

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: P331786-927

Luminaire Tested: **S122RDIW-S485D435U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331786-927
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-S485D435U927-4F0-1E-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: 2662.3 lumens
Efficiency: N/A
Efficacy: 88.2 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

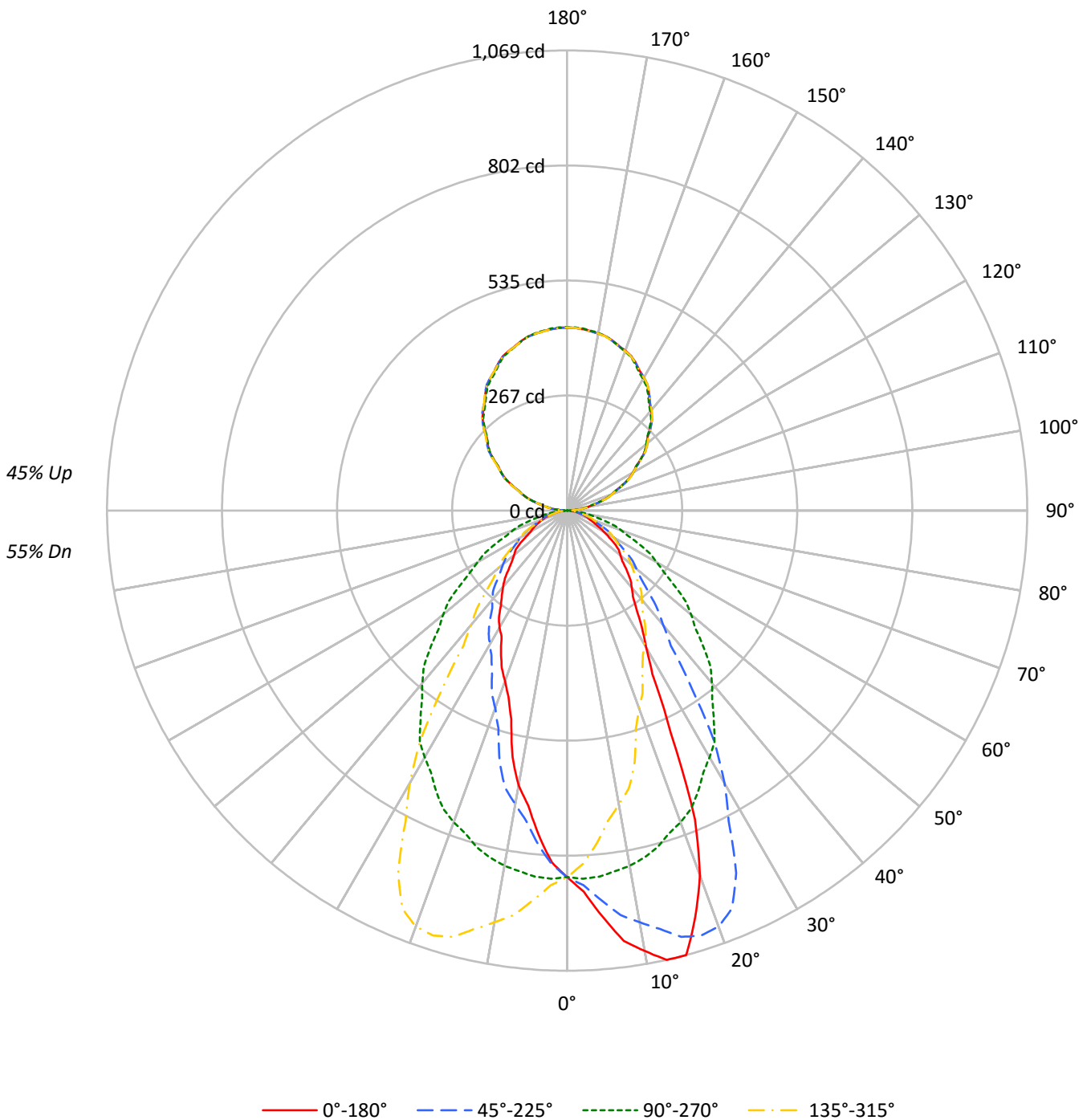
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13747	13747	13747	13747
5°	15352	13833	12266	13833
10°	17033	13736	10632	13736
15°	17870	13534	8376	13534
20°	15493	13235	7247	13235
25°	10162	12827	6472	12827
30°	6840	12333	5858	12333
35°	5541	11710	5282	11710
40°	4926	11030	4890	11030
45°	4459	10234	4364	10234
50°	4057	9445	4042	9445
55°	3814	8569	3764	8569
60°	3190	7766	3152	7766
65°	2690	7053	3053	7053
70°	2488	6297	2875	6297
75°	2327	5483	2658	5483
80°	2148	4510	2362	4510
85°	1964	3575	2075	3575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.0
10°-20°	224.9	8.4
20°-30°	289.8	10.9
30°-40°	275.4	10.3
40°-50°	235.9	8.9
50°-60°	179.7	6.7
60°-70°	113.6	4.3
70°-80°	56.7	2.1
80°-90°	16.5	0.6
90°-100°	27.0	1.0
100°-110°	83.7	3.1
110°-120°	143.1	5.4
120°-130°	188.1	7.1
130°-140°	211.2	7.9
140°-150°	207.1	7.8
150°-160°	173.7	6.5
160°-170°	115.2	4.3
170°-180°	40.3	1.5
0°-30°	595.4	22.4
0°-40°	870.8	32.7
0°-60°	1286.4	48.3
0°-90°	1473.1	55.3
90°-120°	253.7	9.5
90°-150°	860.1	32.3
90°-180°	1189.0	44.7
0°-180°	2662.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	851	851	851	851	851	
5°	947	854	757	854	947	93
15°	1069	810	501	810	1069	288
25°	570	720	363	720	570	271
35°	281	594	268	594	281	180
45°	195	448	191	448	195	151
55°	136	304	134	304	136	119
65°	70	185	80	185	70	72
75°	37	88	43	88	37	40
85°	11	19	11	19	11	12
90°	12	0	12	0	12	6
95°	22	19	22	19	22	25
105°	80	77	80	77	80	84
115°	144	144	144	144	144	142
125°	210	209	210	209	210	187
135°	274	270	274	270	274	211
145°	332	328	332	328	332	207
155°	378	375	378	375	378	174
165°	408	408	408	408	408	115
175°	423	425	423	425	423	40
180°	425	425	425	425	425	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	886.0	886.7	887.4	885.7	885.7	884.3	881.2	878.8	872.2	871.2	871.2
5°	947.2	946.7	947.8	944.0	938.7	937.5	931.8	924.5	916.8	908.2	906.4
7.5°	1008.2	1007.3	1005.0	1004.2	1000.2	991.3	982.2	972.6	959.8	947.3	941.0
10°	1038.9	1048.7	1042.8	1032.5	1034.5	1020.6	1013.2	1000.5	989.8	971.2	967.1
12.5°	1069.2	1073.1	1071.2	1065.3	1062.7	1053.0	1043.1	1032.0	1012.3	995.6	981.0
15°	1069.1	1074.8	1076.3	1074.4	1075.9	1075.3	1070.0	1060.8	1043.7	1025.3	1009.4
17.5°	990.2	994.1	1003.8	1010.3	1018.7	1036.2	1044.8	1048.2	1045.6	1035.1	1023.9
20°	901.7	895.2	922.4	936.3	948.2	977.7	1003.1	1012.9	1028.6	1028.3	1025.3
22.5°	776.3	777.8	803.6	820.1	854.7	884.2	913.2	950.0	980.3	1000.4	1012.1
25°	570.4	581.6	607.4	629.8	668.3	723.3	773.3	831.3	886.0	929.2	970.3
27.5°	428.3	429.2	449.6	470.4	493.2	538.3	601.3	670.5	748.5	812.9	886.9
30°	366.9	365.0	373.7	386.3	405.9	440.8	488.1	556.2	634.0	731.0	817.4
32.5°	323.3	323.4	329.9	339.3	355.5	379.0	411.5	466.7	540.3	635.6	736.9
35°	281.1	280.7	285.5	292.3	299.0	314.2	336.4	365.4	416.0	505.0	608.6
37.5°	250.7	252.1	254.4	258.6	266.1	274.5	287.9	307.3	343.3	396.0	483.0
40°	233.7	234.3	237.6	241.1	245.6	252.1	263.0	278.7	305.0	347.0	410.6
42.5°	218.1	218.6	221.0	224.3	227.8	234.3	243.4	256.9	278.3	311.0	363.5
45°	195.3	195.3	197.3	198.8	202.6	208.6	215.9	227.2	242.0	266.3	301.2
47.5°	173.8	173.9	175.2	177.8	180.2	184.8	192.1	201.3	212.1	230.8	260.6
50°	161.5	161.8	162.7	164.8	166.3	170.4	176.0	184.0	195.3	209.8	234.6
52.5°	151.5	151.4	152.5	153.4	154.4	157.4	161.6	168.7	178.7	191.3	211.9
55°	135.5	134.3	136.1	137.5	138.5	139.7	142.0	146.5	155.0	165.6	181.0
57.5°	115.3	114.9	116.1	117.5	120.3	123.5	125.5	128.3	132.8	140.4	155.7
60°	98.8	98.8	101.5	102.3	105.6	109.7	113.9	116.3	120.7	125.7	137.0
62.5°	84.1	84.4	85.6	86.5	88.3	93.4	99.3	104.4	108.6	113.4	120.9
65°	70.4	71.0	71.0	71.6	72.8	74.0	76.3	80.5	87.9	94.7	100.3
67.5°	59.7	60.0	60.1	60.7	61.0	62.3	63.2	65.1	66.8	73.3	80.2
70°	52.7	53.6	53.2	53.9	54.1	54.7	55.9	56.8	59.5	60.9	65.1
72.5°	46.0	46.7	46.7	47.0	47.8	47.8	48.8	49.7	51.4	52.7	54.9
75°	37.3	37.0	37.3	37.9	38.2	38.4	38.4	39.6	40.6	41.7	43.2
77.5°	28.8	29.1	29.0	29.1	29.1	29.6	29.5	30.1	31.0	31.6	32.3
80°	23.1	23.4	23.1	23.4	23.7	23.9	23.7	23.9	24.9	25.4	25.4
82.5°	17.9	17.9	18.1	18.1	18.2	18.3	18.7	18.8	19.4	19.3	19.5
85°	10.6	10.4	10.4	10.4	10.6	10.9	10.6	10.6	10.9	10.9	10.9
87.5°	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.7	6.5	6.7	6.2
90°	12.2	12.1	12.0	12.0	11.9	12.0	12.1	12.3	12.4	12.6	10.8
92.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.5	11.4	11.4	11.0
95°	22.3	22.4	22.6	22.7	22.9	23.0	23.0	23.0	23.0	23.0	22.8
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.3
100°	49.2	49.3	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.3
102.5°	61.2	61.3	61.4	61.5	61.6	61.6	61.5	61.4	61.4	61.3	61.0
105°	79.7	79.7	79.7	79.7	79.7	79.6	79.5	79.3	79.1	79.0	78.8
107.5°	97.0	97.4	97.8	98.2	98.5	98.7	98.6	98.5	98.5	98.4	98.4
110°	110.5	110.7	111.0	111.2	111.5	111.6	111.6	111.6	111.6	111.6	111.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	123.5	123.7	123.8	124.0	124.1	124.4	124.5	124.8	124.9	125.1	125.2
115°	143.5	143.8	144.0	144.3	144.5	144.7	144.7	144.8	144.9	145.0	145.1
117.5°	162.7	163.0	163.2	163.4	163.7	163.9	164.1	164.3	164.5	164.7	165.1
120°	176.3	176.5	176.7	177.0	177.2	177.3	177.3	177.3	177.3	177.3	177.9
122.5°	189.4	189.6	189.8	190.0	190.1	190.3	190.5	190.7	190.9	191.1	191.5
125°	209.6	209.7	209.8	209.8	209.9	210.1	210.3	210.6	210.8	211.0	211.3
127.5°	228.0	228.2	228.5	228.7	229.0	229.3	229.6	229.8	230.1	230.4	230.7
130°	241.2	241.5	241.9	242.2	242.5	242.7	242.9	243.0	243.2	243.4	243.5
132.5°	253.8	254.1	254.3	254.6	254.8	255.2	255.5	255.9	256.2	256.5	256.5
135°	273.5	273.7	273.9	274.2	274.4	274.6	274.6	274.7	274.8	274.9	274.7
137.5°	291.3	291.6	291.9	292.2	292.6	292.8	292.8	292.9	292.9	293.0	292.8
140°	303.6	304.0	304.3	304.6	304.9	305.1	305.1	305.1	305.1	305.1	304.7
142.5°	314.8	315.1	315.4	315.8	316.1	316.2	316.2	316.1	316.1	316.0	315.7
145°	331.6	331.9	332.2	332.6	332.9	333.0	333.0	332.9	332.8	332.7	332.2
147.5°	346.7	346.9	347.2	347.5	347.8	347.9	347.8	347.5	347.4	347.2	346.9
150°	356.4	356.6	356.9	357.1	357.4	357.4	357.1	356.9	356.6	356.4	356.1
152.5°	365.6	365.9	366.1	366.5	366.8	366.8	366.5	366.1	365.9	365.6	365.2
155°	378.0	378.2	378.4	378.7	378.9	378.8	378.4	378.0	377.6	377.2	377.0
157.5°	388.6	389.0	389.3	389.7	390.1	390.0	389.4	388.9	388.4	387.9	387.7
160°	395.1	395.5	395.8	396.1	396.4	396.3	395.9	395.4	394.9	394.4	394.3
162.5°	400.9	401.2	401.6	402.0	402.4	402.3	401.8	401.2	400.7	400.2	400.1
165°	408.4	408.8	409.2	409.6	410.0	410.0	409.4	408.8	408.3	407.7	407.7
167.5°	414.6	415.0	415.4	415.8	416.3	416.2	415.7	415.1	414.5	414.0	414.0
170°	417.8	418.3	418.7	419.2	419.7	419.6	419.1	418.5	418.0	417.4	417.5
172.5°	420.3	420.8	421.3	421.8	422.2	422.2	421.7	421.1	420.6	420.0	420.1
175°	423.2	423.7	424.1	424.6	425.1	425.0	424.5	423.9	423.3	422.8	422.9
177.5°	424.5	424.8	425.2	425.6	426.0	426.0	425.6	425.2	424.8	424.5	424.5
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	871.7	869.9	868.2	864.0	861.8	857.1	856.3	856.1	850.0	844.1	842.4
5°	901.7	897.0	889.9	881.5	873.0	864.1	858.2	853.5	841.6	830.4	823.9
7.5°	931.8	921.7	909.4	893.7	880.7	866.0	855.2	845.3	828.5	812.5	801.6
10°	954.3	937.8	921.5	899.9	883.0	866.5	851.1	837.8	818.9	797.6	782.4
12.5°	968.3	950.1	927.6	906.6	884.7	863.6	843.0	825.9	803.7	781.7	763.7
15°	987.2	967.7	940.5	910.3	882.2	854.7	831.0	809.7	780.7	754.4	732.5
17.5°	1002.7	975.7	946.5	911.6	879.1	844.1	813.7	786.4	754.2	722.4	696.6
20°	1007.6	981.0	947.2	912.4	873.9	832.7	799.9	770.3	735.7	701.1	671.5
22.5°	1004.5	983.8	946.3	904.5	865.1	822.1	785.1	750.7	712.3	677.0	642.7
25°	983.7	976.5	941.0	895.5	850.5	800.5	757.6	720.0	676.3	638.4	601.1
27.5°	934.9	950.3	928.3	879.7	829.7	776.1	727.9	685.2	639.7	597.1	559.9
30°	888.1	923.3	913.8	868.9	812.9	760.3	706.2	661.5	613.0	569.2	532.5
32.5°	823.9	882.1	891.4	853.7	795.9	738.0	681.3	636.8	586.2	540.0	504.3
35°	721.8	808.8	848.7	824.7	766.8	704.4	645.8	594.1	543.1	497.6	462.1
37.5°	600.0	718.4	785.1	786.7	733.5	668.6	604.8	553.4	501.3	456.6	418.2
40°	520.9	649.4	736.0	755.3	710.3	640.2	575.7	523.3	472.5	428.6	384.6
42.5°	450.0	577.9	684.4	717.9	682.1	612.5	547.8	493.1	443.5	402.1	357.1
45°	363.8	475.7	593.1	652.9	633.1	568.5	500.3	448.2	401.7	365.9	322.7
47.5°	307.0	385.8	499.4	580.3	579.9	521.0	453.8	403.9	360.8	327.3	292.3
50°	274.5	343.2	439.3	531.0	538.7	489.3	425.4	376.0	335.8	300.6	272.4
52.5°	245.4	302.0	388.4	476.3	498.2	455.4	393.5	347.8	308.8	276.4	252.3
55°	207.4	251.1	316.9	399.1	432.2	402.0	347.0	304.4	272.7	245.6	224.8
57.5°	175.4	208.3	260.9	327.2	365.8	346.7	301.4	266.8	239.7	215.1	198.8
60°	155.3	182.2	226.9	282.3	324.8	311.5	272.7	240.5	217.5	196.1	180.8
62.5°	136.4	159.5	197.8	242.7	281.8	276.2	244.6	217.5	197.3	177.9	164.9
65°	109.7	126.6	156.5	191.7	223.1	225.7	203.0	184.6	166.5	151.1	139.7
67.5°	87.4	98.4	119.5	149.1	172.6	181.0	167.1	153.0	138.7	126.8	116.8
70°	73.7	82.5	97.9	121.9	143.5	152.3	144.3	133.4	121.0	111.2	102.7
72.5°	59.7	68.4	79.7	97.3	115.8	125.4	122.6	114.7	104.6	96.6	88.5
75°	45.0	47.6	55.3	67.2	81.7	89.9	92.0	87.9	79.9	73.7	68.9
77.5°	33.3	34.9	38.5	44.8	54.2	61.6	64.6	64.2	58.6	55.1	50.6
80°	26.6	27.5	29.3	31.9	39.1	46.4	48.5	48.5	44.7	43.2	38.7
82.5°	20.2	20.9	21.9	23.4	26.8	33.2	35.5	36.0	33.5	31.6	28.1
85°	11.6	11.2	11.8	12.8	13.3	15.1	18.6	19.3	18.6	16.2	15.4
87.5°	5.9	5.7	5.4	4.8	4.9	5.0	5.9	7.0	6.2	5.6	5.4
90°	9.0	7.3	5.5	4.2	3.2	2.3	1.3	0.4	1.3	2.3	3.2
92.5°	10.6	10.1	9.7	9.2	8.5	7.8	7.1	6.4	7.1	7.8	8.5
95°	22.7	22.5	22.3	21.9	21.1	20.3	19.5	18.7	19.5	20.3	21.1
97.5°	38.0	37.7	37.4	36.9	36.2	35.5	34.8	34.1	34.8	35.5	36.2
100°	49.0	48.8	48.6	48.2	47.5	46.8	46.2	45.6	46.2	46.8	47.5
102.5°	60.7	60.4	60.1	59.7	59.2	58.6	58.1	57.7	58.1	58.6	59.2
105°	78.7	78.5	78.3	78.1	77.9	77.6	77.4	77.2	77.4	77.6	77.9
107.5°	98.4	98.4	98.4	98.2	97.9	97.5	97.2	96.8	97.2	97.5	97.9
110°	111.6	111.6	111.6	111.4	110.9	110.4	110.0	109.5	110.0	110.4	110.9



TEST NUMBER: P331786-927

CATALOG NUMBER: S122RDIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	125.2	125.3	125.4	125.2	124.7	124.2	123.7	123.3	123.7	124.2	124.7
115°	145.3	145.4	145.6	145.4	145.0	144.5	144.0	143.5	144.0	144.5	145.0
117.5°	165.6	166.0	166.4	166.4	165.7	165.1	164.5	163.8	164.5	165.1	165.7
120°	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3	177.9	178.6	179.2
122.5°	191.9	192.4	192.9	192.7	191.9	191.2	190.4	189.6	190.4	191.2	191.9
125°	211.5	211.8	212.0	211.8	211.0	210.3	209.6	208.9	209.6	210.3	211.0
127.5°	231.0	231.3	231.6	231.2	230.4	229.4	228.5	227.6	228.5	229.4	230.4
130°	243.7	243.8	244.0	243.5	242.5	241.5	240.4	239.4	240.4	241.5	242.5
132.5°	256.5	256.4	256.4	256.0	255.2	254.3	253.4	252.6	253.4	254.3	255.2
135°	274.6	274.4	274.3	273.8	272.9	272.0	271.2	270.3	271.2	272.0	272.9
137.5°	292.6	292.4	292.2	291.7	291.0	290.3	289.5	288.8	289.5	290.3	291.0
140°	304.3	303.9	303.5	302.9	302.2	301.5	300.8	300.1	300.8	301.5	302.2
142.5°	315.4	315.1	314.9	314.4	313.7	313.0	312.3	311.6	312.3	313.0	313.7
145°	331.8	331.3	330.8	330.3	329.7	329.2	328.6	328.0	328.6	329.2	329.7
147.5°	346.6	346.3	345.9	345.5	344.8	344.1	343.4	342.8	343.4	344.1	344.8
150°	355.8	355.5	355.1	354.7	354.3	353.8	353.3	352.8	353.3	353.8	354.3
152.5°	364.8	364.4	364.1	363.6	363.1	362.7	362.2	361.7	362.2	362.7	363.1
155°	376.8	376.5	376.3	376.0	375.8	375.5	375.3	375.0	375.3	375.5	375.8
157.5°	387.5	387.4	387.2	387.1	387.0	386.8	386.7	386.5	386.7	386.8	387.0
160°	394.3	394.2	394.1	394.0	393.9	393.7	393.6	393.4	393.6	393.7	393.9
162.5°	400.1	400.0	399.9	399.8	399.7	399.7	399.7	399.7	399.7	399.7	399.7
165°	407.7	407.7	407.7	407.7	407.8	407.9	408.0	408.1	408.0	407.9	407.8
167.5°	414.0	414.0	414.0	414.2	414.4	414.6	414.9	415.1	414.9	414.6	414.4
170°	417.6	417.6	417.7	417.9	418.1	418.4	418.6	418.8	418.6	418.4	418.1
172.5°	420.2	420.3	420.3	420.5	420.7	421.0	421.2	421.4	421.2	421.0	420.7
175°	423.1	423.3	423.4	423.7	423.9	424.1	424.4	424.6	424.4	424.1	423.9
177.5°	424.7	424.8	424.9	425.1	425.3	425.5	425.7	425.9	425.7	425.5	425.3
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331786-927

CATALOG NUMBER: S122RDIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	839.3	837.7	834.6	829.9	827.0	822.0	818.7	820.6	821.1	820.6	820.1
5°	816.8	810.6	802.0	793.7	786.0	777.8	773.0	771.0	766.8	764.5	763.3
7.5°	789.5	778.8	766.7	752.3	740.0	727.1	720.6	717.3	708.8	704.3	700.2
10°	769.1	752.3	740.1	721.2	709.7	692.8	681.3	681.6	670.0	663.5	658.8
12.5°	746.7	728.2	708.0	690.9	674.9	661.4	647.5	641.8	629.5	623.3	610.5
15°	709.4	687.8	666.5	643.4	627.2	606.2	586.1	561.5	541.7	524.5	519.8
17.5°	668.7	642.0	620.6	593.5	565.6	530.3	507.0	492.7	480.8	471.7	465.0
20°	640.8	613.5	590.8	549.9	512.4	488.4	471.3	460.3	447.9	438.2	432.8
22.5°	611.4	583.0	552.0	506.4	477.1	457.9	442.6	430.0	421.6	414.0	409.2
25°	569.7	538.7	487.5	456.1	432.5	412.4	401.7	394.0	385.2	374.8	370.1
27.5°	525.8	476.3	439.6	416.3	393.7	380.6	371.1	359.6	351.6	347.0	342.1
30°	492.8	443.5	414.8	389.3	373.4	358.9	347.6	341.1	333.4	325.4	322.2
32.5°	456.1	416.7	389.2	368.0	351.8	339.5	330.6	320.0	314.5	309.6	302.8
35°	410.6	380.7	355.6	338.4	323.1	313.0	302.6	296.4	286.4	282.3	279.6
37.5°	372.0	346.1	327.3	309.3	297.1	286.0	279.6	269.7	265.4	259.6	254.0
40°	350.2	324.8	306.8	292.0	278.4	270.1	262.1	254.1	247.6	244.9	238.1
42.5°	328.0	307.3	289.2	273.1	264.0	255.2	245.1	239.2	232.4	228.1	223.9
45°	297.3	279.0	263.6	250.3	240.2	231.1	224.5	214.8	211.0	202.3	198.8
47.5°	270.3	253.3	238.6	225.9	216.1	210.2	200.7	193.0	186.9	181.6	177.1
50°	251.1	236.9	222.8	211.5	202.6	194.1	184.3	180.5	171.0	168.3	165.6
52.5°	233.6	220.1	207.2	196.1	187.3	179.0	170.3	165.3	158.9	156.2	154.3
55°	209.1	196.1	183.7	174.0	165.1	156.5	151.1	145.0	142.0	139.9	137.5
57.5°	184.5	172.9	163.3	153.4	144.5	137.7	131.5	127.8	124.7	122.0	119.1
60°	168.9	157.6	149.1	139.9	130.8	125.2	120.4	116.0	112.4	108.3	107.1
62.5°	152.3	142.5	134.7	125.7	117.7	112.6	108.1	103.9	99.7	93.6	92.0
65°	129.6	121.9	113.6	106.2	99.1	94.1	87.5	82.9	81.0	80.5	80.2
67.5°	109.0	101.7	94.6	87.1	80.6	75.9	72.6	71.9	70.7	70.3	69.5
70°	95.2	88.5	81.4	74.2	68.0	67.2	66.0	64.8	63.3	62.7	62.1
72.5°	82.9	75.9	68.8	63.1	60.4	59.3	58.1	57.0	56.0	55.4	55.1
75°	63.6	57.1	52.4	50.3	48.8	47.9	46.2	45.2	44.7	43.8	43.5
77.5°	45.8	42.1	39.9	38.7	37.1	36.1	35.2	34.2	33.6	33.4	33.0
80°	34.9	33.1	31.7	29.9	29.3	28.1	27.8	26.9	27.3	26.3	26.3
82.5°	27.1	24.9	23.6	22.8	22.2	21.2	20.9	20.5	20.6	20.0	20.0
85°	13.9	13.3	12.8	12.1	12.1	11.2	11.6	11.2	11.2	10.6	10.4
87.5°	5.3	5.4	5.2	5.6	5.9	6.1	6.0	5.8	5.7	5.7	5.5
90°	4.2	5.5	7.3	9.0	10.8	12.6	12.4	12.3	12.1	12.0	11.9
92.5°	9.2	9.7	10.1	10.6	11.0	11.4	11.4	11.5	11.5	11.6	11.6
95°	21.9	22.3	22.5	22.7	22.8	23.0	23.0	23.0	23.0	23.0	22.9
97.5°	36.9	37.4	37.7	38.0	38.3	38.6	38.6	38.6	38.6	38.6	38.6
100°	48.2	48.6	48.8	49.0	49.3	49.5	49.5	49.5	49.5	49.5	49.5
102.5°	59.7	60.1	60.4	60.7	61.0	61.3	61.4	61.4	61.5	61.6	61.6
105°	78.1	78.3	78.5	78.7	78.8	79.0	79.1	79.3	79.5	79.6	79.7
107.5°	98.2	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.6	98.7	98.5
110°	111.4	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.5



TEST NUMBER: P331786-927

CATALOG NUMBER: S122RDIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	125.2	125.4	125.3	125.2	125.2	125.1	124.9	124.8	124.5	124.4	124.1
115°	145.4	145.6	145.4	145.3	145.1	145.0	144.9	144.8	144.7	144.7	144.5
117.5°	166.4	166.4	166.0	165.6	165.1	164.7	164.5	164.3	164.1	163.9	163.7
120°	179.8	179.8	179.2	178.6	177.9	177.3	177.3	177.3	177.3	177.3	177.2
122.5°	192.7	192.9	192.4	191.9	191.5	191.1	190.9	190.7	190.5	190.3	190.1
125°	211.8	212.0	211.8	211.5	211.3	211.0	210.8	210.6	210.3	210.1	209.9
127.5°	231.2	231.6	231.3	231.0	230.7	230.4	230.1	229.8	229.6	229.3	229.0
130°	243.5	244.0	243.8	243.7	243.5	243.4	243.2	243.0	242.9	242.7	242.5
132.5°	256.0	256.4	256.4	256.5	256.5	256.5	256.2	255.9	255.5	255.2	254.8
135°	273.8	274.3	274.4	274.6	274.7	274.9	274.8	274.7	274.6	274.6	274.4
137.5°	291.7	292.2	292.4	292.6	292.8	293.0	292.9	292.9	292.8	292.8	292.6
140°	302.9	303.5	303.9	304.3	304.7	305.1	305.1	305.1	305.1	305.1	304.9
142.5°	314.4	314.9	315.1	315.4	315.7	316.0	316.1	316.1	316.2	316.2	316.1
145°	330.3	330.8	331.3	331.8	332.2	332.7	332.8	332.9	333.0	333.0	332.9
147.5°	345.5	345.9	346.3	346.6	346.9	347.2	347.4	347.5	347.8	347.9	347.8
150°	354.7	355.1	355.5	355.8	356.1	356.4	356.6	356.9	357.1	357.4	357.4
152.5°	363.6	364.1	364.4	364.8	365.2	365.6	365.9	366.1	366.5	366.8	366.8
155°	376.0	376.3	376.5	376.8	377.0	377.2	377.6	378.0	378.4	378.8	378.9
157.5°	387.1	387.2	387.4	387.5	387.7	387.9	388.4	388.9	389.4	390.0	390.1
160°	394.0	394.1	394.2	394.3	394.3	394.4	394.9	395.4	395.9	396.3	396.4
162.5°	399.8	399.9	400.0	400.1	400.1	400.2	400.7	401.2	401.8	402.3	402.4
165°	407.7	407.7	407.7	407.7	407.7	407.7	408.3	408.8	409.4	410.0	410.0
167.5°	414.2	414.0	414.0	414.0	414.0	414.0	414.5	415.1	415.7	416.2	416.3
170°	417.9	417.7	417.6	417.6	417.5	417.4	418.0	418.5	419.1	419.6	419.7
172.5°	420.5	420.3	420.3	420.2	420.1	420.0	420.6	421.1	421.7	422.2	422.2
175°	423.7	423.4	423.3	423.1	422.9	422.8	423.3	423.9	424.5	425.0	425.1
177.5°	425.1	424.9	424.8	424.7	424.5	424.5	424.8	425.2	425.6	426.0	426.0
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331786-927

CATALOG NUMBER: S122RDIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	817.5	818.0	817.3	817.8	817.3	818.0	817.5	820.1	820.6	821.1	820.6
5°	761.8	758.2	757.6	756.8	757.6	758.2	761.8	763.3	764.5	766.8	771.0
7.5°	695.1	694.6	693.2	691.0	693.2	694.6	695.1	700.2	704.3	708.8	717.3
10°	652.3	650.9	650.5	648.5	650.5	650.9	652.3	658.8	663.5	670.0	681.6
12.5°	602.1	592.6	591.6	586.5	591.6	592.6	602.1	610.5	623.3	629.5	641.8
15°	512.7	510.9	505.0	501.1	505.0	510.9	512.7	519.8	524.5	541.7	561.5
17.5°	461.5	455.7	453.9	453.1	453.9	455.7	461.5	465.0	471.7	480.8	492.7
20°	428.6	423.3	422.5	421.8	422.5	423.3	428.6	432.8	438.2	447.9	460.3
22.5°	405.9	400.4	398.1	396.3	398.1	400.4	405.9	409.2	414.0	421.6	430.0
25°	367.1	365.0	363.8	363.3	363.8	365.0	367.1	370.1	374.8	385.2	394.0
27.5°	336.8	332.2	331.3	329.8	331.3	332.2	336.8	342.1	347.0	351.6	359.6
30°	319.5	318.0	315.9	314.2	315.9	318.0	319.5	322.2	325.4	333.4	341.1
32.5°	299.1	297.9	296.0	295.2	296.0	297.9	299.1	302.8	309.6	314.5	320.0
35°	276.6	272.4	270.7	268.0	270.7	272.4	276.6	279.6	282.3	286.4	296.4
37.5°	252.8	250.6	248.1	249.0	248.1	250.6	252.8	254.0	259.6	265.4	269.7
40°	234.3	232.8	232.2	232.0	232.2	232.8	234.3	238.1	244.9	247.6	254.1
42.5°	219.6	215.6	214.0	214.0	214.0	215.6	219.6	223.9	228.1	232.4	239.2
45°	197.3	193.5	190.8	191.1	190.8	193.5	197.3	198.8	202.3	211.0	214.8
47.5°	174.5	174.4	172.7	173.3	172.7	174.4	174.5	177.1	181.6	186.9	193.0
50°	163.6	161.8	160.7	160.9	160.7	161.8	163.6	165.6	168.3	171.0	180.5
52.5°	153.2	151.6	150.7	151.9	150.7	151.6	153.2	154.3	156.2	158.9	165.3
55°	136.1	134.3	134.0	133.7	134.0	134.3	136.1	137.5	139.9	142.0	145.0
57.5°	117.0	115.8	114.0	113.3	114.0	115.8	117.0	119.1	122.0	124.7	127.8
60°	103.2	100.8	97.9	97.6	97.9	100.8	103.2	107.1	108.3	112.4	116.0
62.5°	90.7	90.2	89.7	89.6	89.7	90.2	90.7	92.0	93.6	99.7	103.9
65°	79.6	79.3	79.6	79.9	79.6	79.3	79.6	80.2	80.5	81.0	82.9
67.5°	69.3	68.8	68.3	68.5	68.3	68.8	69.3	69.5	70.3	70.7	71.9
70°	61.6	61.2	60.9	60.9	60.9	61.2	61.6	62.1	62.7	63.3	64.8
72.5°	53.9	53.9	53.6	53.4	53.6	53.9	53.9	55.1	55.4	56.0	57.0
75°	43.2	42.6	42.6	42.6	42.6	42.6	43.2	43.5	43.8	44.7	45.2
77.5°	32.9	32.6	32.3	32.1	32.3	32.6	32.9	33.0	33.4	33.6	34.2
80°	26.1	25.7	25.4	25.4	25.4	25.7	26.1	26.3	26.3	27.3	26.9
82.5°	19.9	19.6	19.5	19.3	19.5	19.6	19.9	20.0	20.0	20.6	20.5
85°	10.6	10.9	10.6	11.2	10.6	10.9	10.6	10.4	10.6	11.2	11.2
87.5°	5.5	5.2	5.5	5.3	5.5	5.2	5.5	5.5	5.7	5.7	5.8
90°	12.0	12.0	12.1	12.2	12.1	12.0	12.0	11.9	12.0	12.1	12.3
92.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.5
95°	22.7	22.6	22.4	22.3	22.4	22.6	22.7	22.9	23.0	23.0	23.0
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
100°	49.4	49.4	49.3	49.2	49.3	49.4	49.4	49.5	49.5	49.5	49.5
102.5°	61.5	61.4	61.3	61.2	61.3	61.4	61.5	61.6	61.6	61.5	61.4
105°	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.6	79.5	79.3
107.5°	98.2	97.8	97.4	97.0	97.4	97.8	98.2	98.5	98.7	98.6	98.5
110°	111.2	111.0	110.7	110.5	110.7	111.0	111.2	111.5	111.6	111.6	111.6



TEST NUMBER: P331786-927

CATALOG NUMBER: S122RDIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	124.0	123.8	123.7	123.5	123.7	123.8	124.0	124.1	124.4	124.5	124.8
115°	144.3	144.0	143.8	143.5	143.8	144.0	144.3	144.5	144.7	144.7	144.8
117.5°	163.4	163.2	163.0	162.7	163.0	163.2	163.4	163.7	163.9	164.1	164.3
120°	177.0	176.7	176.5	176.3	176.5	176.7	177.0	177.2	177.3	177.3	177.3
122.5°	190.0	189.8	189.6	189.4	189.6	189.8	190.0	190.1	190.3	190.5	190.7
125°	209.8	209.8	209.7	209.6	209.7	209.8	209.8	209.9	210.1	210.3	210.6
127.5°	228.7	228.5	228.2	228.0	228.2	228.5	228.7	229.0	229.3	229.6	229.8
130°	242.2	241.9	241.5	241.2	241.5	241.9	242.2	242.5	242.7	242.9	243.0
132.5°	254.6	254.3	254.1	253.8	254.1	254.3	254.6	254.8	255.2	255.5	255.9
135°	274.2	273.9	273.7	273.5	273.7	273.9	274.2	274.4	274.6	274.6	274.7
137.5°	292.2	291.9	291.6	291.3	291.6	291.9	292.2	292.6	292.8	292.8	292.9
140°	304.6	304.3	304.0	303.6	304.0	304.3	304.6	304.9	305.1	305.1	305.1
142.5°	315.8	315.4	315.1	314.8	315.1	315.4	315.8	316.1	316.2	316.2	316.1
145°	332.6	332.2	331.9	331.6	331.9	332.2	332.6	332.9	333.0	333.0	332.9
147.5°	347.5	347.2	346.9	346.7	346.9	347.2	347.5	347.8	347.9	347.8	347.5
150°	357.1	356.9	356.6	356.4	356.6	356.9	357.1	357.4	357.4	357.1	356.9
152.5°	366.5	366.1	365.9	365.6	365.9	366.1	366.5	366.8	366.8	366.5	366.1
155°	378.7	378.4	378.2	378.0	378.2	378.4	378.7	378.9	378.8	378.4	378.0
157.5°	389.7	389.3	389.0	388.6	389.0	389.3	389.7	390.1	390.0	389.4	388.9
160°	396.1	395.8	395.5	395.1	395.5	395.8	396.1	396.4	396.3	395.9	395.4
162.5°	402.0	401.6	401.2	400.9	401.2	401.6	402.0	402.4	402.3	401.8	401.2
165°	409.6	409.2	408.8	408.4	408.8	409.2	409.6	410.0	410.0	409.4	408.8
167.5°	415.8	415.4	415.0	414.6	415.0	415.4	415.8	416.3	416.2	415.7	415.1
170°	419.2	418.7	418.3	417.8	418.3	418.7	419.2	419.7	419.6	419.1	418.5
172.5°	421.8	421.3	420.8	420.3	420.8	421.3	421.8	422.2	422.2	421.7	421.1
175°	424.6	424.1	423.7	423.2	423.7	424.1	424.6	425.1	425.0	424.5	423.9
177.5°	425.6	425.2	424.8	424.5	424.8	425.2	425.6	426.0	426.0	425.6	425.2
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331786-927

CATALOG NUMBER: S122RDIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	818.7	822.0	827.0	829.9	834.6	837.7	839.3	842.4	844.1	850.0	856.1
5°	773.0	777.8	786.0	793.7	802.0	810.6	816.8	823.9	830.4	841.6	853.5
7.5°	720.6	727.1	740.0	752.3	766.7	778.8	789.5	801.6	812.5	828.5	845.3
10°	681.3	692.8	709.7	721.2	740.1	752.3	769.1	782.4	797.6	818.9	837.8
12.5°	647.5	661.4	674.9	690.9	708.0	728.2	746.7	763.7	781.7	803.7	825.9
15°	586.1	606.2	627.2	643.4	666.5	687.8	709.4	732.5	754.4	780.7	809.7
17.5°	507.0	530.3	565.6	593.5	620.6	642.0	668.7	696.6	722.4	754.2	786.4
20°	471.3	488.4	512.4	549.9	590.8	613.5	640.8	671.5	701.1	735.7	770.3
22.5°	442.6	457.9	477.1	506.4	552.0	583.0	611.4	642.7	677.0	712.3	750.7
25°	401.7	412.4	432.5	456.1	487.5	538.7	569.7	601.1	638.4	676.3	720.0
27.5°	371.1	380.6	393.7	416.3	439.6	476.3	525.8	559.9	597.1	639.7	685.2
30°	347.6	358.9	373.4	389.3	414.8	443.5	492.8	532.5	569.2	613.0	661.5
32.5°	330.6	339.5	351.8	368.0	389.2	416.7	456.1	504.3	540.0	586.2	636.8
35°	302.6	313.0	323.1	338.4	355.6	380.7	410.6	462.1	497.6	543.1	594.1
37.5°	279.6	286.0	297.1	309.3	327.3	346.1	372.0	418.2	456.6	501.3	553.4
40°	262.1	270.1	278.4	292.0	306.8	324.8	350.2	384.6	428.6	472.5	523.3
42.5°	245.1	255.2	264.0	273.1	289.2	307.3	328.0	357.1	402.1	443.5	493.1
45°	224.5	231.1	240.2	250.3	263.6	279.0	297.3	322.7	365.9	401.7	448.2
47.5°	200.7	210.2	216.1	225.9	238.6	253.3	270.3	292.3	327.3	360.8	403.9
50°	184.3	194.1	202.6	211.5	222.8	236.9	251.1	272.4	300.6	335.8	376.0
52.5°	170.3	179.0	187.3	196.1	207.2	220.1	233.6	252.3	276.4	308.8	347.8
55°	151.1	156.5	165.1	174.0	183.7	196.1	209.1	224.8	245.6	272.7	304.4
57.5°	131.5	137.7	144.5	153.4	163.3	172.9	184.5	198.8	215.1	239.7	266.8
60°	120.4	125.2	130.8	139.9	149.1	157.6	168.9	180.8	196.1	217.5	240.5
62.5°	108.1	112.6	117.7	125.7	134.7	142.5	152.3	164.9	177.9	197.3	217.5
65°	87.5	94.1	99.1	106.2	113.6	121.9	129.6	139.7	151.1	166.5	184.6
67.5°	72.6	75.9	80.6	87.1	94.6	101.7	109.0	116.8	126.8	138.7	153.0
70°	66.0	67.2	68.0	74.2	81.4	88.5	95.2	102.7	111.2	121.0	133.4
72.5°	58.1	59.3	60.4	63.1	68.8	75.9	82.9	88.5	96.6	104.6	114.7
75°	46.2	47.9	48.8	50.3	52.4	57.1	63.6	68.9	73.7	79.9	87.9
77.5°	35.2	36.1	37.1	38.7	39.9	42.1	45.8	50.6	55.1	58.6	64.2
80°	27.8	28.1	29.3	29.9	31.7	33.1	34.9	38.7	43.2	44.7	48.5
82.5°	20.9	21.2	22.2	22.8	23.6	24.9	27.1	28.1	31.6	33.5	36.0
85°	11.6	11.2	12.1	12.1	12.8	13.3	13.9	15.4	16.2	18.6	19.3
87.5°	6.0	6.1	5.9	5.6	5.2	5.4	5.3	5.4	5.6	6.2	7.0
90°	12.4	12.6	10.8	9.0	7.3	5.5	4.2	3.2	2.3	1.3	0.4
92.5°	11.4	11.4	11.0	10.6	10.1	9.7	9.2	8.5	7.8	7.1	6.4
95°	23.0	23.0	22.8	22.7	22.5	22.3	21.9	21.1	20.3	19.5	18.7
97.5°	38.6	38.6	38.3	38.0	37.7	37.4	36.9	36.2	35.5	34.8	34.1
100°	49.5	49.5	49.3	49.0	48.8	48.6	48.2	47.5	46.8	46.2	45.6
102.5°	61.4	61.3	61.0	60.7	60.4	60.1	59.7	59.2	58.6	58.1	57.7
105°	79.1	79.0	78.8	78.7	78.5	78.3	78.1	77.9	77.6	77.4	77.2
107.5°	98.5	98.4	98.4	98.4	98.4	98.4	98.2	97.9	97.5	97.2	96.8
110°	111.6	111.6	111.6	111.6	111.6	111.6	111.4	110.9	110.4	110.0	109.5



TEST NUMBER: P331786-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	124.9	125.1	125.2	125.2	125.3	125.4	125.2	124.7	124.2	123.7	123.3
115°	144.9	145.0	145.1	145.3	145.4	145.6	145.4	145.0	144.5	144.0	143.5
117.5°	164.5	164.7	165.1	165.6	166.0	166.4	166.4	165.7	165.1	164.5	163.8
120°	177.3	177.3	177.9	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3
122.5°	190.9	191.1	191.5	191.9	192.4	192.9	192.7	191.9	191.2	190.4	189.6
125°	210.8	211.0	211.3	211.5	211.8	212.0	211.8	211.0	210.3	209.6	208.9
127.5°	230.1	230.4	230.7	231.0	231.3	231.6	231.2	230.4	229.4	228.5	227.6
130°	243.2	243.4	243.5	243.7	243.8	244.0	243.5	242.5	241.5	240.4	239.4
132.5°	256.2	256.5	256.5	256.5	256.4	256.4	256.0	255.2	254.3	253.4	252.6
135°	274.8	274.9	274.7	274.6	274.4	274.3	273.8	272.9	272.0	271.2	270.3
137.5°	292.9	293.0	292.8	292.6	292.4	292.2	291.7	291.0	290.3	289.5	288.8
140°	305.1	305.1	304.7	304.3	303.9	303.5	302.9	302.2	301.5	300.8	300.1
142.5°	316.1	316.0	315.7	315.4	315.1	314.9	314.4	313.7	313.0	312.3	311.6
145°	332.8	332.7	332.2	331.8	331.3	330.8	330.3	329.7	329.2	328.6	328.0
147.5°	347.4	347.2	346.9	346.6	346.3	345.9	345.5	344.8	344.1	343.4	342.8
150°	356.6	356.4	356.1	355.8	355.5	355.1	354.7	354.3	353.8	353.3	352.8
152.5°	365.9	365.6	365.2	364.8	364.4	364.1	363.6	363.1	362.7	362.2	361.7
155°	377.6	377.2	377.0	376.8	376.5	376.3	376.0	375.8	375.5	375.3	375.0
157.5°	388.4	387.9	387.7	387.5	387.4	387.2	387.1	387.0	386.8	386.7	386.5
160°	394.9	394.4	394.3	394.3	394.2	394.1	394.0	393.9	393.7	393.6	393.4
162.5°	400.7	400.2	400.1	400.1	400.0	399.9	399.8	399.7	399.7	399.7	399.7
165°	408.3	407.7	407.7	407.7	407.7	407.7	407.7	407.8	407.9	408.0	408.1
167.5°	414.5	414.0	414.0	414.0	414.0	414.0	414.2	414.4	414.6	414.9	415.1
170°	418.0	417.4	417.5	417.6	417.6	417.7	417.9	418.1	418.4	418.6	418.8
172.5°	420.6	420.0	420.1	420.2	420.3	420.3	420.5	420.7	421.0	421.2	421.4
175°	423.3	422.8	422.9	423.1	423.3	423.4	423.7	423.9	424.1	424.4	424.6
177.5°	424.8	424.5	424.5	424.7	424.8	424.9	425.1	425.3	425.5	425.7	425.9
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331786-927

CATALOG NUMBER: S122RDIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	856.3	857.1	861.8	864.0	868.2	869.9	871.7	871.2	871.2	872.2	878.8
5°	858.2	864.1	873.0	881.5	889.9	897.0	901.7	906.4	908.2	916.8	924.5
7.5°	855.2	866.0	880.7	893.7	909.4	921.7	931.8	941.0	947.3	959.8	972.6
10°	851.1	866.5	883.0	899.9	921.5	937.8	954.3	967.1	971.2	989.8	1000.5
12.5°	843.0	863.6	884.7	906.6	927.6	950.1	968.3	981.0	995.6	1012.3	1032.0
15°	831.0	854.7	882.2	910.3	940.5	967.7	987.2	1009.4	1025.3	1043.7	1060.8
17.5°	813.7	844.1	879.1	911.6	946.5	975.7	1002.7	1023.9	1035.1	1045.6	1048.2
20°	799.9	832.7	873.9	912.4	947.2	981.0	1007.6	1025.3	1028.3	1028.6	1012.9
22.5°	785.1	822.1	865.1	904.5	946.3	983.8	1004.5	1012.1	1000.4	980.3	950.0
25°	757.6	800.5	850.5	895.5	941.0	976.5	983.7	970.3	929.2	886.0	831.3
27.5°	727.9	776.1	829.7	879.7	928.3	950.3	934.9	886.9	812.9	748.5	670.5
30°	706.2	760.3	812.9	868.9	913.8	923.3	888.1	817.4	731.0	634.0	556.2
32.5°	681.3	738.0	795.9	853.7	891.4	882.1	823.9	736.9	635.6	540.3	466.7
35°	645.8	704.4	766.8	824.7	848.7	808.8	721.8	608.6	505.0	416.0	365.4
37.5°	604.8	668.6	733.5	786.7	785.1	718.4	600.0	483.0	396.0	343.3	307.3
40°	575.7	640.2	710.3	755.3	736.0	649.4	520.9	410.6	347.0	305.0	278.7
42.5°	547.8	612.5	682.1	717.9	684.4	577.9	450.0	363.5	311.0	278.3	256.9
45°	500.3	568.5	633.1	652.9	593.1	475.7	363.8	301.2	266.3	242.0	227.2
47.5°	453.8	521.0	579.9	580.3	499.4	385.8	307.0	260.6	230.8	212.1	201.3
50°	425.4	489.3	538.7	531.0	439.3	343.2	274.5	234.6	209.8	195.3	184.0
52.5°	393.5	455.4	498.2	476.3	388.4	302.0	245.4	211.9	191.3	178.7	168.7
55°	347.0	402.0	432.2	399.1	316.9	251.1	207.4	181.0	165.6	155.0	146.5
57.5°	301.4	346.7	365.8	327.2	260.9	208.3	175.4	155.7	140.4	132.8	128.3
60°	272.7	311.5	324.8	282.3	226.9	182.2	155.3	137.0	125.7	120.7	116.3
62.5°	244.6	276.2	281.8	242.7	197.8	159.5	136.4	120.9	113.4	108.6	104.4
65°	203.0	225.7	223.1	191.7	156.5	126.6	109.7	100.3	94.7	87.9	80.5
67.5°	167.1	181.0	172.6	149.1	119.5	98.4	87.4	80.2	73.3	66.8	65.1
70°	144.3	152.3	143.5	121.9	97.9	82.5	73.7	65.1	60.9	59.5	56.8
72.5°	122.6	125.4	115.8	97.3	79.7	68.4	59.7	54.9	52.7	51.4	49.7
75°	92.0	89.9	81.7	67.2	55.3	47.6	45.0	43.2	41.7	40.6	39.6
77.5°	64.6	61.6	54.2	44.8	38.5	34.9	33.3	32.3	31.6	31.0	30.1
80°	48.5	46.4	39.1	31.9	29.3	27.5	26.6	25.4	25.4	24.9	23.9
82.5°	35.5	33.2	26.8	23.4	21.9	20.9	20.2	19.5	19.3	19.4	18.8
85°	18.6	15.1	13.3	12.8	11.8	11.2	11.6	10.9	10.9	10.9	10.6
87.5°	5.9	5.0	4.9	4.8	5.4	5.7	5.9	6.2	6.7	6.5	6.7
90°	1.3	2.3	3.2	4.2	5.5	7.3	9.0	10.8	12.6	12.4	12.3
92.5°	7.1	7.8	8.5	9.2	9.7	10.1	10.6	11.0	11.4	11.4	11.5
95°	19.5	20.3	21.1	21.9	22.3	22.5	22.7	22.8	23.0	23.0	23.0
97.5°	34.8	35.5	36.2	36.9	37.4	37.7	38.0	38.3	38.6	38.6	38.6
100°	46.2	46.8	47.5	48.2	48.6	48.8	49.0	49.3	49.5	49.5	49.5
102.5°	58.1	58.6	59.2	59.7	60.1	60.4	60.7	61.0	61.3	61.4	61.4
105°	77.4	77.6	77.9	78.1	78.3	78.5	78.7	78.8	79.0	79.1	79.3
107.5°	97.2	97.5	97.9	98.2	98.4	98.4	98.4	98.4	98.4	98.5	98.5
110°	110.0	110.4	110.9	111.4	111.6	111.6	111.6	111.6	111.6	111.6	111.6



TEST NUMBER: P331786-927

CATALOG NUMBER: S122RDIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.7	124.2	124.7	125.2	125.4	125.3	125.2	125.2	125.1	124.9	124.8
115°	144.0	144.5	145.0	145.4	145.6	145.4	145.3	145.1	145.0	144.9	144.8
117.5°	164.5	165.1	165.7	166.4	166.4	166.0	165.6	165.1	164.7	164.5	164.3
120°	177.9	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3	177.3	177.3
122.5°	190.4	191.2	191.9	192.7	192.9	192.4	191.9	191.5	191.1	190.9	190.7
125°	209.6	210.3	211.0	211.8	212.0	211.8	211.5	211.3	211.0	210.8	210.6
127.5°	228.5	229.4	230.4	231.2	231.6	231.3	231.0	230.7	230.4	230.1	229.8
130°	240.4	241.5	242.5	243.5	244.0	243.8	243.7	243.5	243.4	243.2	243.0
132.5°	253.4	254.3	255.2	256.0	256.4	256.4	256.5	256.5	256.5	256.2	255.9
135°	271.2	272.0	272.9	273.8	274.3	274.4	274.6	274.7	274.9	274.8	274.7
137.5°	289.5	290.3	291.0	291.7	292.2	292.4	292.6	292.8	293.0	292.9	292.9
140°	300.8	301.5	302.2	302.9	303.5	303.9	304.3	304.7	305.1	305.1	305.1
142.5°	312.3	313.0	313.7	314.4	314.9	315.1	315.4	315.7	316.0	316.1	316.1
145°	328.6	329.2	329.7	330.3	330.8	331.3	331.8	332.2	332.7	332.8	332.9
147.5°	343.4	344.1	344.8	345.5	345.9	346.3	346.6	346.9	347.2	347.4	347.5
150°	353.3	353.8	354.3	354.7	355.1	355.5	355.8	356.1	356.4	356.6	356.9
152.5°	362.2	362.7	363.1	363.6	364.1	364.4	364.8	365.2	365.6	365.9	366.1
155°	375.3	375.5	375.8	376.0	376.3	376.5	376.8	377.0	377.2	377.6	378.0
157.5°	386.7	386.8	387.0	387.1	387.2	387.4	387.5	387.7	387.9	388.4	388.9
160°	393.6	393.7	393.9	394.0	394.1	394.2	394.3	394.3	394.4	394.9	395.4
162.5°	399.7	399.7	399.7	399.8	399.9	400.0	400.1	400.1	400.2	400.7	401.2
165°	408.0	407.9	407.8	407.7	407.7	407.7	407.7	407.7	407.7	408.3	408.8
167.5°	414.9	414.6	414.4	414.2	414.0	414.0	414.0	414.0	414.0	414.5	415.1
170°	418.6	418.4	418.1	417.9	417.7	417.6	417.6	417.5	417.4	418.0	418.5
172.5°	421.2	421.0	420.7	420.5	420.3	420.3	420.2	420.1	420.0	420.6	421.1
175°	424.4	424.1	423.9	423.7	423.4	423.3	423.1	422.9	422.8	423.3	423.9
177.5°	425.7	425.5	425.3	425.1	424.9	424.8	424.7	424.5	424.5	424.8	425.2
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	881.2	884.3	885.7	885.7	887.4	886.7	886.0
5°	931.8	937.5	938.7	944.0	947.8	946.7	947.2
7.5°	982.2	991.3	1000.2	1004.2	1005.0	1007.3	1008.2
10°	1013.2	1020.6	1034.5	1032.5	1042.8	1048.7	1038.9
12.5°	1043.1	1053.0	1062.7	1065.3	1071.2	1073.1	1069.2
15°	1070.0	1075.3	1075.9	1074.4	1076.3	1074.8	1069.1
17.5°	1044.8	1036.2	1018.7	1010.3	1003.8	994.1	990.2
20°	1003.1	977.7	948.2	936.3	922.4	895.2	901.7
22.5°	913.2	884.2	854.7	820.1	803.6	777.8	776.3
25°	773.3	723.3	668.3	629.8	607.4	581.6	570.4
27.5°	601.3	538.3	493.2	470.4	449.6	429.2	428.3
30°	488.1	440.8	405.9	386.3	373.7	365.0	366.9
32.5°	411.5	379.0	355.5	339.3	329.9	323.4	323.3
35°	336.4	314.2	299.0	292.3	285.5	280.7	281.1
37.5°	287.9	274.5	266.1	258.6	254.4	252.1	250.7
40°	263.0	252.1	245.6	241.1	237.6	234.3	233.7
42.5°	243.4	234.3	227.8	224.3	221.0	218.6	218.1
45°	215.9	208.6	202.6	198.8	197.3	195.3	195.3
47.5°	192.1	184.8	180.2	177.8	175.2	173.9	173.8
50°	176.0	170.4	166.3	164.8	162.7	161.8	161.5
52.5°	161.6	157.4	154.4	153.4	152.5	151.4	151.5
55°	142.0	139.7	138.5	137.5	136.1	134.3	135.5
57.5°	125.5	123.5	120.3	117.5	116.1	114.9	115.3
60°	113.9	109.7	105.6	102.3	101.5	98.8	98.8
62.5°	99.3	93.4	88.3	86.5	85.6	84.4	84.1
65°	76.3	74.0	72.8	71.6	71.0	71.0	70.4
67.5°	63.2	62.3	61.0	60.7	60.1	60.0	59.7
70°	55.9	54.7	54.1	53.9	53.2	53.6	52.7
72.5°	48.8	47.8	47.8	47.0	46.7	46.7	46.0
75°	38.4	38.4	38.2	37.9	37.3	37.0	37.3
77.5°	29.5	29.6	29.1	29.1	29.0	29.1	28.8
80°	23.7	23.9	23.7	23.4	23.1	23.4	23.1
82.5°	18.7	18.3	18.2	18.1	18.1	17.9	17.9
85°	10.6	10.9	10.6	10.4	10.4	10.4	10.6
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.3
90°	12.1	12.0	11.9	12.0	12.0	12.1	12.2
92.5°	11.5	11.6	11.6	11.6	11.6	11.6	11.6
95°	23.0	23.0	22.9	22.7	22.6	22.4	22.3
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6
100°	49.5	49.5	49.5	49.4	49.4	49.3	49.2
102.5°	61.5	61.6	61.6	61.5	61.4	61.3	61.2
105°	79.5	79.6	79.7	79.7	79.7	79.7	79.7
107.5°	98.6	98.7	98.5	98.2	97.8	97.4	97.0
110°	111.6	111.6	111.5	111.2	111.0	110.7	110.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	124.5	124.4	124.1	124.0	123.8	123.7	123.5
115°	144.7	144.7	144.5	144.3	144.0	143.8	143.5
117.5°	164.1	163.9	163.7	163.4	163.2	163.0	162.7
120°	177.3	177.3	177.2	177.0	176.7	176.5	176.3
122.5°	190.5	190.3	190.1	190.0	189.8	189.6	189.4
125°	210.3	210.1	209.9	209.8	209.8	209.7	209.6
127.5°	229.6	229.3	229.0	228.7	228.5	228.2	228.0
130°	242.9	242.7	242.5	242.2	241.9	241.5	241.2
132.5°	255.5	255.2	254.8	254.6	254.3	254.1	253.8
135°	274.6	274.6	274.4	274.2	273.9	273.7	273.5
137.5°	292.8	292.8	292.6	292.2	291.9	291.6	291.3
140°	305.1	305.1	304.9	304.6	304.3	304.0	303.6
142.5°	316.2	316.2	316.1	315.8	315.4	315.1	314.8
145°	333.0	333.0	332.9	332.6	332.2	331.9	331.6
147.5°	347.8	347.9	347.8	347.5	347.2	346.9	346.7
150°	357.1	357.4	357.4	357.1	356.9	356.6	356.4
152.5°	366.5	366.8	366.8	366.5	366.1	365.9	365.6
155°	378.4	378.8	378.9	378.7	378.4	378.2	378.0
157.5°	389.4	390.0	390.1	389.7	389.3	389.0	388.6
160°	395.9	396.3	396.4	396.1	395.8	395.5	395.1
162.5°	401.8	402.3	402.4	402.0	401.6	401.2	400.9
165°	409.4	410.0	410.0	409.6	409.2	408.8	408.4
167.5°	415.7	416.2	416.3	415.8	415.4	415.0	414.6
170°	419.1	419.6	419.7	419.2	418.7	418.3	417.8
172.5°	421.7	422.2	422.2	421.8	421.3	420.8	420.3
175°	424.5	425.0	425.1	424.6	424.1	423.7	423.2
177.5°	425.6	426.0	426.0	425.6	425.2	424.8	424.5
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3

(END OF REPORT)