

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: P331786-930

Luminaire Tested: **S122RDIW-S485D435U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331786-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S485D435U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2740.0 lumens
Efficiency: N/A
Efficacy: 90.7 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: General Diffuse

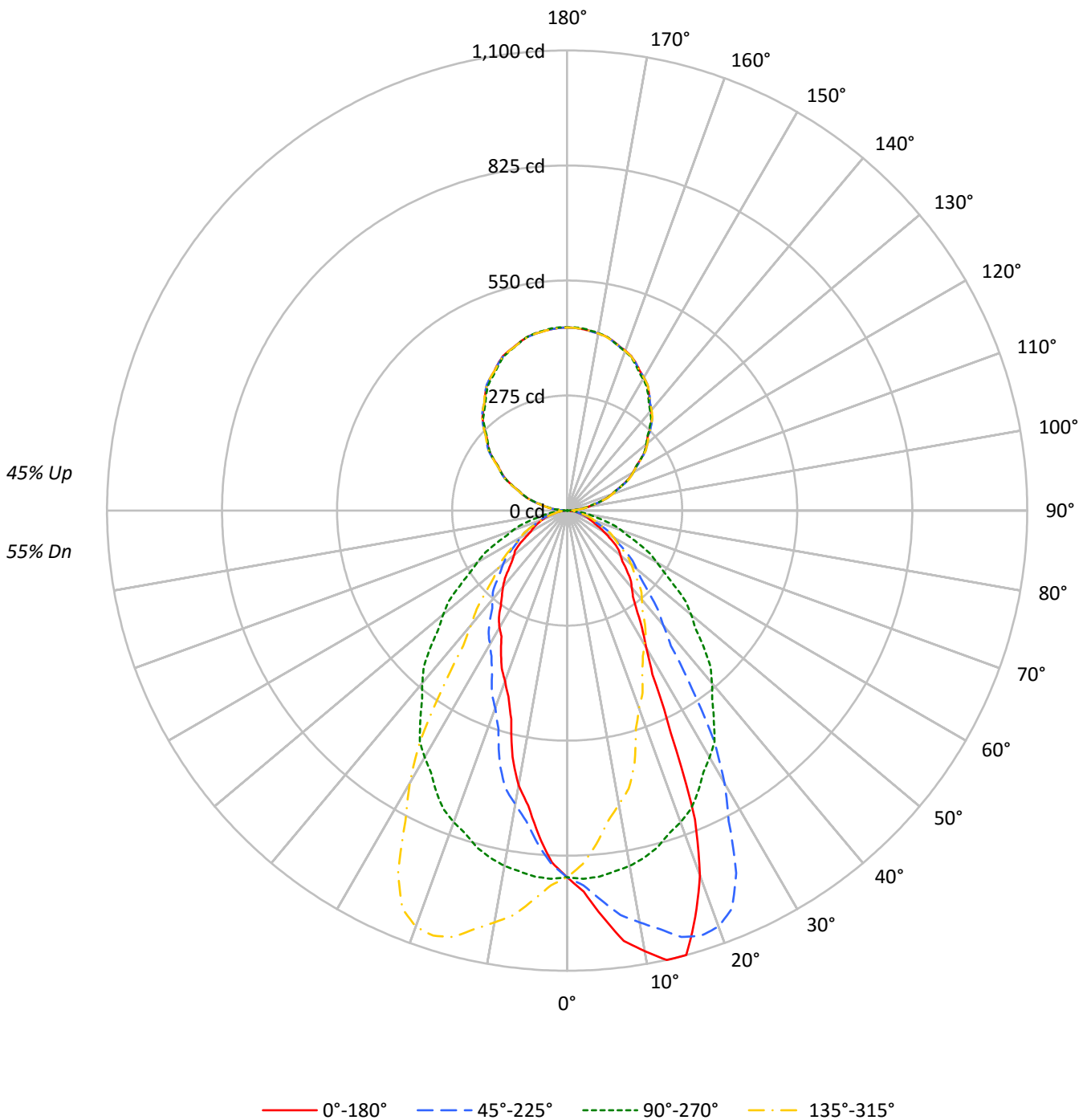
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	55	54	53	48
2	92	85	79	74	85	79	74	70	68	65	62	59	56	54	50	48	46	42
3	84	75	68	63	78	70	64	60	61	57	53	53	49	47	45	42	40	37
4	78	67	60	54	72	63	57	51	55	50	46	48	44	41	41	38	36	32
5	72	61	53	47	67	57	50	45	50	45	40	43	39	36	37	34	32	29
6	66	55	47	42	62	52	45	40	45	40	36	40	35	32	34	31	29	26
7	62	50	42	37	57	47	40	35	42	36	32	36	32	29	32	28	26	23
8	57	46	38	33	54	43	36	32	38	33	29	34	29	26	29	26	24	21
9	54	42	35	30	50	40	33	29	35	30	26	31	27	24	27	24	22	19
10	50	39	32	27	47	37	30	26	33	28	24	29	25	22	26	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14149	14149	14149	14149
5°	15801	14237	12624	14237
10°	17531	14137	10942	14137
15°	18392	13929	8622	13929
20°	15945	13622	7459	13622
25°	10457	13201	6661	13201
30°	7040	12693	6027	12693
35°	5702	12051	5436	12051
40°	5069	11352	5031	11352
45°	4590	10533	4491	10533
50°	4175	9718	4160	9718
55°	3924	8819	3873	8819
60°	3284	7992	3242	7992
65°	2770	7259	3140	7259
70°	2559	6482	2960	6482
75°	2395	5639	2739	5639
80°	2204	4640	2436	4640
85°	2019	3668	2149	3668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.0
10°-20°	231.5	8.4
20°-30°	298.2	10.9
30°-40°	283.4	10.3
40°-50°	242.8	8.9
50°-60°	184.9	6.7
60°-70°	116.9	4.3
70°-80°	58.4	2.1
80°-90°	16.9	0.6
90°-100°	27.7	1.0
100°-110°	86.1	3.1
110°-120°	147.2	5.4
120°-130°	193.6	7.1
130°-140°	217.3	7.9
140°-150°	213.1	7.8
150°-160°	178.7	6.5
160°-170°	118.6	4.3
170°-180°	41.4	1.5
0°-30°	612.8	22.4
0°-40°	896.2	32.7
0°-60°	1323.9	48.3
0°-90°	1516.1	55.3
90°-120°	261.1	9.5
90°-150°	885.2	32.3
90°-180°	1224.0	44.7
0°-180°	2740.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	876	876	876	876	876	
5°	975	878	779	878	975	96
15°	1100	833	516	833	1100	297
25°	587	741	374	741	587	279
35°	289	611	276	611	289	185
45°	201	461	197	461	201	156
55°	139	313	138	313	139	122
65°	72	190	82	190	72	74
75°	38	90	44	90	38	41
85°	11	20	12	20	11	12
90°	13	0	13	0	13	6
95°	23	19	23	19	23	26
105°	82	79	82	79	82	86
115°	148	148	148	148	148	146
125°	216	215	216	215	216	192
135°	281	278	281	278	281	217
145°	341	338	341	338	341	213
155°	389	386	389	386	389	179
165°	420	420	420	420	420	119
175°	436	437	436	437	436	41
180°	438	438	438	438	438	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	911.8	912.6	913.3	911.6	911.6	910.1	906.9	904.5	897.6	896.7	896.7
5°	974.9	974.3	975.5	971.5	966.0	964.8	959.0	951.5	943.5	934.7	932.9
7.5°	1037.6	1036.7	1034.3	1033.6	1029.4	1020.2	1010.9	1000.9	987.8	974.9	968.5
10°	1069.3	1079.3	1073.3	1062.6	1064.7	1050.4	1042.8	1029.7	1018.7	999.6	995.3
12.5°	1100.4	1104.4	1102.4	1096.4	1093.7	1083.8	1073.5	1062.1	1041.9	1024.7	1009.7
15°	1100.3	1106.1	1107.7	1105.8	1107.3	1106.7	1101.2	1091.8	1074.2	1055.2	1038.9
17.5°	1019.1	1023.1	1033.1	1039.8	1048.4	1066.4	1075.3	1078.8	1076.1	1065.4	1053.8
20°	928.0	921.3	949.3	963.6	975.8	1006.2	1032.4	1042.4	1058.6	1058.3	1055.2
22.5°	798.9	800.5	827.0	844.0	879.6	910.0	939.9	977.7	1008.9	1029.6	1041.6
25°	587.0	598.6	625.1	648.2	687.8	744.4	795.9	855.6	911.8	956.3	998.7
27.5°	440.8	441.7	462.7	484.1	507.6	554.0	618.8	690.1	770.4	836.6	912.8
30°	377.6	375.7	384.6	397.6	417.8	453.6	502.4	572.4	652.5	752.4	841.2
32.5°	332.7	332.8	339.5	349.2	365.8	390.0	423.5	480.3	556.0	654.2	758.4
35°	289.3	288.9	293.8	300.8	307.8	323.3	346.2	376.0	428.1	519.8	626.3
37.5°	258.0	259.4	261.8	266.2	273.9	282.5	296.3	316.3	353.4	407.6	497.1
40°	240.5	241.2	244.5	248.2	252.7	259.4	270.7	286.8	313.9	357.1	422.6
42.5°	224.5	225.0	227.5	230.8	234.4	241.2	250.5	264.4	286.4	320.1	374.1
45°	201.0	201.0	203.1	204.6	208.6	214.7	222.3	233.8	249.1	274.0	310.0
47.5°	178.9	179.0	180.3	183.0	185.5	190.2	197.7	207.2	218.3	237.6	268.2
50°	166.2	166.6	167.5	169.6	171.1	175.4	181.2	189.4	201.0	215.9	241.4
52.5°	156.0	155.8	156.9	157.9	158.9	162.0	166.3	173.6	183.9	196.9	218.1
55°	139.4	138.2	140.1	141.5	142.5	143.7	146.1	150.7	159.6	170.5	186.3
57.5°	118.7	118.2	119.5	120.9	123.8	127.1	129.1	132.1	136.6	144.5	160.2
60°	101.7	101.7	104.4	105.3	108.7	112.9	117.2	119.7	124.3	129.4	141.0
62.5°	86.6	86.8	88.1	89.0	90.9	96.1	102.2	107.5	111.8	116.8	124.4
65°	72.5	73.1	73.1	73.7	74.9	76.1	78.5	82.8	90.4	97.4	103.2
67.5°	61.5	61.7	61.9	62.5	62.8	64.1	65.1	67.0	68.7	75.4	82.6
70°	54.2	55.1	54.8	55.4	55.7	56.3	57.6	58.5	61.2	62.7	67.0
72.5°	47.4	48.0	48.0	48.3	49.2	49.2	50.2	51.1	52.9	54.2	56.5
75°	38.4	38.1	38.4	39.0	39.3	39.5	39.5	40.8	41.7	43.0	44.4
77.5°	29.6	29.9	29.8	29.9	29.9	30.5	30.4	31.0	31.9	32.5	33.3
80°	23.7	24.1	23.7	24.1	24.4	24.6	24.4	24.6	25.6	26.2	26.2
82.5°	18.4	18.4	18.7	18.7	18.8	18.8	19.2	19.3	20.0	19.8	20.1
85°	10.9	10.7	10.7	10.7	10.9	11.3	10.9	10.9	11.3	11.3	11.3
87.5°	6.4	6.6	6.6	6.6	6.6	6.6	6.6	6.9	6.7	6.9	6.4
90°	12.6	12.5	12.4	12.3	12.2	12.3	12.5	12.6	12.8	13.0	11.1
92.5°	12.0	12.0	11.9	11.9	11.9	11.9	11.8	11.8	11.7	11.7	11.3
95°	22.9	23.1	23.2	23.4	23.6	23.6	23.6	23.6	23.6	23.6	23.5
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.5
100°	50.6	50.7	50.8	50.9	51.0	51.0	51.0	51.0	51.0	51.0	50.7
102.5°	63.0	63.1	63.2	63.3	63.3	63.3	63.3	63.2	63.2	63.1	62.8
105°	82.0	82.0	82.0	82.0	82.0	81.9	81.8	81.6	81.4	81.3	81.1
107.5°	99.9	100.3	100.6	101.0	101.4	101.6	101.5	101.4	101.3	101.3	101.3
110°	113.7	114.0	114.2	114.5	114.7	114.9	114.9	114.9	114.9	114.9	114.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	127.1	127.3	127.4	127.6	127.8	128.0	128.2	128.4	128.6	128.7	128.8
115°	147.7	148.0	148.2	148.5	148.7	148.9	149.0	149.0	149.1	149.2	149.4
117.5°	167.5	167.7	168.0	168.2	168.4	168.7	168.8	169.1	169.3	169.5	169.9
120°	181.4	181.6	181.9	182.1	182.4	182.5	182.5	182.5	182.5	182.5	183.1
122.5°	194.9	195.1	195.3	195.5	195.7	195.8	196.1	196.2	196.5	196.7	197.1
125°	215.7	215.8	215.9	216.0	216.1	216.2	216.5	216.7	217.0	217.2	217.4
127.5°	234.6	234.9	235.1	235.4	235.7	235.9	236.3	236.5	236.8	237.2	237.4
130°	248.3	248.6	248.9	249.2	249.6	249.8	250.0	250.1	250.3	250.5	250.6
132.5°	261.2	261.5	261.7	262.0	262.3	262.6	262.9	263.3	263.7	264.0	264.0
135°	281.4	281.7	281.9	282.2	282.4	282.6	282.7	282.7	282.8	282.9	282.7
137.5°	299.8	300.1	300.4	300.8	301.1	301.3	301.3	301.4	301.5	301.6	301.3
140°	312.5	312.8	313.2	313.5	313.8	314.0	314.0	314.0	314.0	314.0	313.6
142.5°	324.0	324.3	324.7	325.0	325.3	325.5	325.4	325.3	325.3	325.2	324.9
145°	341.3	341.6	341.9	342.3	342.6	342.8	342.7	342.6	342.5	342.4	341.9
147.5°	356.8	357.0	357.3	357.7	358.0	358.1	357.9	357.7	357.5	357.3	357.0
150°	366.8	367.0	367.3	367.5	367.8	367.8	367.5	367.3	367.0	366.8	366.5
152.5°	376.3	376.6	376.8	377.2	377.5	377.5	377.2	376.8	376.6	376.3	375.9
155°	389.0	389.2	389.5	389.7	390.0	389.9	389.5	389.1	388.7	388.2	388.0
157.5°	399.9	400.3	400.6	401.0	401.5	401.4	400.8	400.2	399.7	399.2	399.0
160°	406.7	407.0	407.3	407.6	408.0	407.9	407.4	406.9	406.4	405.9	405.9
162.5°	412.6	412.9	413.4	413.8	414.2	414.1	413.5	412.9	412.4	411.9	411.8
165°	420.4	420.8	421.2	421.6	422.0	421.9	421.3	420.8	420.2	419.6	419.6
167.5°	426.7	427.1	427.5	428.0	428.4	428.4	427.8	427.2	426.6	426.1	426.1
170°	430.0	430.5	431.0	431.5	431.9	431.9	431.3	430.7	430.2	429.6	429.7
172.5°	432.6	433.1	433.6	434.1	434.6	434.6	434.0	433.4	432.8	432.3	432.4
175°	435.5	436.0	436.5	437.0	437.5	437.4	436.8	436.3	435.7	435.1	435.3
177.5°	436.8	437.2	437.7	438.0	438.4	438.4	438.0	437.7	437.2	436.8	436.9
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	897.2	895.3	893.6	889.2	887.0	882.1	881.3	881.1	874.8	868.7	867.0
5°	928.0	923.2	915.8	907.3	898.5	889.3	883.2	878.4	866.2	854.6	847.9
7.5°	959.0	948.6	936.0	919.8	906.4	891.3	880.1	870.0	852.7	836.2	825.0
10°	982.2	965.2	948.4	926.2	908.8	891.8	876.0	862.3	842.8	820.8	805.3
12.5°	996.5	977.8	954.7	933.0	910.5	888.8	867.6	850.0	827.2	804.5	786.0
15°	1016.0	995.9	967.9	936.9	907.9	879.6	855.2	833.3	803.5	776.4	753.8
17.5°	1031.9	1004.2	974.1	938.2	904.7	868.8	837.4	809.3	776.2	743.5	717.0
20°	1037.0	1009.6	974.9	939.0	899.4	857.0	823.3	792.8	757.2	721.5	691.1
22.5°	1033.8	1012.5	973.9	930.9	890.4	846.1	808.0	772.6	733.1	696.8	661.5
25°	1012.4	1005.0	968.5	921.6	875.3	823.9	779.8	741.0	696.0	657.0	618.6
27.5°	962.2	978.0	955.4	905.4	853.9	798.7	749.2	705.2	658.4	614.5	576.3
30°	914.0	950.2	940.4	894.2	836.7	782.4	726.8	680.8	630.9	585.8	548.0
32.5°	848.0	907.8	917.4	878.6	819.1	759.5	701.2	655.4	603.3	555.8	519.0
35°	742.9	832.4	873.5	848.8	789.1	725.0	664.6	611.4	559.0	512.1	475.6
37.5°	617.5	739.4	808.0	809.7	754.9	688.1	622.5	569.6	515.9	469.9	430.4
40°	536.1	668.3	757.5	777.3	731.0	658.8	592.5	538.6	486.2	441.2	395.8
42.5°	463.1	594.8	704.4	738.8	702.1	630.4	563.8	507.4	456.5	413.8	367.5
45°	374.5	489.6	610.4	672.0	651.6	585.1	514.9	461.3	413.4	376.6	332.2
47.5°	315.9	397.1	514.0	597.2	596.8	536.2	467.1	415.7	371.4	336.9	300.8
50°	282.5	353.2	452.2	546.5	554.4	503.6	437.8	386.9	345.6	309.3	280.4
52.5°	252.6	310.8	399.7	490.2	512.7	468.7	405.0	358.0	317.8	284.5	259.7
55°	213.4	258.4	326.1	410.7	444.8	413.8	357.1	313.3	280.7	252.7	231.4
57.5°	180.5	214.3	268.6	336.7	376.4	356.9	310.2	274.6	246.7	221.4	204.6
60°	159.9	187.5	233.5	290.5	334.3	320.6	280.7	247.5	223.8	201.9	186.1
62.5°	140.4	164.2	203.6	249.8	290.0	284.3	251.8	223.9	203.1	183.1	169.7
65°	112.9	130.3	161.0	197.3	229.6	232.3	208.9	190.0	171.4	155.6	143.7
67.5°	89.9	101.3	122.9	153.4	177.7	186.3	171.9	157.5	142.8	130.5	120.3
70°	75.8	85.0	100.8	125.5	147.7	156.8	148.5	137.3	124.5	114.5	105.7
72.5°	61.5	70.4	82.0	100.1	119.2	129.1	126.2	118.1	107.7	99.4	91.1
75°	46.3	49.0	56.9	69.1	84.1	92.5	94.7	90.4	82.2	75.8	70.9
77.5°	34.2	35.9	39.6	46.1	55.8	63.3	66.5	66.0	60.3	56.7	52.1
80°	27.4	28.3	30.2	32.9	40.2	47.8	49.9	49.9	46.0	44.4	39.9
82.5°	20.8	21.5	22.6	24.1	27.6	34.2	36.5	37.0	34.5	32.5	28.9
85°	11.9	11.6	12.1	13.1	13.7	15.5	19.2	19.8	19.2	16.7	15.8
87.5°	6.0	5.9	5.5	5.0	5.1	5.1	6.1	7.2	6.4	5.8	5.5
90°	9.3	7.5	5.7	4.3	3.3	2.4	1.4	0.4	1.4	2.4	3.3
92.5°	10.9	10.4	10.0	9.5	8.7	8.0	7.3	6.6	7.3	8.0	8.7
95°	23.3	23.2	23.0	22.5	21.7	20.9	20.1	19.2	20.1	20.9	21.7
97.5°	39.1	38.8	38.5	38.0	37.3	36.5	35.8	35.1	35.8	36.5	37.3
100°	50.5	50.2	50.0	49.6	48.9	48.2	47.5	46.9	47.5	48.2	48.9
102.5°	62.5	62.1	61.9	61.4	60.9	60.3	59.8	59.4	59.8	60.3	60.9
105°	81.0	80.8	80.6	80.4	80.1	79.9	79.7	79.4	79.7	79.9	80.1
107.5°	101.3	101.3	101.3	101.1	100.8	100.4	100.0	99.6	100.0	100.4	100.8
110°	114.9	114.9	114.9	114.6	114.1	113.7	113.2	112.7	113.2	113.7	114.1



TEST NUMBER: P331786-930

CATALOG NUMBER: S122RDIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	128.9	129.0	129.1	128.8	128.3	127.8	127.3	126.9	127.3	127.8	128.3
115°	149.5	149.7	149.9	149.7	149.2	148.7	148.2	147.7	148.2	148.7	149.2
117.5°	170.4	170.9	171.3	171.2	170.6	169.9	169.3	168.6	169.3	169.9	170.6
120°	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5	183.1	183.8	184.4
122.5°	197.5	198.0	198.5	198.4	197.5	196.7	196.0	195.2	196.0	196.7	197.5
125°	217.7	217.9	218.2	217.9	217.2	216.5	215.7	215.0	215.7	216.5	217.2
127.5°	237.7	238.1	238.3	238.0	237.1	236.1	235.2	234.2	235.2	236.1	237.1
130°	250.8	250.9	251.1	250.6	249.6	248.5	247.4	246.4	247.4	248.5	249.6
132.5°	264.0	263.9	263.9	263.4	262.6	261.7	260.8	260.0	260.8	261.7	262.6
135°	282.6	282.4	282.3	281.8	280.9	280.0	279.1	278.2	279.1	280.0	280.9
137.5°	301.2	300.9	300.7	300.2	299.5	298.7	298.0	297.3	298.0	298.7	299.5
140°	313.2	312.7	312.3	311.8	311.0	310.3	309.6	308.8	309.6	310.3	311.0
142.5°	324.7	324.3	324.1	323.6	322.9	322.1	321.4	320.7	321.4	322.1	322.9
145°	341.4	341.0	340.5	339.9	339.3	338.8	338.2	337.6	338.2	338.8	339.3
147.5°	356.7	356.4	356.0	355.6	354.8	354.2	353.4	352.8	353.4	354.2	354.8
150°	366.2	365.8	365.5	365.1	364.6	364.1	363.6	363.1	363.6	364.1	364.6
152.5°	375.4	375.0	374.7	374.2	373.7	373.2	372.8	372.3	372.8	373.2	373.7
155°	387.8	387.5	387.3	387.0	386.8	386.5	386.2	386.0	386.2	386.5	386.8
157.5°	398.8	398.7	398.5	398.4	398.3	398.1	397.9	397.8	397.9	398.1	398.3
160°	405.8	405.7	405.6	405.5	405.4	405.2	405.0	404.9	405.0	405.2	405.4
162.5°	411.7	411.6	411.6	411.5	411.4	411.4	411.4	411.3	411.4	411.4	411.4
165°	419.6	419.6	419.6	419.6	419.7	419.8	419.9	420.0	419.9	419.8	419.7
167.5°	426.1	426.1	426.1	426.2	426.5	426.7	427.0	427.2	427.0	426.7	426.5
170°	429.7	429.8	429.9	430.1	430.3	430.6	430.8	431.0	430.8	430.6	430.3
172.5°	432.4	432.5	432.6	432.8	433.0	433.3	433.5	433.7	433.5	433.3	433.0
175°	435.5	435.6	435.8	436.0	436.3	436.5	436.8	437.0	436.8	436.5	436.3
177.5°	437.1	437.2	437.3	437.5	437.7	437.9	438.1	438.3	438.1	437.9	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331786-930

CATALOG NUMBER: S122RDIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	863.8	862.1	858.9	854.1	851.2	846.0	842.6	844.6	845.1	844.6	844.1
5°	840.7	834.2	825.4	816.8	808.9	800.5	795.6	793.4	789.1	786.8	785.5
7.5°	812.5	801.5	789.0	774.2	761.6	748.4	741.6	738.3	729.5	724.8	720.6
10°	791.6	774.2	761.7	742.2	730.4	713.1	701.2	701.5	689.6	682.9	678.0
12.5°	768.5	749.4	728.6	711.1	694.6	680.7	666.3	660.6	647.9	641.5	628.4
15°	730.1	707.8	686.0	662.2	645.5	623.9	603.2	577.9	557.5	539.8	534.9
17.5°	688.2	660.7	638.7	610.8	582.1	545.8	521.8	507.1	494.8	485.5	478.6
20°	659.5	631.4	608.1	566.0	527.3	502.6	485.0	473.8	461.0	450.9	445.4
22.5°	629.2	600.1	568.1	521.1	491.1	471.2	455.5	442.5	433.9	426.1	421.1
25°	586.4	554.4	501.7	469.4	445.2	424.4	413.4	405.5	396.4	385.7	380.9
27.5°	541.1	490.2	452.4	428.4	405.2	391.8	381.9	370.1	361.9	357.1	352.0
30°	507.2	456.4	426.9	400.6	384.3	369.3	357.8	351.1	343.2	334.9	331.6
32.5°	469.4	428.8	400.6	378.8	362.1	349.4	340.2	329.4	323.7	318.6	311.6
35°	422.6	391.8	366.0	348.3	332.5	322.1	311.4	305.1	294.7	290.5	287.7
37.5°	382.9	356.2	336.9	318.3	305.7	294.3	287.8	277.6	273.1	267.2	261.4
40°	360.4	334.3	315.8	300.5	286.5	277.9	269.8	261.5	254.9	252.1	245.1
42.5°	337.6	316.3	297.7	281.0	271.7	262.6	252.3	246.2	239.2	234.8	230.5
45°	306.0	287.1	271.3	257.6	247.2	237.8	231.1	221.0	217.1	208.2	204.6
47.5°	278.2	260.7	245.6	232.5	222.4	216.3	206.5	198.6	192.3	186.9	182.2
50°	258.4	243.9	229.3	217.7	208.6	199.7	189.7	185.7	175.9	173.3	170.5
52.5°	240.4	226.6	213.2	201.9	192.7	184.2	175.3	170.2	163.5	160.8	158.8
55°	215.2	201.9	189.1	179.0	169.9	161.0	155.6	149.2	146.1	144.0	141.5
57.5°	189.9	177.9	168.0	157.9	148.7	141.7	135.3	131.5	128.3	125.6	122.6
60°	173.8	162.2	153.4	144.0	134.6	128.8	123.9	119.4	115.7	111.5	110.2
62.5°	156.8	146.7	138.6	129.4	121.2	115.9	111.3	107.0	102.6	96.4	94.7
65°	133.4	125.5	116.9	109.3	102.0	96.9	90.1	85.3	83.4	82.8	82.5
67.5°	112.2	104.7	97.3	89.6	82.9	78.1	74.7	73.9	72.7	72.3	71.5
70°	98.0	91.1	83.7	76.4	70.0	69.1	67.9	66.7	65.1	64.6	63.9
72.5°	85.4	78.1	70.8	65.0	62.2	61.1	59.8	58.6	57.6	57.0	56.7
75°	65.5	58.8	53.9	51.8	50.2	49.3	47.5	46.6	46.0	45.1	44.8
77.5°	47.1	43.4	41.1	39.8	38.2	37.2	36.2	35.2	34.6	34.4	33.9
80°	36.0	34.1	32.6	30.7	30.2	28.9	28.6	27.7	28.0	27.1	27.1
82.5°	27.9	25.6	24.3	23.5	22.8	21.9	21.5	21.1	21.2	20.5	20.5
85°	14.3	13.7	13.1	12.5	12.5	11.6	11.9	11.6	11.6	10.9	10.7
87.5°	5.5	5.5	5.4	5.8	6.1	6.3	6.2	6.0	5.9	5.9	5.6
90°	4.3	5.7	7.5	9.3	11.1	13.0	12.8	12.6	12.5	12.3	12.2
92.5°	9.5	10.0	10.4	10.9	11.3	11.7	11.7	11.8	11.8	11.9	11.9
95°	22.5	23.0	23.2	23.3	23.5	23.6	23.6	23.6	23.6	23.6	23.6
97.5°	38.0	38.5	38.8	39.1	39.5	39.7	39.7	39.7	39.7	39.7	39.7
100°	49.6	50.0	50.2	50.5	50.7	51.0	51.0	51.0	51.0	51.0	51.0
102.5°	61.4	61.9	62.1	62.5	62.8	63.1	63.2	63.2	63.3	63.3	63.3
105°	80.4	80.6	80.8	81.0	81.1	81.3	81.4	81.6	81.8	81.9	82.0
107.5°	101.1	101.3	101.3	101.3	101.3	101.3	101.3	101.4	101.5	101.6	101.4
110°	114.6	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.7



TEST NUMBER: P331786-930

CATALOG NUMBER: S122RDIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	128.8	129.1	129.0	128.9	128.8	128.7	128.6	128.4	128.2	128.0	127.8
115°	149.7	149.9	149.7	149.5	149.4	149.2	149.1	149.0	149.0	148.9	148.7
117.5°	171.2	171.3	170.9	170.4	169.9	169.5	169.3	169.1	168.8	168.7	168.4
120°	185.1	185.1	184.4	183.8	183.1	182.5	182.5	182.5	182.5	182.5	182.4
122.5°	198.4	198.5	198.0	197.5	197.1	196.7	196.5	196.2	196.1	195.8	195.7
125°	217.9	218.2	217.9	217.7	217.4	217.2	217.0	216.7	216.5	216.2	216.1
127.5°	238.0	238.3	238.1	237.7	237.4	237.2	236.8	236.5	236.3	235.9	235.7
130°	250.6	251.1	250.9	250.8	250.6	250.5	250.3	250.1	250.0	249.8	249.6
132.5°	263.4	263.9	263.9	264.0	264.0	264.0	263.7	263.3	262.9	262.6	262.3
135°	281.8	282.3	282.4	282.6	282.7	282.9	282.8	282.7	282.7	282.6	282.4
137.5°	300.2	300.7	300.9	301.2	301.3	301.6	301.5	301.4	301.3	301.3	301.1
140°	311.8	312.3	312.7	313.2	313.6	314.0	314.0	314.0	314.0	314.0	313.8
142.5°	323.6	324.1	324.3	324.7	324.9	325.2	325.3	325.3	325.4	325.5	325.3
145°	339.9	340.5	341.0	341.4	341.9	342.4	342.5	342.6	342.7	342.8	342.6
147.5°	355.6	356.0	356.4	356.7	357.0	357.3	357.5	357.7	357.9	358.1	358.0
150°	365.1	365.5	365.8	366.2	366.5	366.8	367.0	367.3	367.5	367.8	367.8
152.5°	374.2	374.7	375.0	375.4	375.9	376.3	376.6	376.8	377.2	377.5	377.5
155°	387.0	387.3	387.5	387.8	388.0	388.2	388.7	389.1	389.5	389.9	390.0
157.5°	398.4	398.5	398.7	398.8	399.0	399.2	399.7	400.2	400.8	401.4	401.5
160°	405.5	405.6	405.7	405.8	405.9	405.9	406.4	406.9	407.4	407.9	408.0
162.5°	411.5	411.6	411.6	411.7	411.8	411.9	412.4	412.9	413.5	414.1	414.2
165°	419.6	419.6	419.6	419.6	419.6	419.6	420.2	420.8	421.3	421.9	422.0
167.5°	426.2	426.1	426.1	426.1	426.1	426.1	426.6	427.2	427.8	428.4	428.4
170°	430.1	429.9	429.8	429.7	429.7	429.6	430.2	430.7	431.3	431.9	431.9
172.5°	432.8	432.6	432.5	432.4	432.4	432.3	432.8	433.4	434.0	434.6	434.6
175°	436.0	435.8	435.6	435.5	435.3	435.1	435.7	436.3	436.8	437.4	437.5
177.5°	437.5	437.3	437.2	437.1	436.9	436.8	437.2	437.7	438.0	438.4	438.4
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331786-930

CATALOG NUMBER: S122RDIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	841.4	841.9	841.1	841.6	841.1	841.9	841.4	844.1	844.6	845.1	844.6
5°	784.0	780.3	779.8	778.9	779.8	780.3	784.0	785.5	786.8	789.1	793.4
7.5°	715.4	714.9	713.4	711.2	713.4	714.9	715.4	720.6	724.8	729.5	738.3
10°	671.3	669.8	669.5	667.4	669.5	669.8	671.3	678.0	682.9	689.6	701.5
12.5°	619.7	609.9	608.9	603.6	608.9	609.9	619.7	628.4	641.5	647.9	660.6
15°	527.7	525.8	519.8	515.8	519.8	525.8	527.7	534.9	539.8	557.5	577.9
17.5°	475.0	469.0	467.2	466.4	467.2	469.0	475.0	478.6	485.5	494.8	507.1
20°	441.2	435.7	434.8	434.1	434.8	435.7	441.2	445.4	450.9	461.0	473.8
22.5°	417.8	412.1	409.7	407.9	409.7	412.1	417.8	421.1	426.1	433.9	442.5
25°	377.8	375.7	374.5	373.9	374.5	375.7	377.8	380.9	385.7	396.4	405.5
27.5°	346.6	341.9	341.0	339.4	341.0	341.9	346.6	352.0	357.1	361.9	370.1
30°	328.8	327.3	325.1	323.3	325.1	327.3	328.8	331.6	334.9	343.2	351.1
32.5°	307.9	306.6	304.7	303.9	304.7	306.6	307.9	311.6	318.6	323.7	329.4
35°	284.7	280.4	278.6	275.8	278.6	280.4	284.7	287.7	290.5	294.7	305.1
37.5°	260.2	257.9	255.4	256.2	255.4	257.9	260.2	261.4	267.2	273.1	277.6
40°	241.2	239.6	239.0	238.7	239.0	239.6	241.2	245.1	252.1	254.9	261.5
42.5°	226.0	221.8	220.2	220.2	220.2	221.8	226.0	230.5	234.8	239.2	246.2
45°	203.1	199.1	196.4	196.7	196.4	199.1	203.1	204.6	208.2	217.1	221.0
47.5°	179.6	179.4	177.7	178.3	177.7	179.4	179.6	182.2	186.9	192.3	198.6
50°	168.4	166.6	165.3	165.6	165.3	166.6	168.4	170.5	173.3	175.9	185.7
52.5°	157.7	156.0	155.1	156.4	155.1	156.0	157.7	158.8	160.8	163.5	170.2
55°	140.1	138.2	137.9	137.6	137.9	138.2	140.1	141.5	144.0	146.1	149.2
57.5°	120.4	119.2	117.3	116.6	117.3	119.2	120.4	122.6	125.6	128.3	131.5
60°	106.2	103.8	100.8	100.4	100.8	103.8	106.2	110.2	111.5	115.7	119.4
62.5°	93.4	92.9	92.3	92.2	92.3	92.9	93.4	94.7	96.4	102.6	107.0
65°	81.9	81.6	81.9	82.2	81.9	81.6	81.9	82.5	82.8	83.4	85.3
67.5°	71.3	70.8	70.3	70.5	70.3	70.8	71.3	71.5	72.3	72.7	73.9
70°	63.3	63.0	62.7	62.7	62.7	63.0	63.3	63.9	64.6	65.1	66.7
72.5°	55.5	55.4	55.2	55.0	55.2	55.4	55.5	56.7	57.0	57.6	58.6
75°	44.4	43.9	43.9	43.9	43.9	43.9	44.4	44.8	45.1	46.0	46.6
77.5°	33.8	33.6	33.3	33.0	33.3	33.6	33.8	33.9	34.4	34.6	35.2
80°	26.8	26.5	26.2	26.2	26.2	26.5	26.8	27.1	27.1	28.0	27.7
82.5°	20.5	20.1	20.1	19.8	20.1	20.1	20.5	20.5	20.5	21.2	21.1
85°	10.9	11.3	10.9	11.6	10.9	11.3	10.9	10.7	10.9	11.6	11.6
87.5°	5.6	5.4	5.6	5.5	5.6	5.4	5.6	5.6	5.9	5.9	6.0
90°	12.3	12.4	12.5	12.6	12.5	12.4	12.3	12.2	12.3	12.5	12.6
92.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.9	11.9	11.8	11.8
95°	23.4	23.2	23.1	22.9	23.1	23.2	23.4	23.6	23.6	23.6	23.6
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
100°	50.9	50.8	50.7	50.6	50.7	50.8	50.9	51.0	51.0	51.0	51.0
102.5°	63.3	63.2	63.1	63.0	63.1	63.2	63.3	63.3	63.3	63.3	63.2
105°	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	81.9	81.8	81.6
107.5°	101.0	100.6	100.3	99.9	100.3	100.6	101.0	101.4	101.6	101.5	101.4
110°	114.5	114.2	114.0	113.7	114.0	114.2	114.5	114.7	114.9	114.9	114.9



TEST NUMBER: P331786-930

CATALOG NUMBER: S122RDIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	127.6	127.4	127.3	127.1	127.3	127.4	127.6	127.8	128.0	128.2	128.4
115°	148.5	148.2	148.0	147.7	148.0	148.2	148.5	148.7	148.9	149.0	149.0
117.5°	168.2	168.0	167.7	167.5	167.7	168.0	168.2	168.4	168.7	168.8	169.1
120°	182.1	181.9	181.6	181.4	181.6	181.9	182.1	182.4	182.5	182.5	182.5
122.5°	195.5	195.3	195.1	194.9	195.1	195.3	195.5	195.7	195.8	196.1	196.2
125°	216.0	215.9	215.8	215.7	215.8	215.9	216.0	216.1	216.2	216.5	216.7
127.5°	235.4	235.1	234.9	234.6	234.9	235.1	235.4	235.7	235.9	236.3	236.5
130°	249.2	248.9	248.6	248.3	248.6	248.9	249.2	249.6	249.8	250.0	250.1
132.5°	262.0	261.7	261.5	261.2	261.5	261.7	262.0	262.3	262.6	262.9	263.3
135°	282.2	281.9	281.7	281.4	281.7	281.9	282.2	282.4	282.6	282.7	282.7
137.5°	300.8	300.4	300.1	299.8	300.1	300.4	300.8	301.1	301.3	301.3	301.4
140°	313.5	313.2	312.8	312.5	312.8	313.2	313.5	313.8	314.0	314.0	314.0
142.5°	325.0	324.7	324.3	324.0	324.3	324.7	325.0	325.3	325.5	325.4	325.3
145°	342.3	341.9	341.6	341.3	341.6	341.9	342.3	342.6	342.8	342.7	342.6
147.5°	357.7	357.3	357.0	356.8	357.0	357.3	357.7	358.0	358.1	357.9	357.7
150°	367.5	367.3	367.0	366.8	367.0	367.3	367.5	367.8	367.8	367.5	367.3
152.5°	377.2	376.8	376.6	376.3	376.6	376.8	377.2	377.5	377.5	377.2	376.8
155°	389.7	389.5	389.2	389.0	389.2	389.5	389.7	390.0	389.9	389.5	389.1
157.5°	401.0	400.6	400.3	399.9	400.3	400.6	401.0	401.5	401.4	400.8	400.2
160°	407.6	407.3	407.0	406.7	407.0	407.3	407.6	408.0	407.9	407.4	406.9
162.5°	413.8	413.4	412.9	412.6	412.9	413.4	413.8	414.2	414.1	413.5	412.9
165°	421.6	421.2	420.8	420.4	420.8	421.2	421.6	422.0	421.9	421.3	420.8
167.5°	428.0	427.5	427.1	426.7	427.1	427.5	428.0	428.4	428.4	427.8	427.2
170°	431.5	431.0	430.5	430.0	430.5	431.0	431.5	431.9	431.9	431.3	430.7
172.5°	434.1	433.6	433.1	432.6	433.1	433.6	434.1	434.6	434.6	434.0	433.4
175°	437.0	436.5	436.0	435.5	436.0	436.5	437.0	437.5	437.4	436.8	436.3
177.5°	438.0	437.7	437.2	436.8	437.2	437.7	438.0	438.4	438.4	438.0	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331786-930

CATALOG NUMBER: S122RDIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	842.6	846.0	851.2	854.1	858.9	862.1	863.8	867.0	868.7	874.8	881.1
5°	795.6	800.5	808.9	816.8	825.4	834.2	840.7	847.9	854.6	866.2	878.4
7.5°	741.6	748.4	761.6	774.2	789.0	801.5	812.5	825.0	836.2	852.7	870.0
10°	701.2	713.1	730.4	742.2	761.7	774.2	791.6	805.3	820.8	842.8	862.3
12.5°	666.3	680.7	694.6	711.1	728.6	749.4	768.5	786.0	804.5	827.2	850.0
15°	603.2	623.9	645.5	662.2	686.0	707.8	730.1	753.8	776.4	803.5	833.3
17.5°	521.8	545.8	582.1	610.8	638.7	660.7	688.2	717.0	743.5	776.2	809.3
20°	485.0	502.6	527.3	566.0	608.1	631.4	659.5	691.1	721.5	757.2	792.8
22.5°	455.5	471.2	491.1	521.1	568.1	600.1	629.2	661.5	696.8	733.1	772.6
25°	413.4	424.4	445.2	469.4	501.7	554.4	586.4	618.6	657.0	696.0	741.0
27.5°	381.9	391.8	405.2	428.4	452.4	490.2	541.1	576.3	614.5	658.4	705.2
30°	357.8	369.3	384.3	400.6	426.9	456.4	507.2	548.0	585.8	630.9	680.8
32.5°	340.2	349.4	362.1	378.8	400.6	428.8	469.4	519.0	555.8	603.3	655.4
35°	311.4	322.1	332.5	348.3	366.0	391.8	422.6	475.6	512.1	559.0	611.4
37.5°	287.8	294.3	305.7	318.3	336.9	356.2	382.9	430.4	469.9	515.9	569.6
40°	269.8	277.9	286.5	300.5	315.8	334.3	360.4	395.8	441.2	486.2	538.6
42.5°	252.3	262.6	271.7	281.0	297.7	316.3	337.6	367.5	413.8	456.5	507.4
45°	231.1	237.8	247.2	257.6	271.3	287.1	306.0	332.2	376.6	413.4	461.3
47.5°	206.5	216.3	222.4	232.5	245.6	260.7	278.2	300.8	336.9	371.4	415.7
50°	189.7	199.7	208.6	217.7	229.3	243.9	258.4	280.4	309.3	345.6	386.9
52.5°	175.3	184.2	192.7	201.9	213.2	226.6	240.4	259.7	284.5	317.8	358.0
55°	155.6	161.0	169.9	179.0	189.1	201.9	215.2	231.4	252.7	280.7	313.3
57.5°	135.3	141.7	148.7	157.9	168.0	177.9	189.9	204.6	221.4	246.7	274.6
60°	123.9	128.8	134.6	144.0	153.4	162.2	173.8	186.1	201.9	223.8	247.5
62.5°	111.3	115.9	121.2	129.4	138.6	146.7	156.8	169.7	183.1	203.1	223.9
65°	90.1	96.9	102.0	109.3	116.9	125.5	133.4	143.7	155.6	171.4	190.0
67.5°	74.7	78.1	82.9	89.6	97.3	104.7	112.2	120.3	130.5	142.8	157.5
70°	67.9	69.1	70.0	76.4	83.7	91.1	98.0	105.7	114.5	124.5	137.3
72.5°	59.8	61.1	62.2	65.0	70.8	78.1	85.4	91.1	99.4	107.7	118.1
75°	47.5	49.3	50.2	51.8	53.9	58.8	65.5	70.9	75.8	82.2	90.4
77.5°	36.2	37.2	38.2	39.8	41.1	43.4	47.1	52.1	56.7	60.3	66.0
80°	28.6	28.9	30.2	30.7	32.6	34.1	36.0	39.9	44.4	46.0	49.9
82.5°	21.5	21.9	22.8	23.5	24.3	25.6	27.9	28.9	32.5	34.5	37.0
85°	11.9	11.6	12.5	12.5	13.1	13.7	14.3	15.8	16.7	19.2	19.8
87.5°	6.2	6.3	6.1	5.8	5.4	5.5	5.5	5.5	5.8	6.4	7.2
90°	12.8	13.0	11.1	9.3	7.5	5.7	4.3	3.3	2.4	1.4	0.4
92.5°	11.7	11.7	11.3	10.9	10.4	10.0	9.5	8.7	8.0	7.3	6.6
95°	23.6	23.6	23.5	23.3	23.2	23.0	22.5	21.7	20.9	20.1	19.2
97.5°	39.7	39.7	39.5	39.1	38.8	38.5	38.0	37.3	36.5	35.8	35.1
100°	51.0	51.0	50.7	50.5	50.2	50.0	49.6	48.9	48.2	47.5	46.9
102.5°	63.2	63.1	62.8	62.5	62.1	61.9	61.4	60.9	60.3	59.8	59.4
105°	81.4	81.3	81.1	81.0	80.8	80.6	80.4	80.1	79.9	79.7	79.4
107.5°	101.3	101.3	101.3	101.3	101.3	101.3	101.1	100.8	100.4	100.0	99.6
110°	114.9	114.9	114.9	114.9	114.9	114.9	114.6	114.1	113.7	113.2	112.7



TEST NUMBER: P331786-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	128.6	128.7	128.8	128.9	129.0	129.1	128.8	128.3	127.8	127.3	126.9
115°	149.1	149.2	149.4	149.5	149.7	149.9	149.7	149.2	148.7	148.2	147.7
117.5°	169.3	169.5	169.9	170.4	170.9	171.3	171.2	170.6	169.9	169.3	168.6
120°	182.5	182.5	183.1	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5
122.5°	196.5	196.7	197.1	197.5	198.0	198.5	198.4	197.5	196.7	196.0	195.2
125°	217.0	217.2	217.4	217.7	217.9	218.2	217.9	217.2	216.5	215.7	215.0
127.5°	236.8	237.2	237.4	237.7	238.1	238.3	238.0	237.1	236.1	235.2	234.2
130°	250.3	250.5	250.6	250.8	250.9	251.1	250.6	249.6	248.5	247.4	246.4
132.5°	263.7	264.0	264.0	264.0	263.9	263.9	263.4	262.6	261.7	260.8	260.0
135°	282.8	282.9	282.7	282.6	282.4	282.3	281.8	280.9	280.0	279.1	278.2
137.5°	301.5	301.6	301.3	301.2	300.9	300.7	300.2	299.5	298.7	298.0	297.3
140°	314.0	314.0	313.6	313.2	312.7	312.3	311.8	311.0	310.3	309.6	308.8
142.5°	325.3	325.2	324.9	324.7	324.3	324.1	323.6	322.9	322.1	321.4	320.7
145°	342.5	342.4	341.9	341.4	341.0	340.5	339.9	339.3	338.8	338.2	337.6
147.5°	357.5	357.3	357.0	356.7	356.4	356.0	355.6	354.8	354.2	353.4	352.8
150°	367.0	366.8	366.5	366.2	365.8	365.5	365.1	364.6	364.1	363.6	363.1
152.5°	376.6	376.3	375.9	375.4	375.0	374.7	374.2	373.7	373.2	372.8	372.3
155°	388.7	388.2	388.0	387.8	387.5	387.3	387.0	386.8	386.5	386.2	386.0
157.5°	399.7	399.2	399.0	398.8	398.7	398.5	398.4	398.3	398.1	397.9	397.8
160°	406.4	405.9	405.9	405.8	405.7	405.6	405.5	405.4	405.2	405.0	404.9
162.5°	412.4	411.9	411.8	411.7	411.6	411.6	411.5	411.4	411.4	411.4	411.3
165°	420.2	419.6	419.6	419.6	419.6	419.6	419.6	419.7	419.8	419.9	420.0
167.5°	426.6	426.1	426.1	426.1	426.1	426.1	426.2	426.5	426.7	427.0	427.2
170°	430.2	429.6	429.7	429.7	429.8	429.9	430.1	430.3	430.6	430.8	431.0
172.5°	432.8	432.3	432.4	432.4	432.5	432.6	432.8	433.0	433.3	433.5	433.7
175°	435.7	435.1	435.3	435.5	435.6	435.8	436.0	436.3	436.5	436.8	437.0
177.5°	437.2	436.8	436.9	437.1	437.2	437.3	437.5	437.7	437.9	438.1	438.3
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331786-930

CATALOG NUMBER: S122RDIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	881.3	882.1	887.0	889.2	893.6	895.3	897.2	896.7	896.7	897.6	904.5
5°	883.2	889.3	898.5	907.3	915.8	923.2	928.0	932.9	934.7	943.5	951.5
7.5°	880.1	891.3	906.4	919.8	936.0	948.6	959.0	968.5	974.9	987.8	1000.9
10°	876.0	891.8	908.8	926.2	948.4	965.2	982.2	995.3	999.6	1018.7	1029.7
12.5°	867.6	888.8	910.5	933.0	954.7	977.8	996.5	1009.7	1024.7	1041.9	1062.1
15°	855.2	879.6	907.9	936.9	967.9	995.9	1016.0	1038.9	1055.2	1074.2	1091.8
17.5°	837.4	868.8	904.7	938.2	974.1	1004.2	1031.9	1053.8	1065.4	1076.1	1078.8
20°	823.3	857.0	899.4	939.0	974.9	1009.6	1037.0	1055.2	1058.3	1058.6	1042.4
22.5°	808.0	846.1	890.4	930.9	973.9	1012.5	1033.8	1041.6	1029.6	1008.9	977.7
25°	779.8	823.9	875.3	921.6	968.5	1005.0	1012.4	998.7	956.3	911.8	855.6
27.5°	749.2	798.7	853.9	905.4	955.4	978.0	962.2	912.8	836.6	770.4	690.1
30°	726.8	782.4	836.7	894.2	940.4	950.2	914.0	841.2	752.4	652.5	572.4
32.5°	701.2	759.5	819.1	878.6	917.4	907.8	848.0	758.4	654.2	556.0	480.3
35°	664.6	725.0	789.1	848.8	873.5	832.4	742.9	626.3	519.8	428.1	376.0
37.5°	622.5	688.1	754.9	809.7	808.0	739.4	617.5	497.1	407.6	353.4	316.3
40°	592.5	658.8	731.0	777.3	757.5	668.3	536.1	422.6	357.1	313.9	286.8
42.5°	563.8	630.4	702.1	738.8	704.4	594.8	463.1	374.1	320.1	286.4	264.4
45°	514.9	585.1	651.6	672.0	610.4	489.6	374.5	310.0	274.0	249.1	233.8
47.5°	467.1	536.2	596.8	597.2	514.0	397.1	315.9	268.2	237.6	218.3	207.2
50°	437.8	503.6	554.4	546.5	452.2	353.2	282.5	241.4	215.9	201.0	189.4
52.5°	405.0	468.7	512.7	490.2	399.7	310.8	252.6	218.1	196.9	183.9	173.6
55°	357.1	413.8	444.8	410.7	326.1	258.4	213.4	186.3	170.5	159.6	150.7
57.5°	310.2	356.9	376.4	336.7	268.6	214.3	180.5	160.2	144.5	136.6	132.1
60°	280.7	320.6	334.3	290.5	233.5	187.5	159.9	141.0	129.4	124.3	119.7
62.5°	251.8	284.3	290.0	249.8	203.6	164.2	140.4	124.4	116.8	111.8	107.5
65°	208.9	232.3	229.6	197.3	161.0	130.3	112.9	103.2	97.4	90.4	82.8
67.5°	171.9	186.3	177.7	153.4	122.9	101.3	89.9	82.6	75.4	68.7	67.0
70°	148.5	156.8	147.7	125.5	100.8	85.0	75.8	67.0	62.7	61.2	58.5
72.5°	126.2	129.1	119.2	100.1	82.0	70.4	61.5	56.5	54.2	52.9	51.1
75°	94.7	92.5	84.1	69.1	56.9	49.0	46.3	44.4	43.0	41.7	40.8
77.5°	66.5	63.3	55.8	46.1	39.6	35.9	34.2	33.3	32.5	31.9	31.0
80°	49.9	47.8	40.2	32.9	30.2	28.3	27.4	26.2	26.2	25.6	24.6
82.5°	36.5	34.2	27.6	24.1	22.6	21.5	20.8	20.1	19.8	20.0	19.3
85°	19.2	15.5	13.7	13.1	12.1	11.6	11.9	11.3	11.3	11.3	10.9
87.5°	6.1	5.1	5.1	5.0	5.5	5.9	6.0	6.4	6.9	6.7	6.9
90°	1.4	2.4	3.3	4.3	5.7	7.5	9.3	11.1	13.0	12.8	12.6
92.5°	7.3	8.0	8.7	9.5	10.0	10.4	10.9	11.3	11.7	11.7	11.8
95°	20.1	20.9	21.7	22.5	23.0	23.2	23.3	23.5	23.6	23.6	23.6
97.5°	35.8	36.5	37.3	38.0	38.5	38.8	39.1	39.5	39.7	39.7	39.7
100°	47.5	48.2	48.9	49.6	50.0	50.2	50.5	50.7	51.0	51.0	51.0
102.5°	59.8	60.3	60.9	61.4	61.9	62.1	62.5	62.8	63.1	63.2	63.2
105°	79.7	79.9	80.1	80.4	80.6	80.8	81.0	81.1	81.3	81.4	81.6
107.5°	100.0	100.4	100.8	101.1	101.3	101.3	101.3	101.3	101.3	101.3	101.4
110°	113.2	113.7	114.1	114.6	114.9	114.9	114.9	114.9	114.9	114.9	114.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.3	127.8	128.3	128.8	129.1	129.0	128.9	128.8	128.7	128.6	128.4
115°	148.2	148.7	149.2	149.7	149.9	149.7	149.5	149.4	149.2	149.1	149.0
117.5°	169.3	169.9	170.6	171.2	171.3	170.9	170.4	169.9	169.5	169.3	169.1
120°	183.1	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5	182.5	182.5
122.5°	196.0	196.7	197.5	198.4	198.5	198.0	197.5	197.1	196.7	196.5	196.2
125°	215.7	216.5	217.2	217.9	218.2	217.9	217.7	217.4	217.2	217.0	216.7
127.5°	235.2	236.1	237.1	238.0	238.3	238.1	237.7	237.4	237.2	236.8	236.5
130°	247.4	248.5	249.6	250.6	251.1	250.9	250.8	250.6	250.5	250.3	250.1
132.5°	260.8	261.7	262.6	263.4	263.9	263.9	264.0	264.0	264.0	263.7	263.3
135°	279.1	280.0	280.9	281.8	282.3	282.4	282.6	282.7	282.9	282.8	282.7
137.5°	298.0	298.7	299.5	300.2	300.7	300.9	301.2	301.3	301.6	301.5	301.4
140°	309.6	310.3	311.0	311.8	312.3	312.7	313.2	313.6	314.0	314.0	314.0
142.5°	321.4	322.1	322.9	323.6	324.1	324.3	324.7	324.9	325.2	325.3	325.3
145°	338.2	338.8	339.3	339.9	340.5	341.0	341.4	341.9	342.4	342.5	342.6
147.5°	353.4	354.2	354.8	355.6	356.0	356.4	356.7	357.0	357.3	357.5	357.7
150°	363.6	364.1	364.6	365.1	365.5	365.8	366.2	366.5	366.8	367.0	367.3
152.5°	372.8	373.2	373.7	374.2	374.7	375.0	375.4	375.9	376.3	376.6	376.8
155°	386.2	386.5	386.8	387.0	387.3	387.5	387.8	388.0	388.2	388.7	389.1
157.5°	397.9	398.1	398.3	398.4	398.5	398.7	398.8	399.0	399.2	399.7	400.2
160°	405.0	405.2	405.4	405.5	405.6	405.7	405.8	405.9	405.9	406.4	406.9
162.5°	411.4	411.4	411.4	411.5	411.6	411.6	411.7	411.8	411.9	412.4	412.9
165°	419.9	419.8	419.7	419.6	419.6	419.6	419.6	419.6	419.6	420.2	420.8
167.5°	427.0	426.7	426.5	426.2	426.1	426.1	426.1	426.1	426.1	426.6	427.2
170°	430.8	430.6	430.3	430.1	429.9	429.8	429.7	429.7	429.6	430.2	430.7
172.5°	433.5	433.3	433.0	432.8	432.6	432.5	432.4	432.4	432.3	432.8	433.4
175°	436.8	436.5	436.3	436.0	435.8	435.6	435.5	435.3	435.1	435.7	436.3
177.5°	438.1	437.9	437.7	437.5	437.3	437.2	437.1	436.9	436.8	437.2	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	906.9	910.1	911.6	911.6	913.3	912.6	911.8
5°	959.0	964.8	966.0	971.5	975.5	974.3	974.9
7.5°	1010.9	1020.2	1029.4	1033.6	1034.3	1036.7	1037.6
10°	1042.8	1050.4	1064.7	1062.6	1073.3	1079.3	1069.3
12.5°	1073.5	1083.8	1093.7	1096.4	1102.4	1104.4	1100.4
15°	1101.2	1106.7	1107.3	1105.8	1107.7	1106.1	1100.3
17.5°	1075.3	1066.4	1048.4	1039.8	1033.1	1023.1	1019.1
20°	1032.4	1006.2	975.8	963.6	949.3	921.3	928.0
22.5°	939.9	910.0	879.6	844.0	827.0	800.5	798.9
25°	795.9	744.4	687.8	648.2	625.1	598.6	587.0
27.5°	618.8	554.0	507.6	484.1	462.7	441.7	440.8
30°	502.4	453.6	417.8	397.6	384.6	375.7	377.6
32.5°	423.5	390.0	365.8	349.2	339.5	332.8	332.7
35°	346.2	323.3	307.8	300.8	293.8	288.9	289.3
37.5°	296.3	282.5	273.9	266.2	261.8	259.4	258.0
40°	270.7	259.4	252.7	248.2	244.5	241.2	240.5
42.5°	250.5	241.2	234.4	230.8	227.5	225.0	224.5
45°	222.3	214.7	208.6	204.6	203.1	201.0	201.0
47.5°	197.7	190.2	185.5	183.0	180.3	179.0	178.9
50°	181.2	175.4	171.1	169.6	167.5	166.6	166.2
52.5°	166.3	162.0	158.9	157.9	156.9	155.8	156.0
55°	146.1	143.7	142.5	141.5	140.1	138.2	139.4
57.5°	129.1	127.1	123.8	120.9	119.5	118.2	118.7
60°	117.2	112.9	108.7	105.3	104.4	101.7	101.7
62.5°	102.2	96.1	90.9	89.0	88.1	86.8	86.6
65°	78.5	76.1	74.9	73.7	73.1	73.1	72.5
67.5°	65.1	64.1	62.8	62.5	61.9	61.7	61.5
70°	57.6	56.3	55.7	55.4	54.8	55.1	54.2
72.5°	50.2	49.2	49.2	48.3	48.0	48.0	47.4
75°	39.5	39.5	39.3	39.0	38.4	38.1	38.4
77.5°	30.4	30.5	29.9	29.9	29.8	29.9	29.6
80°	24.4	24.6	24.4	24.1	23.7	24.1	23.7
82.5°	19.2	18.8	18.8	18.7	18.7	18.4	18.4
85°	10.9	11.3	10.9	10.7	10.7	10.7	10.9
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.4
90°	12.5	12.3	12.2	12.3	12.4	12.5	12.6
92.5°	11.8	11.9	11.9	11.9	11.9	12.0	12.0
95°	23.6	23.6	23.6	23.4	23.2	23.1	22.9
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7
100°	51.0	51.0	51.0	50.9	50.8	50.7	50.6
102.5°	63.3	63.3	63.3	63.3	63.2	63.1	63.0
105°	81.8	81.9	82.0	82.0	82.0	82.0	82.0
107.5°	101.5	101.6	101.4	101.0	100.6	100.3	99.9
110°	114.9	114.9	114.7	114.5	114.2	114.0	113.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	128.2	128.0	127.8	127.6	127.4	127.3	127.1
115°	149.0	148.9	148.7	148.5	148.2	148.0	147.7
117.5°	168.8	168.7	168.4	168.2	168.0	167.7	167.5
120°	182.5	182.5	182.4	182.1	181.9	181.6	181.4
122.5°	196.1	195.8	195.7	195.5	195.3	195.1	194.9
125°	216.5	216.2	216.1	216.0	215.9	215.8	215.7
127.5°	236.3	235.9	235.7	235.4	235.1	234.9	234.6
130°	250.0	249.8	249.6	249.2	248.9	248.6	248.3
132.5°	262.9	262.6	262.3	262.0	261.7	261.5	261.2
135°	282.7	282.6	282.4	282.2	281.9	281.7	281.4
137.5°	301.3	301.3	301.1	300.8	300.4	300.1	299.8
140°	314.0	314.0	313.8	313.5	313.2	312.8	312.5
142.5°	325.4	325.5	325.3	325.0	324.7	324.3	324.0
145°	342.7	342.8	342.6	342.3	341.9	341.6	341.3
147.5°	357.9	358.1	358.0	357.7	357.3	357.0	356.8
150°	367.5	367.8	367.8	367.5	367.3	367.0	366.8
152.5°	377.2	377.5	377.5	377.2	376.8	376.6	376.3
155°	389.5	389.9	390.0	389.7	389.5	389.2	389.0
157.5°	400.8	401.4	401.5	401.0	400.6	400.3	399.9
160°	407.4	407.9	408.0	407.6	407.3	407.0	406.7
162.5°	413.5	414.1	414.2	413.8	413.4	412.9	412.6
165°	421.3	421.9	422.0	421.6	421.2	420.8	420.4
167.5°	427.8	428.4	428.4	428.0	427.5	427.1	426.7
170°	431.3	431.9	431.9	431.5	431.0	430.5	430.0
172.5°	434.0	434.6	434.6	434.1	433.6	433.1	432.6
175°	436.8	437.4	437.5	437.0	436.5	436.0	435.5
177.5°	438.0	438.4	438.4	438.0	437.7	437.2	436.8
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7

(END OF REPORT)