28.0
97.5°	39.3	39.7	40.2	40.6	41.1	41.6	41.9	42.3	42.7	43.0	43.2
100°	50.7	51.2	51.6	52.0	52.4	52.8	53.0	53.2	53.5	53.7	53.9
102.5°	62.9	63.3	63.8	64.3	64.9	65.4	65.7	65.9	66.1	66.4	66.5
105°	81.4	81.8	82.5	83.3	84.0	84.7	84.7	84.7	84.7	84.7	84.8
107.5°	103.3	103.5	103.8	104.0	104.3	104.6	104.9	105.1	105.4	105.6	105.7
110°	117.3	117.5	117.6	117.8	118.0	118.1	118.4	118.7	119.1	119.4	119.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	131.4	131.5	131.5	131.6	131.6	131.6	132.0	132.4	132.8	133.2	133.3
115°	153.5	153.6	153.4	153.3	153.1	153.0	153.0	153.1	153.2	153.3	153.3
117.5°	174.9	174.8	174.7	174.4	174.3	174.0	174.0	174.0	174.0	174.0	173.9
120°	189.6	189.7	189.3	188.9	188.5	188.1	188.1	188.0	187.9	187.8	187.7
122.5°	203.2	203.3	203.1	202.9	202.7	202.5	202.2	202.1	201.8	201.6	201.5
125°	224.3	224.3	224.1	223.9	223.8	223.6	223.3	223.0	222.7	222.4	222.0
127.5°	245.2	245.3	245.2	244.9	244.8	244.6	244.2	243.8	243.3	242.8	242.4
130°	258.9	259.0	258.8	258.6	258.3	258.1	257.8	257.5	257.1	256.8	256.4
132.5°	272.1	272.4	272.1	272.0	271.8	271.6	271.2	270.8	270.5	270.1	269.7
135°	291.6	291.8	291.8	291.7	291.6	291.5	291.2	290.9	290.6	290.3	290.0
137.5°	310.0	310.3	310.5	310.7	310.9	311.1	310.8	310.5	310.1	309.7	309.4
140°	322.9	323.1	323.2	323.3	323.4	323.4	323.4	323.3	323.2	323.1	322.8
142.5°	334.7	334.9	335.1	335.3	335.4	335.5	335.4	335.3	335.3	335.2	334.9
145°	352.1	352.3	352.5	352.8	353.0	353.2	353.2	353.1	353.0	352.9	352.8
147.5°	368.7	368.9	369.2	369.4	369.6	369.9	369.9	369.9	369.9	369.9	369.6
150°	379.4	379.5	379.7	379.9	380.0	380.2	380.2	380.2	380.2	380.2	379.9
152.5°	388.8	389.0	389.0	389.2	389.3	389.4	389.5	389.6	389.8	389.9	389.8
155°	402.4	402.5	402.6	402.7	402.7	402.8	403.1	403.5	403.8	404.1	403.9
157.5°	414.4	414.4	414.5	414.5	414.5	414.6	414.9	415.3	415.7	416.0	415.9
160°	421.9	421.8	421.8	421.8	421.8	421.8	422.2	422.6	423.0	423.4	423.4
162.5°	428.6	428.5	428.5	428.6	428.6	428.7	429.1	429.5	429.9	430.3	430.2
165°	437.4	437.3	437.3	437.3	437.3	437.3	437.8	438.2	438.7	439.2	439.1
167.5°	444.2	444.0	444.1	444.2	444.3	444.3	444.8	445.3	445.8	446.2	446.2
170°	448.2	448.1	448.1	448.1	448.1	448.1	448.6	449.2	449.7	450.3	450.3
172.5°	451.3	451.1	451.1	451.1	451.1	451.1	451.7	452.2	452.7	453.1	453.1
175°	454.6	454.5	454.5	454.5	454.5	454.5	455.0	455.4	455.9	456.4	456.4
177.5°	456.3	456.1	456.1	456.1	456.1	456.1	456.5	456.9	457.3	457.6	457.6
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1385.8	1385.2	1385.8	1383.7	1385.8	1385.2	1385.8	1391.7	1391.7	1392.2	1392.7
5°	1289.4	1288.9	1287.0	1281.4	1287.0	1288.9	1289.4	1291.3	1296.3	1305.0	1302.5
7.5°	1205.4	1204.5	1199.0	1199.2	1199.0	1204.5	1205.4	1210.3	1215.8	1221.2	1227.6
10°	1155.6	1156.2	1148.7	1144.4	1148.7	1156.2	1155.6	1160.0	1168.1	1172.4	1176.8
12.5°	1107.3	1104.5	1098.4	1093.6	1098.4	1104.5	1107.3	1110.6	1121.7	1126.6	1135.0
15°	1043.5	1037.3	1022.4	1023.6	1022.4	1037.3	1043.5	1041.0	1052.3	1058.4	1061.0
17.5°	968.4	963.8	963.6	954.9	963.6	963.8	968.4	973.4	983.1	989.8	1007.7
20°	924.6	921.5	922.7	914.0	922.7	921.5	924.6	934.5	940.8	949.5	963.8
22.5°	890.3	887.1	881.9	879.2	881.9	887.1	890.3	897.2	904.0	916.2	924.0
25°	840.0	835.0	830.0	833.1	830.0	835.0	840.0	843.7	856.1	861.7	872.9
27.5°	789.6	785.9	780.9	780.3	780.9	785.9	789.6	793.2	800.1	809.5	823.0
30°	757.7	754.0	751.5	748.4	751.5	754.0	757.7	760.9	767.7	777.7	787.7
32.5°	725.4	724.6	720.2	719.5	720.2	724.6	725.4	730.5	737.3	746.8	755.3
35°	683.0	679.3	678.0	678.7	678.0	679.3	683.0	685.6	691.7	700.4	708.5
37.5°	642.8	637.8	635.6	633.3	635.6	637.8	642.8	643.2	649.5	655.4	666.3
40°	613.9	609.0	607.7	606.4	607.7	609.0	613.9	613.3	620.1	624.5	634.5
42.5°	581.5	579.6	578.8	576.6	578.8	579.6	581.5	584.9	588.7	595.1	602.6
45°	537.3	536.7	533.0	534.2	533.0	536.7	537.3	539.2	546.1	550.4	557.2
47.5°	490.8	488.0	485.4	487.1	485.4	488.0	490.8	493.2	497.9	503.2	512.3
50°	458.9	457.6	452.0	453.3	452.0	457.6	458.9	461.4	464.5	471.3	479.4
52.5°	427.0	422.2	420.2	419.4	420.2	422.2	427.0	429.5	433.1	440.9	447.0
55°	374.2	368.6	366.1	364.9	366.1	368.6	374.2	378.6	383.6	392.3	398.5
57.5°	322.4	320.9	318.9	320.3	318.9	320.9	322.4	329.6	334.5	341.4	349.0
60°	292.0	292.0	292.0	291.4	292.0	292.0	292.0	298.3	302.6	309.4	317.5
62.5°	268.6	267.1	266.6	267.5	266.6	267.1	268.6	271.3	275.7	280.0	287.2
65°	232.9	232.3	229.7	229.1	229.7	232.3	232.9	234.7	238.4	241.6	246.5
67.5°	199.2	196.9	196.1	195.3	196.1	196.9	199.2	200.7	203.2	207.2	209.7
70°	173.7	172.5	168.7	169.4	168.7	172.5	173.7	176.8	179.4	184.3	186.8
72.5°	146.3	145.0	144.3	143.5	144.3	145.0	146.3	149.4	151.9	157.4	161.4
75°	115.8	115.2	114.5	117.1	114.5	115.2	115.8	116.5	117.1	118.9	120.8
77.5°	92.8	92.8	93.2	92.1	93.2	92.8	92.8	92.8	92.8	93.8	94.1
80°	77.8	77.8	77.2	77.2	77.2	77.8	77.8	77.8	77.8	77.8	77.2
82.5°	62.4	62.9	63.3	62.3	63.3	62.9	62.4	63.4	63.8	62.9	63.3
85°	41.1	40.5	41.7	41.1	41.7	40.5	41.1	41.1	39.8	41.1	40.5
87.5°	20.5	19.5	19.6	20.1	19.6	19.5	20.5	19.5	19.4	19.3	18.8
90°	10.3	10.5	10.6	10.8	10.6	10.5	10.3	10.1	9.9	9.6	9.3
92.5°	14.8	14.7	14.6	14.5	14.6	14.7	14.8	14.9	14.8	14.6	14.3
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.8	27.5	27.2
97.5°	43.2	43.2	43.1	43.1	43.1	43.2	43.2	43.2	43.0	42.7	42.3
100°	54.1	54.3	54.4	54.6	54.4	54.3	54.1	53.9	53.7	53.5	53.2
102.5°	66.5	66.4	66.4	66.3	66.4	66.4	66.5	66.5	66.4	66.1	65.9
105°	85.0	85.2	85.3	85.5	85.3	85.2	85.0	84.8	84.7	84.7	84.7
107.5°	105.6	105.5	105.4	105.4	105.4	105.5	105.6	105.7	105.6	105.4	105.1
110°	119.3	119.1	119.0	118.8	119.0	119.1	119.3	119.5	119.4	119.1	118.7



TEST NUMBER: P332471-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.3	133.2	132.8	132.4
115°	153.2	153.1	153.0	153.0	153.0	153.1	153.2	153.3	153.3	153.2	153.1
117.5°	173.6	173.4	173.2	172.9	173.2	173.4	173.6	173.9	174.0	174.0	174.0
120°	187.5	187.4	187.2	187.0	187.2	187.4	187.5	187.7	187.8	187.9	188.0
122.5°	201.2	201.0	200.7	200.5	200.7	201.0	201.2	201.5	201.6	201.8	202.1
125°	221.7	221.4	221.1	220.8	221.1	221.4	221.7	222.0	222.4	222.7	223.0
127.5°	242.1	241.7	241.3	241.0	241.3	241.7	242.1	242.4	242.8	243.3	243.8
130°	255.9	255.3	254.8	254.1	254.8	255.3	255.9	256.4	256.8	257.1	257.5
132.5°	269.3	268.8	268.4	267.9	268.4	268.8	269.3	269.7	270.1	270.5	270.8
135°	289.9	289.7	289.5	289.4	289.5	289.7	289.9	290.0	290.3	290.6	290.9
137.5°	309.1	308.9	308.6	308.2	308.6	308.9	309.1	309.4	309.7	310.1	310.5
140°	322.3	321.7	321.2	320.6	321.2	321.7	322.3	322.8	323.1	323.2	323.3
142.5°	334.5	334.1	333.7	333.2	333.7	334.1	334.5	334.9	335.2	335.3	335.3
145°	352.4	352.1	351.8	351.5	351.8	352.1	352.4	352.8	352.9	353.0	353.1
147.5°	369.2	368.6	368.1	367.7	368.1	368.6	369.2	369.6	369.9	369.9	369.9
150°	379.5	379.0	378.5	378.0	378.5	379.0	379.5	379.9	380.2	380.2	380.2
152.5°	389.4	388.9	388.5	388.1	388.5	388.9	389.4	389.8	389.9	389.8	389.6
155°	403.4	402.8	402.3	401.7	402.3	402.8	403.4	403.9	404.1	403.8	403.5
157.5°	415.5	415.0	414.5	414.2	414.5	415.0	415.5	415.9	416.0	415.7	415.3
160°	423.1	422.8	422.5	422.2	422.5	422.8	423.1	423.4	423.4	423.0	422.6
162.5°	429.8	429.2	428.7	428.2	428.7	429.2	429.8	430.2	430.3	429.9	429.5
165°	438.6	438.0	437.4	436.9	437.4	438.0	438.6	439.1	439.2	438.7	438.2
167.5°	445.8	445.3	444.8	444.3	444.8	445.3	445.8	446.2	446.2	445.8	445.3
170°	449.7	449.2	448.6	448.1	448.6	449.2	449.7	450.3	450.3	449.7	449.2
172.5°	452.6	452.0	451.5	450.9	451.5	452.0	452.6	453.1	453.1	452.7	452.2
175°	455.8	455.3	454.7	454.2	454.7	455.3	455.8	456.4	456.4	455.9	455.4
177.5°	457.2	456.8	456.3	455.8	456.3	456.8	457.2	457.6	457.6	457.3	456.9
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332471-927

CATALOG NUMBER: S123RDIW-S1165D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1388.2	1395.2	1402.2	1408.7	1418.6	1423.1	1429.6	1432.0	1439.6	1450.5	1459.4
5°	1303.8	1313.8	1326.8	1337.4	1354.2	1367.3	1381.6	1395.3	1411.5	1434.6	1455.1
7.5°	1232.2	1242.1	1257.7	1277.4	1295.9	1314.5	1334.0	1352.7	1375.9	1408.9	1441.6
10°	1184.9	1196.7	1215.4	1236.5	1259.6	1277.6	1300.7	1324.4	1353.0	1391.0	1430.2
12.5°	1144.0	1152.9	1174.6	1194.7	1220.8	1243.8	1266.3	1294.0	1326.6	1367.1	1414.2
15°	1079.0	1091.5	1112.6	1135.0	1162.4	1186.8	1216.0	1249.6	1281.4	1331.2	1388.5
17.5°	1013.8	1032.7	1054.7	1080.0	1100.3	1133.8	1165.5	1200.1	1239.1	1292.0	1354.9
20°	971.9	986.9	1007.4	1044.2	1071.0	1096.5	1125.7	1168.7	1204.8	1264.6	1329.9
22.5°	936.6	947.5	970.6	1000.8	1032.1	1061.6	1091.3	1132.3	1176.9	1233.7	1304.6
25°	884.2	901.6	919.0	940.8	974.4	1009.9	1042.3	1077.1	1124.5	1184.9	1261.5
27.5°	833.0	848.7	865.9	892.7	918.2	951.4	985.2	1025.2	1076.0	1140.0	1217.6
30°	800.1	811.9	828.1	862.4	885.3	914.0	953.9	989.4	1036.6	1104.5	1186.8
32.5°	766.2	781.5	799.2	825.5	854.0	881.1	917.5	956.0	1004.3	1071.2	1155.3
35°	717.9	735.9	754.0	773.3	801.9	830.0	860.5	902.9	952.0	1016.8	1099.5
37.5°	673.4	688.0	702.7	726.6	753.8	780.4	808.9	850.6	897.0	966.9	1042.7
40°	645.1	658.1	669.3	694.3	720.4	749.0	777.1	813.8	863.6	929.0	1002.4
42.5°	614.2	626.2	641.4	661.9	690.0	714.2	742.2	776.9	823.7	890.1	954.6
45°	567.8	581.5	594.6	613.9	641.9	665.6	690.5	723.5	771.4	826.2	883.5
47.5°	519.7	533.4	548.3	567.0	591.4	615.4	640.3	669.6	713.3	767.1	805.6
50°	488.8	499.9	514.9	533.6	556.0	581.5	604.0	635.7	677.4	719.8	753.4
52.5°	456.9	467.1	484.0	503.7	524.7	546.7	570.6	597.9	635.6	675.4	702.1
55°	407.2	419.6	434.0	453.3	473.8	492.5	515.6	543.6	573.5	603.3	621.4
57.5°	360.8	371.1	383.2	403.1	420.9	443.2	463.8	485.7	513.3	535.8	547.6
60°	326.9	336.2	351.8	369.2	386.0	405.4	429.0	450.8	472.0	490.0	499.3
62.5°	295.0	305.9	319.4	335.3	353.6	371.9	392.6	410.9	429.6	445.2	451.5
65°	253.4	262.1	272.1	287.0	302.0	320.7	336.8	355.5	369.2	378.0	383.6
67.5°	215.6	221.3	228.9	238.8	253.5	269.8	285.5	300.1	311.6	317.5	322.5
70°	191.2	194.9	200.5	210.5	221.7	236.0	252.2	262.8	272.7	277.7	282.7
72.5°	166.8	171.5	176.6	184.6	193.8	204.1	215.8	228.9	234.3	240.3	243.4
75°	126.4	133.2	140.1	145.0	151.3	159.4	170.0	178.1	181.2	186.2	186.8
77.5°	95.4	96.9	101.9	108.1	113.3	119.1	125.9	133.1	134.6	137.2	138.9
80°	78.4	78.4	78.4	82.1	88.4	92.8	99.0	102.7	105.2	105.8	106.5
82.5°	63.0	63.0	62.5	63.3	65.5	67.9	73.6	77.8	79.9	79.5	78.1
85°	41.1	39.8	39.8	39.2	39.8	38.6	37.9	40.5	44.2	44.2	42.9
87.5°	18.7	18.1	18.5	17.7	17.0	16.3	14.7	15.0	14.8	16.6	16.0
90°	9.0	8.6	7.6	6.6	5.5	4.4	3.6	2.8	2.0	1.2	0.4
92.5°	14.0	13.8	13.2	12.6	12.0	11.4	10.9	10.3	9.7	9.3	8.7
95°	26.9	26.5	25.9	25.3	24.6	24.0	23.4	22.9	22.3	21.7	21.2
97.5°	41.9	41.6	41.1	40.6	40.2	39.7	39.3	38.9	38.4	38.0	37.6
100°	53.0	52.8	52.4	52.0	51.6	51.2	50.7	50.2	49.7	49.3	48.8
102.5°	65.7	65.4	64.9	64.3	63.8	63.3	62.9	62.6	62.3	62.0	61.7
105°	84.7	84.7	84.0	83.3	82.5	81.8	81.4	81.3	81.1	81.0	80.8
107.5°	104.9	104.6	104.3	104.0	103.8	103.5	103.3	103.1	103.1	103.0	102.9
110°	118.4	118.1	118.0	117.8	117.6	117.5	117.3	117.2	117.0	116.8	116.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	132.0	131.6	131.6	131.6	131.5	131.5	131.4	131.3	131.3	131.1	131.0
115°	153.0	153.0	153.1	153.3	153.4	153.6	153.5	153.3	153.0	152.8	152.6
117.5°	174.0	174.0	174.3	174.4	174.7	174.8	174.9	174.8	174.6	174.4	174.3
120°	188.1	188.1	188.5	188.9	189.3	189.7	189.6	189.2	188.7	188.2	187.7
122.5°	202.2	202.5	202.7	202.9	203.1	203.3	203.2	202.9	202.6	202.2	201.8
125°	223.3	223.6	223.8	223.9	224.1	224.3	224.3	224.0	223.8	223.6	223.3
127.5°	244.2	244.6	244.8	244.9	245.2	245.3	245.2	244.6	244.2	243.6	243.1
130°	257.8	258.1	258.3	258.6	258.8	259.0	258.9	258.3	257.6	257.0	256.4
132.5°	271.2	271.6	271.8	272.0	272.1	272.4	272.1	271.5	270.8	270.1	269.5
135°	291.2	291.5	291.6	291.7	291.8	291.8	291.6	291.1	290.7	290.2	289.7
137.5°	310.8	311.1	310.9	310.7	310.5	310.3	310.0	309.6	309.2	308.8	308.4
140°	323.4	323.4	323.4	323.3	323.2	323.1	322.9	322.5	322.1	321.7	321.3
142.5°	335.4	335.5	335.4	335.3	335.1	334.9	334.7	334.3	333.9	333.5	333.1
145°	353.2	353.2	353.0	352.8	352.5	352.3	352.1	352.0	351.8	351.6	351.5
147.5°	369.9	369.9	369.6	369.4	369.2	368.9	368.7	368.4	368.1	367.8	367.6
150°	380.2	380.2	380.0	379.9	379.7	379.5	379.4	379.2	379.1	378.9	378.7
152.5°	389.5	389.4	389.3	389.2	389.0	389.0	388.8	388.6	388.4	388.2	387.9
155°	403.1	402.8	402.7	402.7	402.6	402.5	402.4	402.4	402.4	402.4	402.4
157.5°	414.9	414.6	414.5	414.5	414.5	414.4	414.4	414.5	414.6	414.7	414.8
160°	422.2	421.8	421.8	421.8	421.8	421.8	421.9	422.1	422.2	422.4	422.6
162.5°	429.1	428.7	428.6	428.6	428.5	428.5	428.6	428.7	429.0	429.2	429.4
165°	437.8	437.3	437.3	437.3	437.3	437.3	437.4	437.6	437.8	438.1	438.3
167.5°	444.8	444.3	444.3	444.2	444.1	444.0	444.2	444.5	444.8	445.1	445.4
170°	448.6	448.1	448.1	448.1	448.1	448.1	448.2	448.5	448.9	449.2	449.5
172.5°	451.7	451.1	451.1	451.1	451.1	451.1	451.3	451.7	452.0	452.3	452.7
175°	455.0	454.5	454.5	454.5	454.5	454.5	454.6	455.0	455.3	455.6	455.9
177.5°	456.5	456.1	456.1	456.1	456.1	456.1	456.3	456.5	456.8	457.0	457.3
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332471-927

CATALOG NUMBER: S123RDIW-S1165D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1462.4	1467.9	1474.9	1485.3	1493.3	1500.3	1501.8	1503.8	1508.8	1517.2	1523.7
5°	1471.9	1486.2	1509.3	1531.7	1555.9	1575.9	1594.6	1607.7	1620.1	1646.2	1667.4
7.5°	1468.9	1500.8	1536.9	1577.2	1617.9	1657.3	1693.9	1726.6	1759.3	1797.4	1840.9
10°	1466.9	1504.3	1552.8	1604.5	1661.2	1716.6	1770.1	1811.9	1860.4	1904.0	1959.4
12.5°	1457.5	1511.2	1569.3	1635.4	1705.0	1768.9	1839.4	1897.0	1952.6	2015.5	2080.0
15°	1445.1	1510.5	1584.0	1671.7	1777.6	1854.8	1927.1	2027.3	2095.8	2164.2	2256.5
17.5°	1422.6	1502.4	1594.2	1708.3	1796.5	1900.3	2009.0	2088.2	2180.5	2277.0	2360.4
20°	1404.6	1497.5	1600.1	1712.2	1825.0	1937.6	2042.9	2137.5	2232.8	2344.2	2412.7
22.5°	1386.7	1478.5	1585.2	1704.3	1825.4	1944.1	2063.2	2174.4	2281.6	2394.1	2481.4
25°	1348.6	1457.6	1573.4	1694.8	1814.3	1945.1	2087.1	2211.0	2343.6	2459.4	2542.2
27.5°	1310.0	1409.8	1525.2	1648.4	1781.2	1935.8	2102.8	2243.6	2376.5	2459.4	2485.4
30°	1275.2	1381.0	1486.8	1612.0	1755.8	1928.3	2105.7	2267.0	2376.0	2412.0	2385.3
32.5°	1239.8	1335.7	1440.5	1568.7	1721.4	1909.9	2109.7	2253.0	2318.6	2291.1	2182.1
35°	1177.4	1263.9	1365.4	1493.7	1669.3	1899.7	2093.3	2190.4	2174.2	2018.6	1813.1
37.5°	1110.6	1181.1	1275.2	1409.3	1615.3	1859.2	2022.5	2036.9	1896.8	1657.8	1420.5
40°	1057.9	1121.3	1217.9	1358.0	1573.4	1819.3	1951.3	1893.4	1676.1	1410.2	1212.3
42.5°	1006.5	1060.1	1153.1	1304.2	1533.5	1765.1	1845.2	1719.1	1468.4	1217.0	1037.0
45°	919.6	970.0	1063.4	1218.5	1452.0	1661.2	1650.6	1431.4	1180.5	978.2	828.7
47.5°	837.2	881.3	968.9	1127.2	1356.2	1505.5	1406.5	1173.3	960.4	798.1	691.5
50°	778.9	822.5	909.7	1066.0	1279.5	1388.5	1247.1	1022.4	827.5	693.0	608.3
52.5°	723.1	765.7	845.4	997.7	1186.8	1252.0	1100.2	891.8	729.4	613.3	540.6
55°	645.1	677.4	749.0	894.7	1036.1	1051.0	897.2	722.9	589.0	508.1	458.3
57.5°	565.5	593.3	664.1	780.1	879.2	871.6	725.7	575.0	484.8	424.6	388.5
60°	513.7	541.1	603.3	703.0	777.7	751.5	617.7	496.2	419.1	374.9	346.2
62.5°	465.3	486.8	545.0	617.7	671.5	641.9	528.0	427.5	366.2	329.0	306.3
65°	395.4	412.8	459.5	497.5	527.4	498.8	404.1	334.4	290.2	264.0	248.4
67.5°	328.8	339.9	369.5	383.2	404.3	372.8	303.9	257.1	232.0	209.9	199.2
70°	287.0	295.1	310.7	321.9	327.5	295.1	244.1	209.8	188.6	173.1	166.3
72.5°	245.2	252.3	255.4	264.6	261.7	231.4	196.2	169.0	153.8	143.2	134.4
75°	187.4	190.5	187.4	183.7	175.5	154.4	130.2	116.5	105.2	100.2	97.1
77.5°	136.6	135.6	131.3	125.6	111.7	98.4	85.3	80.7	75.8	73.2	72.1
80°	105.2	102.7	99.0	89.7	77.8	68.5	65.4	62.3	60.4	57.3	56.6
82.5°	78.3	76.8	70.6	62.7	54.4	50.1	47.5	46.3	44.4	42.9	42.7
85°	41.7	39.8	33.0	28.7	27.4	26.1	25.5	25.5	23.1	22.4	22.4
87.5°	13.7	10.9	10.5	9.2	9.3	8.6	9.3	8.5	8.2	8.8	7.8
90°	1.2	2.0	2.8	3.6	4.4	5.5	6.6	7.6	8.6	9.0	9.3
92.5°	9.3	9.7	10.3	10.9	11.4	12.0	12.6	13.2	13.8	14.0	14.3
95°	21.7	22.3	22.9	23.4	24.0	24.6	25.3	25.9	26.5	26.9	27.2
97.5°	38.0	38.4	38.9	39.3	39.7	40.2	40.6	41.1	41.6	41.9	42.3
100°	49.3	49.7	50.2	50.7	51.2	51.6	52.0	52.4	52.8	53.0	53.2
102.5°	62.0	62.3	62.6	62.9	63.3	63.8	64.3	64.9	65.4	65.7	65.9
105°	81.0	81.1	81.3	81.4	81.8	82.5	83.3	84.0	84.7	84.7	84.7
107.5°	103.0	103.1	103.1	103.3	103.5	103.8	104.0	104.3	104.6	104.9	105.1
110°	116.8	117.0	117.2	117.3	117.5	117.6	117.8	118.0	118.1	118.4	118.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	131.1	131.3	131.3	131.4	131.5	131.5	131.6	131.6	131.6	132.0	132.4
115°	152.8	153.0	153.3	153.5	153.6	153.4	153.3	153.1	153.0	153.0	153.1
117.5°	174.4	174.6	174.8	174.9	174.8	174.7	174.4	174.3	174.0	174.0	174.0
120°	188.2	188.7	189.2	189.6	189.7	189.3	188.9	188.5	188.1	188.1	188.0
122.5°	202.2	202.6	202.9	203.2	203.3	203.1	202.9	202.7	202.5	202.2	202.1
125°	223.6	223.8	224.0	224.3	224.3	224.1	223.9	223.8	223.6	223.3	223.0
127.5°	243.6	244.2	244.6	245.2	245.3	245.2	244.9	244.8	244.6	244.2	243.8
130°	257.0	257.6	258.3	258.9	259.0	258.8	258.6	258.3	258.1	257.8	257.5
132.5°	270.1	270.8	271.5	272.1	272.4	272.1	272.0	271.8	271.6	271.2	270.8
135°	290.2	290.7	291.1	291.6	291.8	291.8	291.7	291.6	291.5	291.2	290.9
137.5°	308.8	309.2	309.6	310.0	310.3	310.5	310.7	310.9	311.1	310.8	310.5
140°	321.7	322.1	322.5	322.9	323.1	323.2	323.3	323.4	323.4	323.4	323.3
142.5°	333.5	333.9	334.3	334.7	334.9	335.1	335.3	335.4	335.5	335.4	335.3
145°	351.6	351.8	352.0	352.1	352.3	352.5	352.8	353.0	353.2	353.2	353.1
147.5°	367.8	368.1	368.4	368.7	368.9	369.2	369.4	369.6	369.9	369.9	369.9
150°	378.9	379.1	379.2	379.4	379.5	379.7	379.9	380.0	380.2	380.2	380.2
152.5°	388.2	388.4	388.6	388.8	389.0	389.0	389.2	389.3	389.4	389.5	389.6
155°	402.4	402.4	402.4	402.4	402.5	402.6	402.7	402.7	402.8	403.1	403.5
157.5°	414.7	414.6	414.5	414.4	414.4	414.5	414.5	414.5	414.6	414.9	415.3
160°	422.4	422.2	422.1	421.9	421.8	421.8	421.8	421.8	421.8	422.2	422.6
162.5°	429.2	429.0	428.7	428.6	428.5	428.5	428.6	428.6	428.7	429.1	429.5
165°	438.1	437.8	437.6	437.4	437.3	437.3	437.3	437.3	437.3	437.8	438.2
167.5°	445.1	444.8	444.5	444.2	444.0	444.1	444.2	444.3	444.3	444.8	445.3
170°	449.2	448.9	448.5	448.2	448.1	448.1	448.1	448.1	448.1	448.6	449.2
172.5°	452.3	452.0	451.7	451.3	451.1	451.1	451.1	451.1	451.1	451.7	452.2
175°	455.6	455.3	455.0	454.6	454.5	454.5	454.5	454.5	454.5	455.0	455.4
177.5°	457.0	456.8	456.5	456.3	456.1	456.1	456.1	456.1	456.1	456.5	456.9
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1534.1	1534.1	1536.1	1543.6	1544.6	1551.1	1549.1
5°	1686.1	1697.9	1702.2	1720.9	1732.2	1737.2	1727.2
7.5°	1871.8	1905.3	1921.0	1940.6	1958.0	1963.2	1949.6
10°	2007.4	2042.2	2071.5	2089.5	2106.3	2117.6	2131.9
12.5°	2138.3	2181.2	2209.0	2234.5	2251.8	2266.0	2268.3
15°	2280.7	2345.4	2394.6	2430.7	2448.8	2458.1	2454.4
17.5°	2424.2	2484.3	2519.3	2556.1	2581.2	2582.4	2583.1
20°	2505.4	2564.0	2604.5	2631.9	2659.9	2658.6	2664.8
22.5°	2559.8	2605.8	2636.9	2656.7	2666.3	2661.7	2662.8
25°	2585.1	2598.8	2593.3	2561.5	2553.4	2524.1	2529.1
27.5°	2454.2	2389.4	2322.4	2236.3	2168.3	2113.9	2116.7
30°	2276.3	2161.8	2031.0	1921.4	1823.0	1795.6	1737.2
32.5°	2027.7	1855.9	1702.8	1600.7	1516.2	1493.3	1442.2
35°	1606.4	1439.6	1282.0	1187.3	1150.0	1097.7	1097.1
37.5°	1248.6	1101.7	1018.4	947.4	910.1	878.5	875.4
40°	1050.4	935.8	872.9	821.9	785.1	761.4	755.9
42.5°	911.9	819.3	760.3	728.7	700.4	688.2	679.1
45°	744.7	682.4	641.3	612.7	599.6	590.3	585.3
47.5°	622.9	581.1	553.2	534.1	523.5	513.7	516.3
50°	556.7	522.4	501.8	483.8	475.7	468.8	469.4
52.5°	503.4	472.6	456.0	442.9	432.8	428.0	425.6
55°	427.1	407.8	391.0	381.7	376.0	369.2	367.3
57.5°	364.3	349.4	335.7	325.1	323.8	317.2	318.1
60°	322.5	310.1	298.9	293.3	288.9	283.3	285.2
62.5°	288.1	277.7	267.5	262.8	258.5	254.4	255.2
65°	236.0	226.0	219.8	217.3	215.4	213.6	211.7
67.5°	188.1	182.0	178.1	172.7	168.9	168.3	166.4
70°	158.1	150.0	143.2	136.3	134.5	133.9	134.5
72.5°	126.7	121.7	119.8	116.5	116.1	114.5	115.6
75°	95.3	93.4	92.1	89.7	89.7	89.7	89.7
77.5°	70.3	69.1	68.4	67.9	67.3	66.4	66.2
80°	54.8	54.2	52.9	52.9	52.3	52.9	52.3
82.5°	41.4	41.2	40.0	40.0	39.4	39.0	39.4
85°	21.2	20.5	21.8	20.5	21.2	20.0	21.2
87.5°	7.9	7.9	7.5	7.5	7.1	8.1	7.1
90°	9.6	9.9	10.1	10.3	10.5	10.6	10.8
92.5°	14.6	14.8	14.9	14.8	14.7	14.6	14.5
95°	27.5	27.8	28.0	28.0	28.0	28.0	28.0
97.5°	42.7	43.0	43.2	43.2	43.2	43.1	43.1
100°	53.5	53.7	53.9	54.1	54.3	54.4	54.6
102.5°	66.1	66.4	66.5	66.5	66.4	66.4	66.3
105°	84.7	84.7	84.8	85.0	85.2	85.3	85.5
107.5°	105.4	105.6	105.7	105.6	105.5	105.4	105.4
110°	119.1	119.4	119.5	119.3	119.1	119.0	118.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	132.8	133.2	133.3	133.2	133.2	133.2	133.2
115°	153.2	153.3	153.3	153.2	153.1	153.0	153.0
117.5°	174.0	174.0	173.9	173.6	173.4	173.2	172.9
120°	187.9	187.8	187.7	187.5	187.4	187.2	187.0
122.5°	201.8	201.6	201.5	201.2	201.0	200.7	200.5
125°	222.7	222.4	222.0	221.7	221.4	221.1	220.8
127.5°	243.3	242.8	242.4	242.1	241.7	241.3	241.0
130°	257.1	256.8	256.4	255.9	255.3	254.8	254.1
132.5°	270.5	270.1	269.7	269.3	268.8	268.4	267.9
135°	290.6	290.3	290.0	289.9	289.7	289.5	289.4
137.5°	310.1	309.7	309.4	309.1	308.9	308.6	308.2
140°	323.2	323.1	322.8	322.3	321.7	321.2	320.6
142.5°	335.3	335.2	334.9	334.5	334.1	333.7	333.2
145°	353.0	352.9	352.8	352.4	352.1	351.8	351.5
147.5°	369.9	369.9	369.6	369.2	368.6	368.1	367.7
150°	380.2	380.2	379.9	379.5	379.0	378.5	378.0
152.5°	389.8	389.9	389.8	389.4	388.9	388.5	388.1
155°	403.8	404.1	403.9	403.4	402.8	402.3	401.7
157.5°	415.7	416.0	415.9	415.5	415.0	414.5	414.2
160°	423.0	423.4	423.4	423.1	422.8	422.5	422.2
162.5°	429.9	430.3	430.2	429.8	429.2	428.7	428.2
165°	438.7	439.2	439.1	438.6	438.0	437.4	436.9
167.5°	445.8	446.2	446.2	445.8	445.3	444.8	444.3
170°	449.7	450.3	450.3	449.7	449.2	448.6	448.1
172.5°	452.7	453.1	453.1	452.6	452.0	451.5	450.9
175°	455.9	456.4	456.4	455.8	455.3	454.7	454.2
177.5°	457.3	457.6	457.6	457.2	456.8	456.3	455.8
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)