

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: P331496-830

Luminaire Tested: **S122DIW-S485D435U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331496-830
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: S122DIW-S485D435U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3437.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

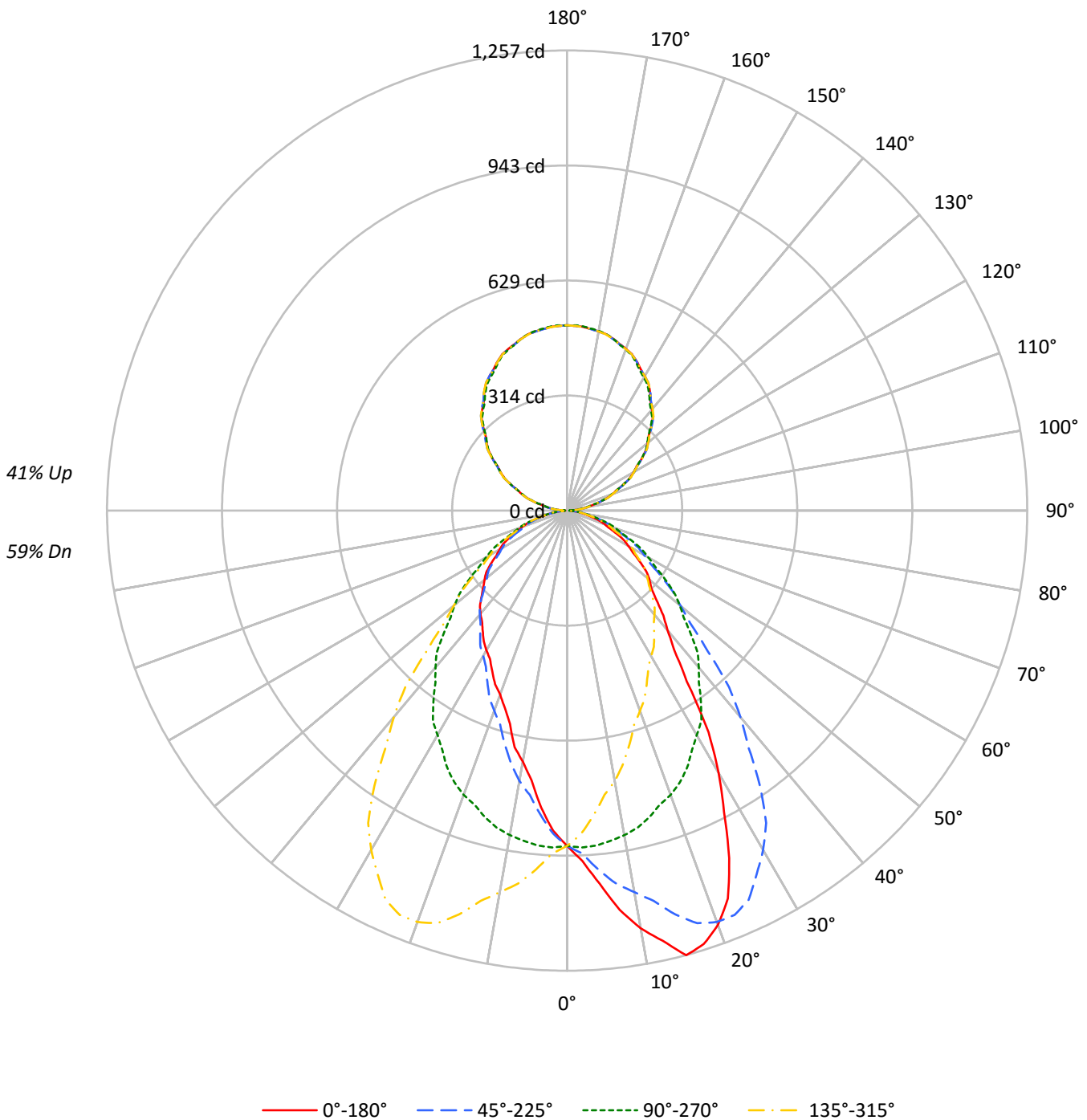
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59								
1	100	96	92	89	93	90	87	84	78	76	74	68	66	64	58	56	55	51								
2	92	85	79	74	85	79	74	70	69	65	62	60	57	55	51	49	47	43								
3	84	75	68	62	78	70	64	59	62	57	53	54	50	47	46	43	41	37								
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	42	38	36	33								
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	34	32	29								
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	34	31	28	25								
7	61	49	41	36	57	46	39	34	41	35	31	36	32	28	32	28	25	23								
8	57	45	37	32	53	42	35	30	38	32	28	33	29	25	29	26	23	21								
9	53	41	34	29	50	39	32	27	35	29	25	31	26	23	27	23	21	19								
10	50	38	31	26	46	36	29	25	32	27	23	29	24	21	25	22	19	17								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14788	14788	14788	14788
5°	16579	14885	13190	14885
10°	18998	14762	11416	14762
15°	21018	14492	10084	14492
20°	20697	14201	9194	14201
25°	18661	13814	8630	13814
30°	15422	13196	8216	13196
35°	11239	12552	7924	12552
40°	8977	11788	7761	11788
45°	7846	10908	7540	10908
50°	7375	10052	7392	10052
55°	6798	9185	7192	9185
60°	6229	8263	6888	8263
65°	5673	7435	6590	7435
70°	5150	6628	6151	6628
75°	4566	5733	5446	5733
80°	3924	4751	4379	4751
85°	3520	3520	2594	3520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	2.5
10°-20°	253.6	7.4
20°-30°	368.0	10.7
30°-40°	388.4	11.3
40°-50°	343.9	10.0
50°-60°	274.4	8.0
60°-70°	186.5	5.4
70°-80°	95.6	2.8
80°-90°	25.1	0.7
90°-100°	32.1	0.9
100°-110°	99.6	2.9
110°-120°	170.2	5.0
120°-130°	223.9	6.5
130°-140°	251.3	7.3
140°-150°	246.4	7.2
150°-160°	206.6	6.0
160°-170°	137.1	4.0
170°-180°	47.9	1.4
0°-30°	708.8	20.6
0°-40°	1097.2	31.9
0°-60°	1715.5	49.9
0°-90°	2022.7	58.8
90°-120°	301.9	8.8
90°-150°	1023.3	29.8
90°-180°	1415.0	41.2
0°-180°	3437.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	916	916	916	916	916	
5°	1023	918	814	918	1023	102
15°	1257	867	603	867	1257	347
25°	1048	775	484	775	1048	473
35°	570	637	402	637	570	371
45°	344	478	330	478	344	270
55°	242	326	256	326	242	217
65°	148	195	172	195	148	148
75°	73	92	87	92	73	78
85°	19	19	14	19	19	21
90°	14	0	14	0	14	7
95°	26	22	26	22	26	30
105°	95	92	95	92	95	100
115°	171	171	171	171	171	169
125°	249	248	249	248	249	222
135°	325	322	325	322	325	250
145°	394	390	394	390	394	246
155°	450	446	450	446	450	207
165°	486	486	486	486	486	137
175°	504	505	504	505	504	48
180°	506	506	506	506	506	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	958.2	958.5	958.9	954.5	953.9	953.9	950.0	946.6	942.6	937.3	937.8
5°	1022.9	1026.8	1028.2	1024.0	1017.7	1016.9	1011.0	1001.1	991.9	984.6	979.3
7.5°	1100.2	1101.7	1098.3	1092.8	1088.1	1079.6	1068.5	1057.5	1042.3	1028.2	1017.9
10°	1158.8	1160.9	1154.9	1146.8	1140.1	1130.3	1114.1	1097.5	1077.5	1058.1	1042.6
12.5°	1203.2	1208.5	1200.8	1199.8	1188.3	1174.8	1155.5	1147.1	1118.9	1091.9	1075.3
15°	1257.4	1257.0	1257.7	1251.0	1242.6	1240.5	1220.0	1197.9	1158.1	1142.3	1114.7
17.5°	1241.7	1247.1	1249.5	1249.4	1249.2	1247.9	1241.3	1227.4	1207.4	1181.8	1150.1
20°	1204.6	1211.5	1212.7	1220.8	1225.3	1231.3	1233.8	1229.9	1217.6	1196.1	1168.7
22.5°	1147.1	1149.1	1152.4	1165.0	1174.9	1189.9	1197.7	1210.7	1206.0	1195.5	1172.6
25°	1047.5	1044.1	1056.3	1062.7	1085.5	1109.5	1126.7	1145.8	1162.6	1172.9	1166.2
27.5°	928.0	922.7	941.2	958.0	976.6	1002.5	1029.4	1061.1	1087.5	1120.6	1131.9
30°	827.2	830.4	848.0	865.9	894.1	930.7	960.9	995.8	1033.5	1070.4	1096.1
32.5°	718.5	730.7	741.8	769.3	794.1	834.9	879.3	922.8	969.9	1011.8	1051.6
35°	570.2	584.3	599.8	619.9	654.7	695.2	738.5	797.3	861.4	918.7	965.9
37.5°	479.9	477.8	486.6	501.1	529.3	562.0	611.8	670.0	745.4	812.8	879.3
40°	425.9	424.5	430.8	444.2	465.7	489.7	533.3	584.3	654.4	736.7	816.0
42.5°	388.7	389.6	393.1	402.6	417.3	437.0	469.7	513.1	577.2	654.8	739.9
45°	343.6	346.0	349.9	354.5	362.9	379.1	397.4	428.4	479.1	543.8	627.6
47.5°	311.0	311.1	315.0	319.1	324.0	333.2	348.2	367.6	403.3	456.1	528.1
50°	293.6	291.1	293.9	297.1	302.4	308.7	318.6	336.9	360.8	403.4	463.5
52.5°	272.2	272.2	274.8	276.0	280.7	287.0	296.1	308.7	330.4	363.7	413.2
55°	241.5	243.3	244.7	246.8	251.0	255.5	262.6	271.1	287.9	312.9	349.5
57.5°	212.6	213.2	214.6	218.6	221.3	225.5	232.1	239.9	250.8	269.4	296.9
60°	192.9	192.9	195.7	197.5	201.0	205.2	210.5	217.9	227.7	242.9	265.0
62.5°	174.8	174.6	175.7	178.6	181.3	185.2	190.5	196.8	206.0	219.5	237.7
65°	148.5	147.9	150.0	150.6	153.4	157.3	161.6	168.2	175.7	185.5	201.7
67.5°	123.2	124.0	125.2	126.5	128.1	132.1	135.0	139.7	145.9	154.1	165.1
70°	109.1	109.1	109.1	110.2	112.3	114.4	117.3	121.1	127.1	134.1	143.9
72.5°	93.3	94.4	95.6	95.0	97.6	98.9	102.3	104.4	110.2	114.7	123.4
75°	73.2	73.2	73.2	74.9	76.1	77.1	79.2	81.3	84.2	89.7	94.3
77.5°	54.7	54.5	54.9	55.2	56.4	57.7	58.2	60.2	62.8	65.4	69.3
80°	42.2	43.0	43.3	44.0	44.0	44.7	45.1	47.5	49.3	51.1	53.5
82.5°	32.7	32.8	32.9	33.0	33.3	33.7	34.6	35.4	36.0	37.5	39.4
85°	19.0	18.7	18.7	19.3	19.0	19.0	19.7	20.5	20.5	20.7	21.9
87.5°	10.2	10.2	10.5	10.2	10.2	10.5	10.5	10.3	10.6	10.8	10.7
90°	14.5	14.4	14.3	14.2	14.1	14.2	14.4	14.6	14.8	15.0	12.8
92.5°	13.9	13.9	13.8	13.8	13.8	13.8	13.7	13.7	13.6	13.6	13.1
95°	26.5	26.7	26.9	27.1	27.2	27.3	27.3	27.3	27.3	27.3	27.1
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.6
100°	58.5	58.6	58.7	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.6
102.5°	72.9	73.0	73.0	73.1	73.2	73.2	73.1	73.0	73.0	73.0	72.6
105°	94.8	94.8	94.8	94.8	94.8	94.7	94.5	94.3	94.2	94.0	93.8
107.5°	115.5	115.9	116.3	116.8	117.3	117.4	117.3	117.3	117.2	117.1	117.1
110°	131.5	131.8	132.1	132.3	132.6	132.8	132.8	132.8	132.8	132.8	132.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	146.9	147.1	147.3	147.5	147.7	148.0	148.2	148.5	148.6	148.8	148.9
115°	170.8	171.1	171.4	171.6	171.9	172.1	172.2	172.3	172.4	172.5	172.7
117.5°	193.6	193.9	194.2	194.4	194.7	195.0	195.2	195.5	195.7	196.0	196.4
120°	209.7	210.0	210.3	210.6	210.8	210.9	210.9	210.9	210.9	210.9	211.7
122.5°	225.4	225.6	225.8	226.0	226.2	226.4	226.7	226.9	227.2	227.3	227.9
125°	249.4	249.5	249.6	249.7	249.8	250.0	250.2	250.5	250.8	251.1	251.4
127.5°	271.3	271.5	271.8	272.1	272.5	272.8	273.1	273.4	273.8	274.2	274.5
130°	287.0	287.4	287.8	288.1	288.5	288.8	289.0	289.2	289.4	289.5	289.7
132.5°	302.0	302.3	302.6	302.9	303.2	303.6	304.0	304.4	304.8	305.2	305.2
135°	325.4	325.6	325.9	326.2	326.5	326.7	326.8	326.9	327.0	327.1	326.9
137.5°	346.6	346.9	347.3	347.7	348.1	348.4	348.4	348.5	348.6	348.6	348.4
140°	361.3	361.7	362.0	362.4	362.8	363.0	363.0	363.0	363.0	363.0	362.5
142.5°	374.6	374.9	375.3	375.7	376.1	376.3	376.2	376.1	376.1	376.0	375.6
145°	394.5	394.9	395.3	395.7	396.1	396.2	396.2	396.1	396.0	395.9	395.3
147.5°	412.5	412.7	413.1	413.5	413.9	414.0	413.8	413.5	413.3	413.1	412.7
150°	424.0	424.3	424.6	424.9	425.2	425.2	424.9	424.6	424.3	424.0	423.7
152.5°	435.0	435.4	435.6	436.0	436.4	436.4	436.0	435.6	435.4	435.0	434.5
155°	449.7	450.0	450.3	450.5	450.8	450.7	450.3	449.8	449.3	448.8	448.6
157.5°	462.3	462.8	463.2	463.6	464.1	464.0	463.4	462.7	462.1	461.5	461.3
160°	470.1	470.5	470.9	471.3	471.6	471.6	471.0	470.4	469.9	469.3	469.2
162.5°	477.0	477.4	477.9	478.3	478.8	478.7	478.1	477.4	476.7	476.2	476.1
165°	486.0	486.4	486.9	487.4	487.9	487.8	487.1	486.4	485.8	485.1	485.1
167.5°	493.3	493.8	494.3	494.7	495.3	495.2	494.6	493.9	493.2	492.6	492.6
170°	497.1	497.7	498.2	498.8	499.4	499.3	498.6	497.9	497.3	496.6	496.7
172.5°	500.1	500.7	501.2	501.8	502.4	502.4	501.7	501.1	500.4	499.7	499.8
175°	503.5	504.1	504.6	505.2	505.8	505.7	505.0	504.4	503.7	503.0	503.2
177.5°	505.0	505.5	506.0	506.3	506.8	506.8	506.3	506.0	505.5	505.0	505.1
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	939.8	937.5	936.1	931.1	926.6	922.1	920.7	921.2	915.0	909.2	906.6
5°	976.5	969.4	962.7	953.2	942.0	929.6	923.3	918.4	906.1	892.7	885.0
7.5°	1009.3	999.2	986.3	968.5	952.1	932.6	920.3	909.5	891.4	872.5	861.0
10°	1029.3	1015.5	999.0	977.1	957.1	933.5	917.0	900.4	879.3	856.8	842.7
12.5°	1046.4	1027.9	1011.6	983.6	959.9	930.4	910.8	887.5	865.3	838.5	824.6
15°	1087.3	1053.2	1022.2	990.5	961.3	920.1	898.3	867.0	837.7	804.6	788.8
17.5°	1118.9	1080.5	1031.8	991.6	957.4	911.8	879.8	842.3	807.7	769.9	748.4
20°	1137.0	1093.0	1040.5	992.7	951.8	899.8	864.9	826.5	786.0	743.4	720.2
22.5°	1147.6	1101.5	1049.5	988.4	940.6	889.9	846.0	804.0	762.9	717.0	692.6
25°	1151.0	1108.8	1053.9	984.9	926.4	869.1	816.2	775.4	725.9	682.9	647.3
27.5°	1134.3	1104.0	1051.2	978.3	910.2	843.1	784.3	738.0	685.6	639.0	603.2
30°	1113.7	1096.1	1044.7	971.5	897.2	825.1	760.3	707.8	655.8	608.6	572.0
32.5°	1081.9	1078.1	1032.9	962.0	883.4	802.3	735.3	682.2	624.5	578.2	543.3
35°	1019.4	1036.3	1007.8	940.6	857.4	769.9	697.3	636.8	576.9	532.5	499.8
37.5°	935.7	977.6	970.2	909.2	822.4	734.5	654.4	591.2	534.1	489.4	457.2
40°	877.9	931.4	939.1	885.2	797.7	707.2	622.4	559.3	503.7	462.9	430.5
42.5°	816.0	878.4	899.8	856.6	770.6	678.4	593.6	528.4	473.3	433.6	404.9
45°	712.1	794.8	833.2	808.5	725.5	631.1	543.8	477.7	427.7	390.4	368.2
47.5°	615.0	705.4	757.1	748.3	675.2	581.8	495.6	432.1	383.4	353.6	333.8
50°	546.3	639.2	701.5	704.4	639.2	546.7	460.1	400.2	355.5	327.7	311.5
52.5°	486.6	575.3	643.3	658.2	599.0	510.0	428.2	368.7	329.3	303.8	289.3
55°	408.7	483.6	559.0	586.4	538.9	454.4	378.7	326.3	289.4	271.7	259.1
57.5°	339.8	402.3	471.8	502.2	472.9	400.6	329.6	284.1	254.1	238.7	228.9
60°	303.4	352.7	414.6	450.9	425.6	361.2	299.2	255.9	231.3	217.5	208.4
62.5°	269.7	313.3	365.6	398.8	385.0	324.2	268.8	230.5	209.3	196.4	189.8
65°	222.4	256.9	297.5	328.1	319.0	272.8	227.4	194.6	177.8	167.6	162.3
67.5°	183.1	208.1	236.2	263.0	255.6	222.9	186.5	161.0	148.4	139.6	136.5
70°	158.4	177.4	202.4	223.9	217.9	191.1	162.3	140.4	129.5	122.2	118.9
72.5°	134.8	150.3	169.5	187.0	182.9	160.7	136.7	120.2	111.8	105.0	102.4
75°	101.7	113.7	125.4	137.0	135.9	118.7	104.5	91.9	85.2	79.9	78.9
77.5°	75.1	81.8	89.7	96.6	94.7	84.8	73.8	66.5	61.6	58.1	57.5
80°	57.4	61.3	66.9	71.8	69.4	65.1	56.4	51.1	47.5	44.0	42.6
82.5°	41.6	45.5	48.8	51.6	49.7	45.7	40.2	36.7	34.6	32.1	31.6
85°	21.9	23.9	25.4	26.0	25.4	22.9	20.5	19.0	17.2	16.2	15.8
87.5°	10.6	10.2	9.8	10.0	9.0	8.7	7.4	6.3	6.2	6.1	5.8
90°	10.7	8.7	6.6	5.0	3.9	2.7	1.6	0.5	1.6	2.7	3.9
92.5°	12.6	12.1	11.6	10.9	10.1	9.2	8.5	7.6	8.5	9.2	10.1
95°	27.0	26.8	26.6	26.0	25.1	24.1	23.2	22.2	23.2	24.1	25.1
97.5°	45.2	44.9	44.5	43.9	43.1	42.2	41.4	40.5	41.4	42.2	43.1
100°	58.3	58.1	57.8	57.3	56.6	55.7	55.0	54.2	55.0	55.7	56.6
102.5°	72.2	71.8	71.5	71.0	70.4	69.7	69.2	68.6	69.2	69.7	70.4
105°	93.6	93.4	93.2	92.9	92.7	92.4	92.1	91.8	92.1	92.4	92.7
107.5°	117.1	117.1	117.1	116.9	116.5	116.0	115.6	115.2	115.6	116.0	116.5
110°	132.8	132.8	132.8	132.5	132.0	131.4	130.8	130.3	130.8	131.4	132.0



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	149.0	149.1	149.2	148.9	148.4	147.8	147.2	146.7	147.2	147.8	148.4
115°	172.9	173.1	173.2	173.1	172.5	171.9	171.4	170.8	171.4	171.9	172.5
117.5°	197.0	197.6	198.0	197.9	197.2	196.4	195.7	194.9	195.7	196.4	197.2
120°	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9	211.7	212.4	213.2
122.5°	228.4	228.9	229.5	229.3	228.4	227.4	226.6	225.6	226.6	227.4	228.4
125°	251.7	251.9	252.2	251.9	251.1	250.2	249.4	248.5	249.4	250.2	251.1
127.5°	274.8	275.2	275.5	275.1	274.1	273.0	271.9	270.8	271.9	273.0	274.1
130°	289.9	290.1	290.3	289.7	288.5	287.3	286.1	284.8	286.1	287.3	288.5
132.5°	305.2	305.1	305.1	304.5	303.6	302.6	301.5	300.6	301.5	302.6	303.6
135°	326.7	326.5	326.3	325.7	324.7	323.7	322.6	321.6	322.6	323.7	324.7
137.5°	348.2	347.9	347.6	347.0	346.2	345.3	344.5	343.7	344.5	345.3	346.2
140°	362.0	361.6	361.1	360.4	359.6	358.7	357.9	357.0	357.9	358.7	359.6
142.5°	375.3	374.9	374.7	374.1	373.2	372.4	371.6	370.7	371.6	372.4	373.2
145°	394.7	394.2	393.6	392.9	392.3	391.6	391.0	390.3	391.0	391.6	392.3
147.5°	412.4	412.0	411.6	411.0	410.2	409.4	408.6	407.8	408.6	409.4	410.2
150°	423.3	422.9	422.5	422.1	421.5	420.9	420.4	419.8	420.4	420.9	421.5
152.5°	434.0	433.6	433.2	432.6	432.1	431.5	430.9	430.4	430.9	431.5	432.1
155°	448.3	448.0	447.7	447.4	447.1	446.8	446.5	446.2	446.5	446.8	447.1
157.5°	461.1	460.9	460.7	460.6	460.4	460.2	460.1	459.9	460.1	460.2	460.4
160°	469.1	469.0	468.9	468.8	468.6	468.4	468.3	468.1	468.3	468.4	468.6
162.5°	476.0	475.9	475.8	475.7	475.6	475.6	475.6	475.5	475.6	475.6	475.6
165°	485.1	485.1	485.1	485.1	485.2	485.3	485.4	485.5	485.4	485.3	485.2
167.5°	492.6	492.6	492.6	492.8	493.0	493.3	493.6	493.9	493.6	493.3	493.0
170°	496.8	496.9	497.0	497.2	497.5	497.8	498.0	498.3	498.0	497.8	497.5
172.5°	499.9	500.0	500.1	500.3	500.6	500.9	501.1	501.4	501.1	500.9	500.6
175°	503.4	503.6	503.8	504.1	504.4	504.6	504.9	505.2	504.9	504.6	504.4
177.5°	505.3	505.5	505.6	505.8	506.1	506.2	506.5	506.7	506.5	506.2	506.1
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	903.8	902.1	896.2	893.1	888.1	883.3	880.1	881.6	882.7	882.1	881.3
5°	877.9	871.2	861.0	852.2	845.8	834.2	829.3	826.9	824.7	822.3	819.8
7.5°	847.1	836.5	821.9	809.4	797.5	783.1	774.9	769.9	764.8	759.2	754.3
10°	825.1	810.3	794.8	777.2	763.2	750.1	738.5	730.8	723.7	717.0	712.1
12.5°	802.0	784.9	765.8	741.8	726.2	707.6	705.9	692.2	681.2	677.0	671.3
15°	765.3	741.3	717.0	688.5	676.2	659.3	648.8	638.2	628.7	622.0	620.2
17.5°	723.5	692.5	668.4	647.9	627.7	610.4	600.7	592.2	584.4	575.4	574.3
20°	691.6	665.0	638.6	620.6	599.8	582.2	570.2	561.8	555.1	549.8	545.3
22.5°	661.6	632.3	608.1	588.4	568.0	553.7	544.3	536.2	530.7	524.8	520.5
25°	613.2	590.3	563.9	541.8	524.8	515.7	507.9	500.9	497.4	493.5	488.6
27.5°	570.9	545.4	520.8	503.6	488.7	480.6	475.1	470.3	467.0	464.8	461.9
30°	541.0	515.3	496.0	479.1	466.7	458.6	455.2	452.3	448.5	447.0	445.6
32.5°	512.3	489.2	472.6	458.0	446.2	440.9	437.7	435.2	432.2	430.7	427.9
35°	471.6	452.3	436.1	428.0	418.5	414.0	411.5	407.9	405.2	403.8	403.4
37.5°	433.5	416.6	406.0	395.6	391.5	388.7	385.4	383.0	382.1	381.9	381.5
40°	408.7	394.9	385.4	377.0	375.2	371.0	368.2	366.1	366.1	366.5	366.1
42.5°	386.2	373.8	365.4	358.2	356.1	353.5	350.7	350.6	351.2	352.3	351.2
45°	352.0	343.2	337.2	333.7	329.8	327.3	327.0	328.1	328.4	328.8	329.8
47.5°	320.6	314.7	309.3	305.5	303.8	303.3	302.9	304.7	306.4	307.1	308.7
50°	302.0	295.3	290.8	288.3	286.9	286.2	286.9	289.0	290.4	292.2	293.2
52.5°	281.2	276.4	273.3	271.4	270.8	271.3	271.4	273.8	276.1	276.6	277.2
55°	252.4	248.8	248.2	245.0	246.4	246.0	247.8	249.2	251.3	253.4	253.8
57.5°	223.7	220.8	219.0	219.2	219.6	221.2	222.6	225.2	227.4	229.6	229.9
60°	204.5	203.1	202.1	202.1	202.7	204.9	206.6	209.1	210.5	211.9	212.9
62.5°	187.1	185.7	184.5	185.1	187.0	188.2	190.3	191.6	193.0	194.4	194.9
65°	159.5	158.7	159.9	160.5	160.9	162.6	165.1	166.2	167.6	168.2	170.7
67.5°	134.0	134.2	134.0	135.1	137.0	137.5	139.8	142.3	142.6	143.9	145.5
70°	116.9	117.5	118.3	118.9	120.7	121.4	123.2	124.2	125.6	126.7	127.8
72.5°	101.1	101.2	102.0	101.8	103.3	104.8	106.3	107.4	108.8	110.1	111.1
75°	77.8	77.8	78.5	78.9	80.6	82.4	82.0	82.8	84.2	85.6	86.2
77.5°	56.8	56.1	56.8	57.1	57.7	59.2	59.5	60.5	62.1	61.6	62.4
80°	43.3	42.2	43.3	43.6	43.6	45.4	45.4	46.1	47.1	46.1	47.1
82.5°	30.9	30.4	31.2	31.3	31.9	31.9	32.4	32.6	33.6	33.2	33.6
85°	15.5	15.2	15.5	15.2	15.5	15.8	15.8	15.5	15.5	16.2	15.2
87.5°	5.7	5.8	5.9	6.4	6.5	6.7	6.3	6.3	6.2	5.7	5.7
90°	5.0	6.6	8.7	10.7	12.8	15.0	14.8	14.6	14.4	14.2	14.1
92.5°	10.9	11.6	12.1	12.6	13.1	13.6	13.6	13.7	13.7	13.8	13.8
95°	26.0	26.6	26.8	27.0	27.1	27.3	27.3	27.3	27.3	27.3	27.2
97.5°	43.9	44.5	44.9	45.2	45.6	45.9	45.9	45.9	45.9	45.9	45.9
100°	57.3	57.8	58.1	58.3	58.6	58.9	58.9	58.9	58.9	58.9	58.9
102.5°	71.0	71.5	71.8	72.2	72.6	73.0	73.0	73.0	73.1	73.2	73.2
105°	92.9	93.2	93.4	93.6	93.8	94.0	94.2	94.3	94.5	94.7	94.8
107.5°	116.9	117.1	117.1	117.1	117.1	117.1	117.2	117.3	117.3	117.4	117.3
110°	132.5	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.6



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	148.9	149.2	149.1	149.0	148.9	148.8	148.6	148.5	148.2	148.0	147.7
115°	173.1	173.2	173.1	172.9	172.7	172.5	172.4	172.3	172.2	172.1	171.9
117.5°	197.9	198.0	197.6	197.0	196.4	196.0	195.7	195.5	195.2	195.0	194.7
120°	214.0	214.0	213.2	212.4	211.7	210.9	210.9	210.9	210.9	210.9	210.8
122.5°	229.3	229.5	228.9	228.4	227.9	227.3	227.2	226.9	226.7	226.4	226.2
125°	251.9	252.2	251.9	251.7	251.4	251.1	250.8	250.5	250.2	250.0	249.8
127.5°	275.1	275.5	275.2	274.8	274.5	274.2	273.8	273.4	273.1	272.8	272.5
130°	289.7	290.3	290.1	289.9	289.7	289.5	289.4	289.2	289.0	288.8	288.5
132.5°	304.5	305.1	305.1	305.2	305.2	305.2	304.8	304.4	304.0	303.6	303.2
135°	325.7	326.3	326.5	326.7	326.9	327.1	327.0	326.9	326.8	326.7	326.5
137.5°	347.0	347.6	347.9	348.2	348.4	348.6	348.6	348.5	348.4	348.4	348.1
140°	360.4	361.1	361.6	362.0	362.5	363.0	363.0	363.0	363.0	363.0	362.8
142.5°	374.1	374.7	374.9	375.3	375.6	376.0	376.1	376.1	376.2	376.3	376.1
145°	392.9	393.6	394.2	394.7	395.3	395.9	396.0	396.1	396.2	396.2	396.1
147.5°	411.0	411.6	412.0	412.4	412.7	413.1	413.3	413.5	413.8	414.0	413.9
150°	422.1	422.5	422.9	423.3	423.7	424.0	424.3	424.6	424.9	425.2	425.2
152.5°	432.6	433.2	433.6	434.0	434.5	435.0	435.4	435.6	436.0	436.4	436.4
155°	447.4	447.7	448.0	448.3	448.6	448.8	449.3	449.8	450.3	450.7	450.8
157.5°	460.6	460.7	460.9	461.1	461.3	461.5	462.1	462.7	463.4	464.0	464.1
160°	468.8	468.9	469.0	469.1	469.2	469.3	469.9	470.4	471.0	471.6	471.6
162.5°	475.7	475.8	475.9	476.0	476.1	476.2	476.7	477.4	478.1	478.7	478.8
165°	485.1	485.1	485.1	485.1	485.1	485.1	485.8	486.4	487.1	487.8	487.9
167.5°	492.8	492.6	492.6	492.6	492.6	492.6	493.2	493.9	494.6	495.2	495.3
170°	497.2	497.0	496.9	496.8	496.7	496.6	497.3	497.9	498.6	499.3	499.4
172.5°	500.3	500.1	500.0	499.9	499.8	499.7	500.4	501.1	501.7	502.4	502.4
175°	504.1	503.8	503.6	503.4	503.2	503.0	503.7	504.4	505.0	505.7	505.8
177.5°	505.8	505.6	505.5	505.3	505.1	505.0	505.5	506.0	506.3	506.8	506.8
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	878.4	877.9	877.9	875.3	877.9	877.9	878.4	881.3	882.1	882.7	881.6
5°	814.9	813.8	812.1	813.8	812.1	813.8	814.9	819.8	822.3	824.7	826.9
7.5°	752.1	747.8	747.2	743.0	747.2	747.8	752.1	754.3	759.2	764.8	769.9
10°	706.2	703.3	702.9	696.3	702.9	703.3	706.2	712.1	717.0	723.7	730.8
12.5°	671.2	664.4	665.8	661.9	665.8	664.4	671.2	671.3	677.0	681.2	692.2
15°	610.7	610.7	609.4	603.3	609.4	610.7	610.7	620.2	622.0	628.7	638.2
17.5°	567.3	566.6	563.2	564.9	563.2	566.6	567.3	574.3	575.4	584.4	592.2
20°	541.4	539.2	535.1	535.1	535.1	539.2	541.4	545.3	549.8	555.1	561.8
22.5°	516.9	516.7	512.3	513.7	512.3	516.7	516.9	520.5	524.8	530.7	536.2
25°	488.2	485.4	483.3	484.4	483.3	485.4	488.2	488.6	493.5	497.4	500.9
27.5°	461.1	459.5	459.4	456.5	459.4	459.5	461.1	461.9	464.8	467.0	470.3
30°	445.3	441.8	442.4	440.7	442.4	441.8	445.3	445.6	447.0	448.5	452.3
32.5°	427.3	426.0	425.3	423.8	425.3	426.0	427.3	427.9	430.7	432.2	435.2
35°	402.7	403.0	401.2	402.0	401.2	403.0	402.7	403.4	403.8	405.2	407.9
37.5°	381.3	382.4	381.5	381.7	381.5	382.4	381.3	381.5	381.9	382.1	383.0
40°	367.1	367.1	367.1	368.2	367.1	367.1	367.1	366.1	366.5	366.1	366.1
42.5°	353.6	353.1	352.5	352.4	352.5	353.1	353.6	351.2	352.3	351.2	350.6
45°	330.5	331.6	332.0	330.2	332.0	331.6	330.5	329.8	328.8	328.4	328.1
47.5°	309.6	309.7	309.6	311.1	309.6	309.7	309.6	308.7	307.1	306.4	304.7
50°	295.0	294.3	295.0	294.3	295.0	294.3	295.0	293.2	292.2	290.4	289.0
52.5°	279.5	279.7	279.2	279.1	279.2	279.7	279.5	277.2	276.6	276.1	273.8
55°	255.2	255.9	255.5	255.5	255.5	255.9	255.2	253.8	253.4	251.3	249.2
57.5°	230.1	230.7	231.2	229.6	231.2	230.7	230.1	229.9	229.6	227.4	225.2
60°	212.6	214.3	214.1	213.3	214.1	214.3	212.6	212.9	211.9	210.5	209.1
62.5°	196.5	197.2	197.1	197.0	197.1	197.2	196.5	194.9	194.4	193.0	191.6
65°	171.7	172.5	171.4	172.5	171.4	172.5	171.7	170.7	168.2	167.6	166.2
67.5°	145.1	145.3	146.1	146.6	146.1	145.3	145.1	145.5	143.9	142.6	142.3
70°	128.5	128.1	129.2	130.3	129.2	128.1	128.5	127.8	126.7	125.6	124.2
72.5°	111.0	111.8	111.4	112.3	111.4	111.8	111.0	111.1	110.1	108.8	107.4
75°	85.6	86.6	86.2	87.3	86.2	86.6	85.6	86.2	85.6	84.2	82.8
77.5°	61.8	61.9	61.8	62.4	61.8	61.9	61.8	62.4	61.6	62.1	60.5
80°	47.1	46.5	45.7	47.1	45.7	46.5	47.1	47.1	46.1	47.1	46.1
82.5°	32.8	33.3	32.5	32.5	32.5	33.3	32.8	33.6	33.2	33.6	32.6
85°	15.2	14.8	14.0	14.0	14.0	14.8	15.2	15.2	16.2	15.5	15.5
87.5°	5.7	5.4	5.4	5.2	5.4	5.4	5.7	5.7	5.7	6.2	6.3
90°	14.2	14.3	14.4	14.5	14.4	14.3	14.2	14.1	14.2	14.4	14.6
92.5°	13.8	13.8	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.7	13.7
95°	27.1	26.9	26.7	26.5	26.7	26.9	27.1	27.2	27.3	27.3	27.3
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
100°	58.8	58.7	58.6	58.5	58.6	58.7	58.8	58.9	58.9	58.9	58.9
102.5°	73.1	73.0	73.0	72.9	73.0	73.0	73.1	73.2	73.2	73.1	73.0
105°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.7	94.5	94.3
107.5°	116.8	116.3	115.9	115.5	115.9	116.3	116.8	117.3	117.4	117.3	117.3
110°	132.3	132.1	131.8	131.5	131.8	132.1	132.3	132.6	132.8	132.8	132.8



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	147.5	147.3	147.1	146.9	147.1	147.3	147.5	147.7	148.0	148.2	148.5
115°	171.6	171.4	171.1	170.8	171.1	171.4	171.6	171.9	172.1	172.2	172.3
117.5°	194.4	194.2	193.9	193.6	193.9	194.2	194.4	194.7	195.0	195.2	195.5
120°	210.6	210.3	210.0	209.7	210.0	210.3	210.6	210.8	210.9	210.9	210.9
122.5°	226.0	225.8	225.6	225.4	225.6	225.8	226.0	226.2	226.4	226.7	226.9
125°	249.7	249.6	249.5	249.4	249.5	249.6	249.7	249.8	250.0	250.2	250.5
127.5°	272.1	271.8	271.5	271.3	271.5	271.8	272.1	272.5	272.8	273.1	273.4
130°	288.1	287.8	287.4	287.0	287.4	287.8	288.1	288.5	288.8	289.0	289.2
132.5°	302.9	302.6	302.3	302.0	302.3	302.6	302.9	303.2	303.6	304.0	304.4
135°	326.2	325.9	325.6	325.4	325.6	325.9	326.2	326.5	326.7	326.8	326.9
137.5°	347.7	347.3	346.9	346.6	346.9	347.3	347.7	348.1	348.4	348.4	348.5
140°	362.4	362.0	361.7	361.3	361.7	362.0	362.4	362.8	363.0	363.0	363.0
142.5°	375.7	375.3	374.9	374.6	374.9	375.3	375.7	376.1	376.3	376.2	376.1
145°	395.7	395.3	394.9	394.5	394.9	395.3	395.7	396.1	396.2	396.2	396.1
147.5°	413.5	413.1	412.7	412.5	412.7	413.1	413.5	413.9	414.0	413.8	413.5
150°	424.9	424.6	424.3	424.0	424.3	424.6	424.9	425.2	425.2	424.9	424.6
152.5°	436.0	435.6	435.4	435.0	435.4	435.6	436.0	436.4	436.4	436.0	435.6
155°	450.5	450.3	450.0	449.7	450.0	450.3	450.5	450.8	450.7	450.3	449.8
157.5°	463.6	463.2	462.8	462.3	462.8	463.2	463.6	464.1	464.0	463.4	462.7
160°	471.3	470.9	470.5	470.1	470.5	470.9	471.3	471.6	471.6	471.0	470.4
162.5°	478.3	477.9	477.4	477.0	477.4	477.9	478.3	478.8	478.7	478.1	477.4
165°	487.4	486.9	486.4	486.0	486.4	486.9	487.4	487.9	487.8	487.1	486.4
167.5°	494.7	494.3	493.8	493.3	493.8	494.3	494.7	495.3	495.2	494.6	493.9
170°	498.8	498.2	497.7	497.1	497.7	498.2	498.8	499.4	499.3	498.6	497.9
172.5°	501.8	501.2	500.7	500.1	500.7	501.2	501.8	502.4	502.4	501.7	501.1
175°	505.2	504.6	504.1	503.5	504.1	504.6	505.2	505.8	505.7	505.0	504.4
177.5°	506.3	506.0	505.5	505.0	505.5	506.0	506.3	506.8	506.8	506.3	506.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	880.1	883.3	888.1	893.1	896.2	902.1	903.8	906.6	909.2	915.0	921.2
5°	829.3	834.2	845.8	852.2	861.0	871.2	877.9	885.0	892.7	906.1	918.4
7.5°	774.9	783.1	797.5	809.4	821.9	836.5	847.1	861.0	872.5	891.4	909.5
10°	738.5	750.1	763.2	777.2	794.8	810.3	825.1	842.7	856.8	879.3	900.4
12.5°	705.9	707.6	726.2	741.8	765.8	784.9	802.0	824.6	838.5	865.3	887.5
15°	648.8	659.3	676.2	688.5	717.0	741.3	765.3	788.8	804.6	837.7	867.0
17.5°	600.7	610.4	627.7	647.9	668.4	692.5	723.5	748.4	769.9	807.7	842.3
20°	570.2	582.2	599.8	620.6	638.6	665.0	691.6	720.2	743.4	786.0	826.5
22.5°	544.3	553.7	568.0	588.4	608.1	632.3	661.6	692.6	717.0	762.9	804.0
25°	507.9	515.7	524.8	541.8	563.9	590.3	613.2	647.3	682.9	725.9	775.4
27.5°	475.1	480.6	488.7	503.6	520.8	545.4	570.9	603.2	639.0	685.6	738.0
30°	455.2	458.6	466.7	479.1	496.0	515.3	541.0	572.0	608.6	655.8	707.8
32.5°	437.7	440.9	446.2	458.0	472.6	489.2	512.3	543.3	578.2	624.5	682.2
35°	411.5	414.0	418.5	428.0	436.1	452.3	471.6	499.8	532.5	576.9	636.8
37.5°	385.4	388.7	391.5	395.6	406.0	416.6	433.5	457.2	489.4	534.1	591.2
40°	368.2	371.0	375.2	377.0	385.4	394.9	408.7	430.5	462.9	503.7	559.3
42.5°	350.7	353.5	356.1	358.2	365.4	373.8	386.2	404.9	433.6	473.3	528.4
45°	327.0	327.3	329.8	333.7	337.2	343.2	352.0	368.2	390.4	427.7	477.7
47.5°	302.9	303.3	303.8	305.5	309.3	314.7	320.6	333.8	353.6	383.4	432.1
50°	286.9	286.2	286.9	288.3	290.8	295.3	302.0	311.5	327.7	355.5	400.2
52.5°	271.4	271.3	270.8	271.4	273.3	276.4	281.2	289.3	303.8	329.3	368.7
55°	247.8	246.0	246.4	245.0	248.2	248.8	252.4	259.1	271.7	289.4	326.3
57.5°	222.6	221.2	219.6	219.2	219.0	220.8	223.7	228.9	238.7	254.1	284.1
60°	206.6	204.9	202.7	202.1	202.1	203.1	204.5	208.4	217.5	231.3	255.9
62.5°	190.3	188.2	187.0	185.1	184.5	185.7	187.1	189.8	196.4	209.3	230.5
65°	165.1	162.6	160.9	160.5	159.9	158.7	159.5	162.3	167.6	177.8	194.6
67.5°	139.8	137.5	137.0	135.1	134.0	134.2	134.0	136.5	139.6	148.4	161.0
70°	123.2	121.4	120.7	118.9	118.3	117.5	116.9	118.9	122.2	129.5	140.4
72.5°	106.3	104.8	103.3	101.8	102.0	101.2	101.1	102.4	105.0	111.8	120.2
75°	82.0	82.4	80.6	78.9	78.5	77.8	77.8	78.9	79.9	85.2	91.9
77.5°	59.5	59.2	57.7	57.1	56.8	56.1	56.8	57.5	58.1	61.6	66.5
80°	45.4	45.4	43.6	43.6	43.3	42.2	43.3	42.6	44.0	47.5	51.1
82.5°	32.4	31.9	31.9	31.3	31.2	30.4	30.9	31.6	32.1	34.6	36.7
85°	15.8	15.8	15.5	15.2	15.5	15.2	15.5	15.8	16.2	17.2	19.0
87.5°	6.3	6.7	6.5	6.4	5.9	5.8	5.7	5.8	6.1	6.2	6.3
90°	14.8	15.0	12.8	10.7	8.7	6.6	5.0	3.9	2.7	1.6	0.5
92.5°	13.6	13.6	13.1	12.6	12.1	11.6	10.9	10.1	9.2	8.5	7.6
95°	27.3	27.3	27.1	27.0	26.8	26.6	26.0	25.1	24.1	23.2	22.2
97.5°	45.9	45.9	45.6	45.2	44.9	44.5	43.9	43.1	42.2	41.4	40.5
100°	58.9	58.9	58.6	58.3	58.1	57.8	57.3	56.6	55.7	55.0	54.2
102.5°	73.0	73.0	72.6	72.2	71.8	71.5	71.0	70.4	69.7	69.2	68.6
105°	94.2	94.0	93.8	93.6	93.4	93.2	92.9	92.7	92.4	92.1	91.8
107.5°	117.2	117.1	117.1	117.1	117.1	117.1	116.9	116.5	116.0	115.6	115.2
110°	132.8	132.8	132.8	132.8	132.8	132.8	132.5	132.0	131.4	130.8	130.3



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.6	148.8	148.9	149.0	149.1	149.2	148.9	148.4	147.8	147.2	146.7
115°	172.4	172.5	172.7	172.9	173.1	173.2	173.1	172.5	171.9	171.4	170.8
117.5°	195.7	196.0	196.4	197.0	197.6	198.0	197.9	197.2	196.4	195.7	194.9
120°	210.9	210.9	211.7	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9
122.5°	227.2	227.3	227.9	228.4	228.9	229.5	229.3	228.4	227.4	226.6	225.6
125°	250.8	251.1	251.4	251.7	251.9	252.2	251.9	251.1	250.2	249.4	248.5
127.5°	273.8	274.2	274.5	274.8	275.2	275.5	275.1	274.1	273.0	271.9	270.8
130°	289.4	289.5	289.7	289.9	290.1	290.3	289.7	288.5	287.3	286.1	284.8
132.5°	304.8	305.2	305.2	305.2	305.1	305.1	304.5	303.6	302.6	301.5	300.6
135°	327.0	327.1	326.9	326.7	326.5	326.3	325.7	324.7	323.7	322.6	321.6
137.5°	348.6	348.6	348.4	348.2	347.9	347.6	347.0	346.2	345.3	344.5	343.7
140°	363.0	363.0	362.5	362.0	361.6	361.1	360.4	359.6	358.7	357.9	357.0
142.5°	376.1	376.0	375.6	375.3	374.9	374.7	374.1	373.2	372.4	371.6	370.7
145°	396.0	395.9	395.3	394.7	394.2	393.6	392.9	392.3	391.6	391.0	390.3
147.5°	413.3	413.1	412.7	412.4	412.0	411.6	411.0	410.2	409.4	408.6	407.8
150°	424.3	424.0	423.7	423.3	422.9	422.5	422.1	421.5	420.9	420.4	419.8
152.5°	435.4	435.0	434.5	434.0	433.6	433.2	432.6	432.1	431.5	430.9	430.4
155°	449.3	448.8	448.6	448.3	448.0	447.7	447.4	447.1	446.8	446.5	446.2
157.5°	462.1	461.5	461.3	461.1	460.9	460.7	460.6	460.4	460.2	460.1	459.9
160°	469.9	469.3	469.2	469.1	469.0	468.9	468.8	468.6	468.4	468.3	468.1
162.5°	476.7	476.2	476.1	476.0	475.9	475.8	475.7	475.6	475.6	475.6	475.5
165°	485.8	485.1	485.1	485.1	485.1	485.1	485.1	485.2	485.3	485.4	485.5
167.5°	493.2	492.6	492.6	492.6	492.6	492.6	492.8	493.0	493.3	493.6	493.9
170°	497.3	496.6	496.7	496.8	496.9	497.0	497.2	497.5	497.8	498.0	498.3
172.5°	500.4	499.7	499.8	499.9	500.0	500.1	500.3	500.6	500.9	501.1	501.4
175°	503.7	503.0	503.2	503.4	503.6	503.8	504.1	504.4	504.6	504.9	505.2
177.5°	505.5	505.0	505.1	505.3	505.5	505.6	505.8	506.1	506.2	506.5	506.7
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	920.7	922.1	926.6	931.1	936.1	937.5	939.8	937.8	937.3	942.6	946.6
5°	923.3	929.6	942.0	953.2	962.7	969.4	976.5	979.3	984.6	991.9	1001.1
7.5°	920.3	932.6	952.1	968.5	986.3	999.2	1009.3	1017.9	1028.2	1042.3	1057.5
10°	917.0	933.5	957.1	977.1	999.0	1015.5	1029.3	1042.6	1058.1	1077.5	1097.5
12.5°	910.8	930.4	959.9	983.6	1011.6	1027.9	1046.4	1075.3	1091.9	1118.9	1147.1
15°	898.3	920.1	961.3	990.5	1022.2	1053.2	1087.3	1114.7	1142.3	1158.1	1197.9
17.5°	879.8	911.8	957.4	991.6	1031.8	1080.5	1118.9	1150.1	1181.8	1207.4	1227.4
20°	864.9	899.8	951.8	992.7	1040.5	1093.0	1137.0	1168.7	1196.1	1217.6	1229.9
22.5°	846.0	889.9	940.6	988.4	1049.5	1101.5	1147.6	1172.6	1195.5	1206.0	1210.7
25°	816.2	869.1	926.4	984.9	1053.9	1108.8	1151.0	1166.2	1172.9	1162.6	1145.8
27.5°	784.3	843.1	910.2	978.3	1051.2	1104.0	1134.3	1131.9	1120.6	1087.5	1061.1
30°	760.3	825.1	897.2	971.5	1044.7	1096.1	1113.7	1096.1	1070.4	1033.5	995.8
32.5°	735.3	802.3	883.4	962.0	1032.9	1078.1	1081.9	1051.6	1011.8	969.9	922.8
35°	697.3	769.9	857.4	940.6	1007.8	1036.3	1019.4	965.9	918.7	861.4	797.3
37.5°	654.4	734.5	822.4	909.2	970.2	977.6	935.7	879.3	812.8	745.4	670.0
40°	622.4	707.2	797.7	885.2	939.1	931.4	877.9	816.0	736.7	654.4	584.3
42.5°	593.6	678.4	770.6	856.6	899.8	878.4	816.0	739.9	654.8	577.2	513.1
45°	543.8	631.1	725.5	808.5	833.2	794.8	712.1	627.6	543.8	479.1	428.4
47.5°	495.6	581.8	675.2	748.3	757.1	705.4	615.0	528.1	456.1	403.3	367.6
50°	460.1	546.7	639.2	704.4	701.5	639.2	546.3	463.5	403.4	360.8	336.9
52.5°	428.2	510.0	599.0	658.2	643.3	575.3	486.6	413.2	363.7	330.4	308.7
55°	378.7	454.4	538.9	586.4	559.0	483.6	408.7	349.5	312.9	287.9	271.1
57.5°	329.6	400.6	472.9	502.2	471.8	402.3	339.8	296.9	269.4	250.8	239.9
60°	299.2	361.2	425.6	450.9	414.6	352.7	303.4	265.0	242.9	227.7	217.9
62.5°	268.8	324.2	385.0	398.8	365.6	313.3	269.7	237.7	219.5	206.0	196.8
65°	227.4	272.8	319.0	328.1	297.5	256.9	222.4	201.7	185.5	175.7	168.2
67.5°	186.5	222.9	255.6	263.0	236.2	208.1	183.1	165.1	154.1	145.9	139.7
70°	162.3	191.1	217.9	223.9	202.4	177.4	158.4	143.9	134.1	127.1	121.1
72.5°	136.7	160.7	182.9	187.0	169.5	150.3	134.8	123.4	114.7	110.2	104.4
75°	104.5	118.7	135.9	137.0	125.4	113.7	101.7	94.3	89.7	84.2	81.3
77.5°	73.8	84.8	94.7	96.6	89.7	81.8	75.1	69.3	65.4	62.8	60.2
80°	56.4	65.1	69.4	71.8	66.9	61.3	57.4	53.5	51.1	49.3	47.5
82.5°	40.2	45.7	49.7	51.6	48.8	45.5	41.6	39.4	37.5	36.0	35.4
85°	20.5	22.9	25.4	26.0	25.4	23.9	21.9	21.9	20.7	20.5	20.5
87.5°	7.4	8.7	9.0	10.0	9.8	10.2	10.6	10.7	10.8	10.6	10.3
90°	1.6	2.7	3.9	5.0	6.6	8.7	10.7	12.8	15.0	14.8	14.6
92.5°	8.5	9.2	10.1	10.9	11.6	12.1	12.6	13.1	13.6	13.6	13.7
95°	23.2	24.1	25.1	26.0	26.6	26.8	27.0	27.1	27.3	27.3	27.3
97.5°	41.4	42.2	43.1	43.9	44.5	44.9	45.2	45.6	45.9	45.9	45.9
100°	55.0	55.7	56.6	57.3	57.8	58.1	58.3	58.6	58.9	58.9	58.9
102.5°	69.2	69.7	70.4	71.0	71.5	71.8	72.2	72.6	73.0	73.0	73.0
105°	92.1	92.4	92.7	92.9	93.2	93.4	93.6	93.8	94.0	94.2	94.3
107.5°	115.6	116.0	116.5	116.9	117.1	117.1	117.1	117.1	117.1	117.2	117.3
110°	130.8	131.4	132.0	132.5	132.8	132.8	132.8	132.8	132.8	132.8	132.8



TEST NUMBER: P331496-830

CATALOG NUMBER: S122DIW-S485D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	147.2	147.8	148.4	148.9	149.2	149.1	149.0	148.9	148.8	148.6	148.5
115°	171.4	171.9	172.5	173.1	173.2	173.1	172.9	172.7	172.5	172.4	172.3
117.5°	195.7	196.4	197.2	197.9	198.0	197.6	197.0	196.4	196.0	195.7	195.5
120°	211.7	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9	210.9	210.9
122.5°	226.6	227.4	228.4	229.3	229.5	228.9	228.4	227.9	227.3	227.2	226.9
125°	249.4	250.2	251.1	251.9	252.2	251.9	251.7	251.4	251.1	250.8	250.5
127.5°	271.9	273.0	274.1	275.1	275.5	275.2	274.8	274.5	274.2	273.8	273.4
130°	286.1	287.3	288.5	289.7	290.3	290.1	289.9	289.7	289.5	289.4	289.2
132.5°	301.5	302.6	303.6	304.5	305.1	305.1	305.2	305.2	305.2	304.8	304.4
135°	322.6	323.7	324.7	325.7	326.3	326.5	326.7	326.9	327.1	327.0	326.9
137.5°	344.5	345.3	346.2	347.0	347.6	347.9	348.2	348.4	348.6	348.6	348.5
140°	357.9	358.7	359.6	360.4	361.1	361.6	362.0	362.5	363.0	363.0	363.0
142.5°	371.6	372.4	373.2	374.1	374.7	374.9	375.3	375.6	376.0	376.1	376.1
145°	391.0	391.6	392.3	392.9	393.6	394.2	394.7	395.3	395.9	396.0	396.1
147.5°	408.6	409.4	410.2	411.0	411.6	412.0	412.4	412.7	413.1	413.3	413.5
150°	420.4	420.9	421.5	422.1	422.5	422.9	423.3	423.7	424.0	424.3	424.6
152.5°	430.9	431.5	432.1	432.6	433.2	433.6	434.0	434.5	435.0	435.4	435.6
155°	446.5	446.8	447.1	447.4	447.7	448.0	448.3	448.6	448.8	449.3	449.8
157.5°	460.1	460.2	460.4	460.6	460.7	460.9	461.1	461.3	461.5	462.1	462.7
160°	468.3	468.4	468.6	468.8	468.9	469.0	469.1	469.2	469.3	469.9	470.4
162.5°	475.6	475.6	475.6	475.7	475.8	475.9	476.0	476.1	476.2	476.7	477.4
165°	485.4	485.3	485.2	485.1	485.1	485.1	485.1	485.1	485.1	485.8	486.4
167.5°	493.6	493.3	493.0	492.8	492.6	492.6	492.6	492.6	492.6	493.2	493.9
170°	498.0	497.8	497.5	497.2	497.0	496.9	496.8	496.7	496.6	497.3	497.9
172.5°	501.1	500.9	500.6	500.3	500.1	500.0	499.9	499.8	499.7	500.4	501.1
175°	504.9	504.6	504.4	504.1	503.8	503.6	503.4	503.2	503.0	503.7	504.4
177.5°	506.5	506.2	506.1	505.8	505.6	505.5	505.3	505.1	505.0	505.5	506.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	950.0	953.9	953.9	954.5	958.9	958.5	958.2
5°	1011.0	1016.9	1017.7	1024.0	1028.2	1026.8	1022.9
7.5°	1068.5	1079.6	1088.1	1092.8	1098.3	1101.7	1100.2
10°	1114.1	1130.3	1140.1	1146.8	1154.9	1160.9	1158.8
12.5°	1155.5	1174.8	1188.3	1199.8	1200.8	1208.5	1203.2
15°	1220.0	1240.5	1242.6	1251.0	1257.7	1257.0	1257.4
17.5°	1241.3	1247.9	1249.2	1249.4	1249.5	1247.1	1241.7
20°	1233.8	1231.3	1225.3	1220.8	1212.7	1211.5	1204.6
22.5°	1197.7	1189.9	1174.9	1165.0	1152.4	1149.1	1147.1
25°	1126.7	1109.5	1085.5	1062.7	1056.3	1044.1	1047.5
27.5°	1029.4	1002.5	976.6	958.0	941.2	922.7	928.0
30°	960.9	930.7	894.1	865.9	848.0	830.4	827.2
32.5°	879.3	834.9	794.1	769.3	741.8	730.7	718.5
35°	738.5	695.2	654.7	619.9	599.8	584.3	570.2
37.5°	611.8	562.0	529.3	501.1	486.6	477.8	479.9
40°	533.3	489.7	465.7	444.2	430.8	424.5	425.9
42.5°	469.7	437.0	417.3	402.6	393.1	389.6	388.7
45°	397.4	379.1	362.9	354.5	349.9	346.0	343.6
47.5°	348.2	333.2	324.0	319.1	315.0	311.1	311.0
50°	318.6	308.7	302.4	297.1	293.9	291.1	293.6
52.5°	296.1	287.0	280.7	276.0	274.8	272.2	272.2
55°	262.6	255.5	251.0	246.8	244.7	243.3	241.5
57.5°	232.1	225.5	221.3	218.6	214.6	213.2	212.6
60°	210.5	205.2	201.0	197.5	195.7	192.9	192.9
62.5°	190.5	185.2	181.3	178.6	175.7	174.6	174.8
65°	161.6	157.3	153.4	150.6	150.0	147.9	148.5
67.5°	135.0	132.1	128.1	126.5	125.2	124.0	123.2
70°	117.3	114.4	112.3	110.2	109.1	109.1	109.1
72.5°	102.3	98.9	97.6	95.0	95.6	94.4	93.3
75°	79.2	77.1	76.1	74.9	73.2	73.2	73.2
77.5°	58.2	57.7	56.4	55.2	54.9	54.5	54.7
80°	45.1	44.7	44.0	44.0	43.3	43.0	42.2
82.5°	34.6	33.7	33.3	33.0	32.9	32.8	32.7
85°	19.7	19.0	19.0	19.3	18.7	18.7	19.0
87.5°	10.5	10.5	10.2	10.2	10.5	10.2	10.2
90°	14.4	14.2	14.1	14.2	14.3	14.4	14.5
92.5°	13.7	13.8	13.8	13.8	13.8	13.9	13.9
95°	27.3	27.3	27.2	27.1	26.9	26.7	26.5
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9
100°	58.9	58.9	58.9	58.8	58.7	58.6	58.5
102.5°	73.1	73.2	73.2	73.1	73.0	73.0	72.9
105°	94.5	94.7	94.8	94.8	94.8	94.8	94.8
107.5°	117.3	117.4	117.3	116.8	116.3	115.9	115.5
110°	132.8	132.8	132.6	132.3	132.1	131.8	131.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	148.2	148.0	147.7	147.5	147.3	147.1	146.9
115°	172.2	172.1	171.9	171.6	171.4	171.1	170.8
117.5°	195.2	195.0	194.7	194.4	194.2	193.9	193.6
120°	210.9	210.9	210.8	210.6	210.3	210.0	209.7
122.5°	226.7	226.4	226.2	226.0	225.8	225.6	225.4
125°	250.2	250.0	249.8	249.7	249.6	249.5	249.4
127.5°	273.1	272.8	272.5	272.1	271.8	271.5	271.3
130°	289.0	288.8	288.5	288.1	287.8	287.4	287.0
132.5°	304.0	303.6	303.2	302.9	302.6	302.3	302.0
135°	326.8	326.7	326.5	326.2	325.9	325.6	325.4
137.5°	348.4	348.4	348.1	347.7	347.3	346.9	346.6
140°	363.0	363.0	362.8	362.4	362.0	361.7	361.3
142.5°	376.2	376.3	376.1	375.7	375.3	374.9	374.6
145°	396.2	396.2	396.1	395.7	395.3	394.9	394.5
147.5°	413.8	414.0	413.9	413.5	413.1	412.7	412.5
150°	424.9	425.2	425.2	424.9	424.6	424.3	424.0
152.5°	436.0	436.4	436.4	436.0	435.6	435.4	435.0
155°	450.3	450.7	450.8	450.5	450.3	450.0	449.7
157.5°	463.4	464.0	464.1	463.6	463.2	462.8	462.3
160°	471.0	471.6	471.6	471.3	470.9	470.5	470.1
162.5°	478.1	478.7	478.8	478.3	477.9	477.4	477.0
165°	487.1	487.8	487.9	487.4	486.9	486.4	486.0
167.5°	494.6	495.2	495.3	494.7	494.3	493.8	493.3
170°	498.6	499.3	499.4	498.8	498.2	497.7	497.1
172.5°	501.7	502.4	502.4	501.8	501.2	500.7	500.1
175°	505.0	505.7	505.8	505.2	504.6	504.1	503.5
177.5°	506.3	506.8	506.8	506.3	506.0	505.5	505.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1

(END OF REPORT)