

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: P332746-940

Luminaire Tested: **S124DIW-S575D470U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332746-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S575D470U940-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3761.9 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

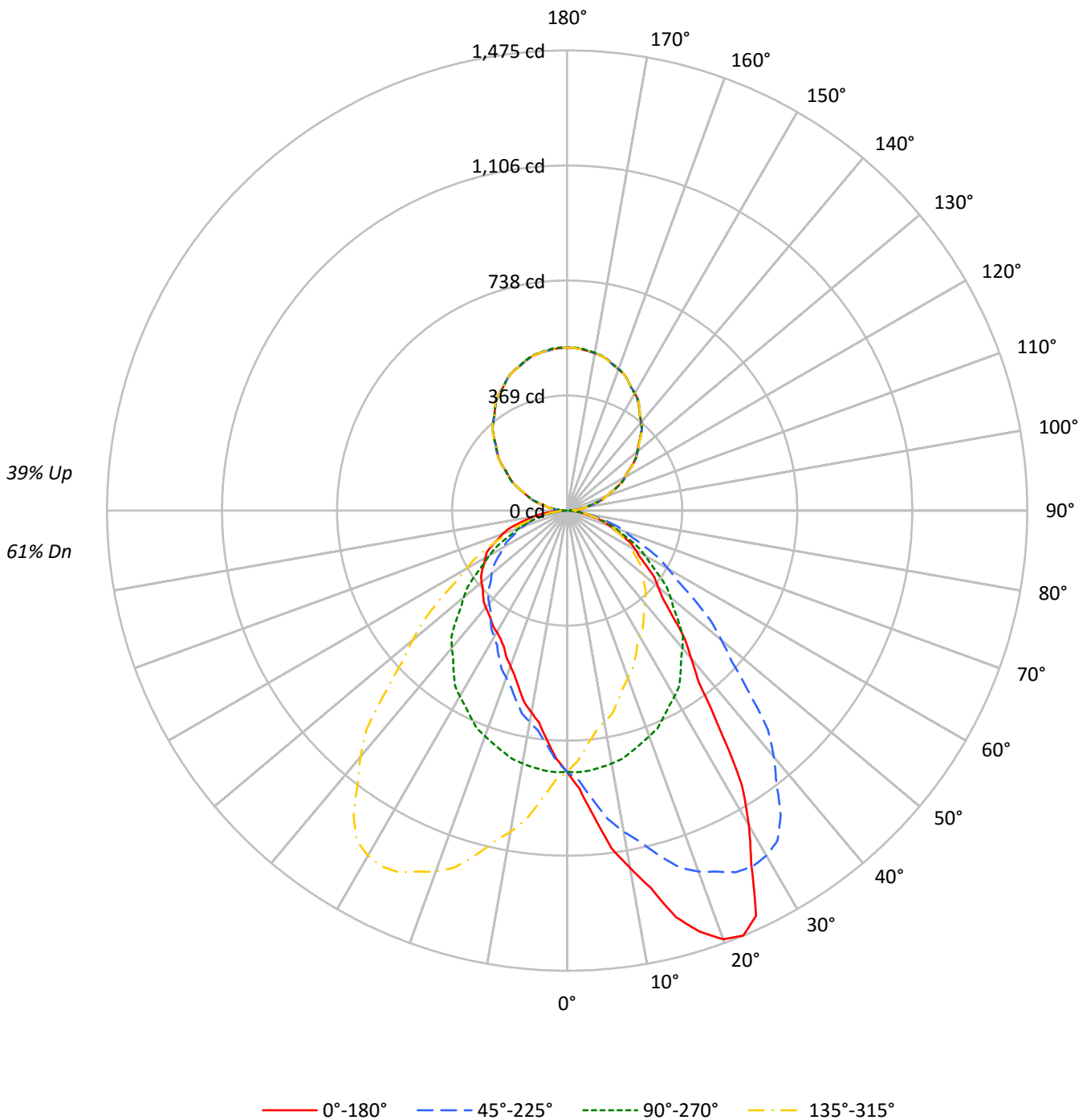
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	50	48	44
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	47	44	41	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	44	39	44	39	35	38	34	31	29
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	35	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25	22
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6761	6761	6761	6761
5°	7963	6779	5983	6779
10°	9534	6749	5387	6749
15°	11280	6680	4947	6680
20°	12560	6611	4554	6611
25°	12764	6509	4284	6509
30°	10860	6411	4198	6411
35°	8349	6250	4199	6250
40°	6509	6062	4278	6062
45°	5426	5779	4349	5779
50°	4775	5434	4496	5434
55°	4376	5020	4677	5020
60°	4101	4648	4897	4648
65°	3817	4235	5075	4235
70°	3489	3824	5193	3824
75°	3119	3366	5128	3366
80°	2613	2757	4965	2757
85°	1927	1991	4761	1991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	2.2
10°-20°	251.5	6.7
20°-30°	398.8	10.6
30°-40°	443.8	11.8
40°-50°	404.0	10.7
50°-60°	330.1	8.8
60°-70°	235.7	6.3
70°-80°	129.8	3.5
80°-90°	37.0	1.0
90°-100°	34.5	0.9
100°-110°	102.1	2.7
110°-120°	173.3	4.6
120°-130°	228.5	6.1
130°-140°	256.6	6.8
140°-150°	252.1	6.7
150°-160°	212.1	5.6
160°-170°	141.1	3.8
170°-180°	49.4	1.3
0°-30°	731.9	19.5
0°-40°	1175.7	31.3
0°-60°	1909.9	50.8
0°-90°	2312.3	61.5
90°-120°	309.8	8.2
90°-150°	1047.0	27.8
90°-180°	1450.0	38.5
0°-180°	3761.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	838	838	838	838	838	
5°	983	836	738	836	983	100
15°	1350	799	592	799	1350	381
25°	1433	731	481	731	1433	632
35°	847	634	426	634	847	538
45°	475	506	381	506	475	374
55°	311	357	332	357	311	281
65°	200	222	266	222	200	198
75°	100	108	164	108	100	106
85°	21	22	51	22	21	26
90°	12	1	12	1	12	7
95°	32	24	32	24	32	33
105°	99	94	99	94	99	104
115°	175	176	175	176	175	173
125°	255	256	255	256	255	227
135°	331	331	331	331	331	256
145°	402	402	402	402	402	252
155°	460	461	460	461	460	212
165°	500	501	500	501	500	141
175°	519	522	519	522	519	49
180°	522	522	522	522	522	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	891.4	891.1	888.3	887.8	885.8	883.3	882.8	878.3	869.4	865.3	864.2
5°	982.6	989.5	980.4	978.7	977.7	966.3	960.4	953.4	937.5	928.1	920.8
7.5°	1091.4	1092.2	1088.2	1085.0	1076.2	1066.2	1051.2	1035.3	1016.3	996.5	981.6
10°	1163.0	1165.7	1161.3	1160.6	1142.8	1131.8	1109.6	1090.8	1069.3	1045.4	1023.5
12.5°	1238.5	1234.6	1232.3	1217.5	1214.2	1193.9	1168.1	1148.8	1115.6	1088.1	1059.0
15°	1349.6	1342.0	1337.1	1316.7	1306.6	1278.5	1251.1	1229.9	1186.6	1145.3	1114.0
17.5°	1414.9	1422.5	1411.2	1402.8	1376.8	1357.1	1329.1	1284.7	1250.7	1199.4	1160.0
20°	1462.0	1462.8	1456.5	1447.8	1427.4	1402.4	1371.8	1323.3	1282.6	1231.6	1177.5
22.5°	1474.8	1475.0	1472.3	1464.2	1448.7	1428.4	1397.7	1357.1	1308.0	1252.5	1198.4
25°	1432.9	1431.6	1434.7	1443.7	1437.8	1431.6	1413.8	1383.7	1337.8	1279.2	1220.9
27.5°	1277.2	1286.7	1304.4	1326.6	1348.0	1364.2	1368.9	1362.7	1334.3	1286.0	1225.0
30°	1165.0	1176.9	1190.0	1212.3	1255.3	1279.9	1307.0	1327.4	1316.0	1277.5	1220.6
32.5°	1041.8	1044.7	1064.3	1089.6	1129.0	1176.3	1219.2	1260.8	1274.6	1254.5	1206.9
35°	847.2	852.1	873.3	898.2	946.5	1004.4	1069.0	1126.5	1174.1	1193.2	1168.9
37.5°	691.4	705.3	720.2	747.1	789.6	841.8	908.8	983.3	1054.2	1101.6	1109.6
40°	617.6	626.2	637.0	657.5	693.6	744.9	802.5	887.9	963.1	1031.2	1053.4
42.5°	559.3	564.4	571.0	589.4	617.0	668.0	720.6	795.7	871.3	952.6	989.8
45°	475.3	480.5	491.6	502.4	523.2	558.6	607.5	669.2	745.2	823.7	892.3
47.5°	414.6	418.0	424.6	436.1	453.8	477.2	516.9	568.5	638.9	715.1	788.3
50°	380.2	383.0	388.3	398.7	412.1	433.0	465.6	513.8	569.0	645.7	717.5
52.5°	353.0	354.2	358.0	365.1	375.9	393.3	420.1	459.9	511.3	579.6	651.1
55°	310.9	312.3	315.8	320.9	330.3	341.4	361.9	391.7	436.5	495.8	557.9
57.5°	276.2	277.1	280.1	282.0	289.8	298.8	314.5	335.8	369.8	420.1	475.5
60°	254.0	253.2	256.7	258.5	263.7	271.3	283.5	303.9	333.4	374.0	425.0
62.5°	232.3	231.3	234.3	236.6	239.5	246.0	256.0	272.0	296.0	332.7	376.7
65°	199.8	198.5	200.2	203.0	205.7	209.2	216.5	230.7	249.8	276.2	309.8
67.5°	167.2	168.7	169.0	170.3	171.9	176.6	181.6	191.7	205.2	226.3	254.8
70°	147.8	148.1	149.5	149.5	150.6	154.7	158.9	164.8	178.0	197.4	220.7
72.5°	128.4	129.8	129.3	130.4	131.2	133.9	137.0	142.6	153.8	168.3	187.9
75°	100.0	100.9	100.9	101.3	102.4	103.3	105.8	109.9	118.0	128.7	142.2
77.5°	72.9	73.0	73.5	74.7	74.7	76.4	78.2	81.5	85.5	92.8	101.1
80°	56.2	56.9	56.5	57.2	57.2	58.7	59.3	63.5	65.2	70.1	76.7
82.5°	41.2	41.9	41.8	42.8	43.3	43.6	44.6	46.3	48.0	52.3	55.0
85°	20.8	21.5	20.8	21.5	22.6	22.9	23.9	24.3	25.7	26.8	29.2
87.5°	8.6	9.4	9.3	9.5	10.1	10.3	10.4	10.1	11.1	11.2	12.2
90°	12.1	11.9	11.8	11.6	11.4	11.1	10.5	10.0	9.5	8.9	8.2
92.5°	17.9	17.8	17.7	17.7	17.5	17.3	16.9	16.7	16.3	16.0	15.5
95°	31.9	31.9	31.9	31.9	31.9	31.7	31.5	31.2	30.9	30.7	30.1
97.5°	50.0	50.0	50.0	50.0	50.0	49.8	49.6	49.2	48.9	48.6	47.8
100°	62.6	62.6	62.6	62.6	62.6	62.5	62.3	62.2	62.0	61.8	61.0
102.5°	76.9	76.8	76.7	76.6	76.6	76.4	76.2	75.9	75.6	75.4	74.6
105°	98.6	98.4	98.1	97.8	97.6	97.3	97.0	96.8	96.4	96.1	95.8
107.5°	119.8	119.8	119.8	119.8	119.8	119.8	119.5	119.2	119.0	118.7	118.7
110°	134.9	134.6	134.4	134.1	133.8	133.8	134.0	134.2	134.4	134.6	134.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	150.4	150.4	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.4	150.5
115°	174.6	174.7	174.8	174.9	175.0	175.0	175.1	175.2	175.3	175.4	175.6
117.5°	197.5	197.7	197.9	198.0	198.2	198.5	198.8	199.1	199.4	199.7	199.8
120°	215.0	214.8	214.6	214.5	214.3	214.4	214.8	215.3	215.7	216.2	216.4
122.5°	229.5	229.8	230.2	230.5	230.8	231.1	231.4	231.8	232.0	232.4	232.5
125°	254.6	254.8	254.9	255.1	255.3	255.5	255.7	255.8	256.0	256.2	256.3
127.5°	277.8	277.9	278.0	278.2	278.3	278.5	278.7	278.8	279.0	279.2	279.4
130°	292.9	293.3	293.6	294.0	294.4	294.6	294.8	295.0	295.2	295.3	295.3
132.5°	309.2	309.2	309.4	309.5	309.7	309.9	310.0	310.2	310.4	310.6	310.7
135°	331.4	331.6	331.9	332.2	332.4	332.6	332.8	333.0	333.1	333.3	333.3
137.5°	354.7	354.6	354.5	354.5	354.5	354.5	354.8	355.0	355.3	355.5	355.3
140°	368.9	369.0	369.1	369.2	369.3	369.3	369.4	369.5	369.6	369.7	369.7
142.5°	383.2	383.2	383.2	383.2	383.2	383.3	383.3	383.3	383.3	383.3	383.3
145°	402.4	402.7	403.0	403.2	403.5	403.7	403.8	403.9	403.9	404.0	403.9
147.5°	422.0	422.1	422.2	422.3	422.4	422.5	422.5	422.6	422.7	422.8	422.8
150°	434.0	434.1	434.2	434.3	434.4	434.4	434.4	434.4	434.4	434.4	434.4
152.5°	445.0	445.2	445.4	445.7	445.9	445.9	445.7	445.5	445.2	445.1	445.0
155°	460.2	460.6	460.9	461.3	461.6	461.6	461.3	460.9	460.6	460.2	460.3
157.5°	473.9	474.2	474.5	474.8	475.1	475.1	474.8	474.6	474.3	474.0	474.0
160°	481.6	482.1	482.6	483.0	483.5	483.6	483.3	483.0	482.8	482.5	482.6
162.5°	489.7	490.2	490.6	491.1	491.5	491.5	491.1	490.5	490.1	489.5	489.6
165°	500.2	500.6	501.0	501.3	501.7	501.6	501.1	500.5	500.0	499.4	499.6
167.5°	507.7	508.3	508.9	509.4	510.0	510.0	509.4	508.9	508.4	507.8	507.8
170°	511.9	512.6	513.2	513.8	514.4	514.5	514.0	513.4	512.9	512.4	512.3
172.5°	515.5	516.1	516.7	517.4	518.0	518.0	517.5	516.8	516.2	515.6	515.6
175°	519.2	519.9	520.5	521.1	521.7	521.7	521.1	520.5	519.9	519.2	519.3
177.5°	521.2	521.7	522.4	522.9	523.4	523.5	523.0	522.5	522.0	521.5	521.5
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	864.4	860.6	857.8	855.6	849.4	845.9	843.1	839.2	834.7	830.0	824.2
5°	913.6	901.7	893.0	879.9	867.4	856.9	846.2	836.5	824.7	811.9	802.5
7.5°	965.1	947.5	925.1	905.5	883.6	864.5	847.5	830.0	811.8	794.2	778.0
10°	997.8	975.3	950.3	920.8	893.0	868.4	845.5	823.3	801.8	780.2	761.9
12.5°	1033.0	1005.0	968.0	933.5	902.5	869.5	841.9	814.7	788.7	766.2	744.7
15°	1080.4	1039.8	997.1	951.0	910.1	871.6	833.7	799.3	770.3	740.4	719.6
17.5°	1109.5	1059.3	1010.5	962.2	912.7	864.1	823.3	783.7	747.2	717.6	691.3
20°	1128.6	1078.7	1018.0	969.7	910.7	860.8	813.6	769.5	731.4	699.8	672.7
22.5°	1145.3	1087.5	1026.8	963.3	904.6	851.6	800.0	755.6	716.7	683.4	657.5
25°	1154.3	1088.1	1022.1	958.9	892.3	829.6	782.7	730.7	689.0	654.0	626.2
27.5°	1155.3	1084.4	1009.9	939.7	870.9	812.4	753.3	706.8	663.6	626.5	599.9
30°	1152.2	1078.3	998.2	922.2	853.2	789.6	738.3	687.7	643.5	606.8	579.1
32.5°	1142.5	1065.5	983.2	902.8	831.3	769.1	716.1	668.0	625.0	588.8	559.6
35°	1114.4	1038.4	950.7	867.0	793.8	731.0	683.1	634.2	591.2	556.9	528.8
37.5°	1070.5	1001.7	912.6	826.0	754.1	691.1	643.5	599.4	560.6	525.7	496.9
40°	1032.2	971.8	882.3	798.0	720.2	660.2	615.8	575.2	536.7	503.7	476.4
42.5°	988.0	935.4	852.8	763.6	688.6	628.3	585.1	548.6	512.3	481.9	454.4
45°	909.4	874.7	796.9	714.3	636.3	579.4	538.1	506.2	475.6	445.9	422.9
47.5°	818.9	801.6	736.2	657.8	583.7	527.6	491.9	462.4	435.6	410.3	390.1
50°	758.0	749.8	693.2	617.6	546.8	494.1	458.0	432.7	409.7	387.5	368.5
52.5°	698.1	697.9	646.8	577.6	512.1	461.3	425.5	401.8	382.0	363.9	346.8
55°	606.5	616.2	576.3	514.5	455.9	410.1	377.8	356.7	342.8	327.9	315.0
57.5°	522.3	538.4	505.5	451.1	402.2	360.0	331.9	316.0	301.2	292.2	282.9
60°	467.3	482.6	456.9	411.2	365.0	328.9	302.2	287.9	275.1	268.9	262.3
62.5°	418.5	432.1	413.0	370.6	330.6	295.9	273.3	259.7	251.0	244.2	239.8
65°	348.7	360.2	343.8	313.0	278.6	250.8	232.5	221.7	213.4	210.6	205.7
67.5°	281.9	292.3	283.5	257.3	229.7	208.7	194.3	184.0	179.1	176.6	173.2
70°	242.2	252.6	243.2	220.3	199.1	181.5	167.9	162.0	156.9	155.8	151.0
72.5°	208.6	215.7	206.3	188.4	170.3	155.3	144.9	138.8	136.0	134.1	131.5
75°	156.5	162.7	156.5	142.6	129.7	119.3	110.3	107.9	104.8	103.7	102.0
77.5°	110.8	116.2	111.4	102.7	93.1	85.1	80.3	77.1	76.4	74.6	75.4
80°	84.6	88.1	83.6	77.8	70.1	64.6	61.1	59.3	57.2	56.5	58.0
82.5°	60.8	62.3	60.0	56.1	50.4	46.7	44.4	42.4	42.0	42.1	42.1
85°	31.6	31.2	30.9	27.4	25.7	23.3	21.8	21.5	21.1	21.8	22.6
87.5°	12.0	12.1	11.8	10.4	9.5	8.4	7.9	7.5	7.9	8.4	8.9
90°	7.5	6.8	6.0	5.2	4.2	3.2	2.2	1.2	2.2	3.2	4.2
92.5°	15.0	14.5	14.0	13.2	12.0	10.9	9.8	8.6	9.8	10.9	12.0
95°	29.4	28.8	28.2	27.5	26.7	25.9	25.1	24.3	25.1	25.9	26.7
97.5°	47.1	46.4	45.7	44.9	44.3	43.6	43.0	42.4	43.0	43.6	44.3
100°	60.2	59.4	58.6	58.1	57.6	57.2	56.9	56.5	56.9	57.2	57.6
102.5°	73.9	73.2	72.5	72.1	71.9	71.7	71.6	71.4	71.6	71.7	71.9
105°	95.4	95.1	94.7	94.5	94.4	94.3	94.3	94.2	94.3	94.3	94.4
107.5°	118.6	118.6	118.5	118.4	118.3	118.2	118.1	118.0	118.1	118.2	118.3
110°	134.7	134.8	134.9	134.8	134.6	134.5	134.3	134.1	134.3	134.5	134.6





TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	150.7	150.9	151.1	151.1	151.1	151.1	151.0	151.0	151.0	151.1	151.1
115°	175.8	175.9	176.1	176.2	176.2	176.2	176.2	176.2	176.2	176.2	176.2
117.5°	199.9	200.1	200.2	200.2	200.2	200.1	200.0	199.9	200.0	200.1	200.2
120°	216.7	217.0	217.2	217.2	216.9	216.5	216.2	215.8	216.2	216.5	216.9
122.5°	232.6	232.7	232.8	232.8	232.6	232.6	232.4	232.3	232.4	232.6	232.6
125°	256.4	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5
127.5°	279.5	279.6	279.8	279.7	279.5	279.2	278.9	278.7	278.9	279.2	279.5
130°	295.3	295.3	295.3	295.2	295.0	294.7	294.4	294.2	294.4	294.7	295.0
132.5°	310.7	310.8	310.9	310.8	310.6	310.4	310.2	310.0	310.2	310.4	310.6
135°	333.3	333.3	333.3	333.1	332.5	332.0	331.4	330.9	331.4	332.0	332.5
137.5°	355.3	355.1	354.9	354.7	354.5	354.2	354.0	353.7	354.0	354.2	354.5
140°	369.7	369.7	369.7	369.6	369.4	369.3	369.1	368.9	369.1	369.3	369.4
142.5°	383.4	383.5	383.6	383.5	383.3	383.2	383.0	382.8	383.0	383.2	383.3
145°	403.9	403.8	403.7	403.5	403.1	402.8	402.4	402.1	402.4	402.8	403.1
147.5°	422.8	422.9	423.0	422.8	422.4	422.0	421.5	421.2	421.5	422.0	422.4
150°	434.4	434.4	434.4	434.2	433.8	433.5	433.1	432.7	433.1	433.5	433.8
152.5°	444.9	444.8	444.8	444.6	444.4	444.2	444.0	443.7	444.0	444.2	444.4
155°	460.4	460.5	460.6	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
157.5°	474.1	474.1	474.1	474.2	474.4	474.6	474.7	474.8	474.7	474.6	474.4
160°	482.7	482.8	482.9	483.0	483.0	483.1	483.2	483.3	483.2	483.1	483.0
162.5°	489.7	489.8	489.9	490.1	490.4	490.5	490.8	491.1	490.8	490.5	490.4
165°	499.8	500.0	500.2	500.3	500.6	500.9	501.1	501.4	501.1	500.9	500.6
167.5°	507.8	507.7	507.7	507.9	508.4	508.7	509.1	509.4	509.1	508.7	508.4
170°	512.2	512.1	512.0	512.2	512.6	513.1	513.5	514.0	513.5	513.1	512.6
172.5°	515.6	515.5	515.5	515.7	516.1	516.5	516.8	517.2	516.8	516.5	516.1
175°	519.4	519.5	519.6	519.9	520.3	520.8	521.2	521.7	521.2	520.8	520.3
177.5°	521.5	521.5	521.5	521.7	522.0	522.4	522.7	523.1	522.7	522.4	522.0
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	821.4	818.9	815.3	810.3	806.2	801.7	800.6	799.0	802.3	799.5	798.7
5°	794.5	787.2	777.8	767.1	760.9	751.8	750.1	746.6	743.2	742.8	739.3
7.5°	766.0	755.3	743.1	732.1	721.9	712.1	705.6	704.3	699.1	696.2	692.7
10°	747.7	734.5	720.2	709.9	698.0	687.7	680.4	676.2	672.7	668.9	665.5
12.5°	726.0	712.0	700.3	689.0	675.0	667.1	655.1	647.9	647.2	647.3	638.3
15°	700.8	687.0	668.9	653.0	645.3	630.1	623.5	615.1	609.9	604.8	600.6
17.5°	672.1	654.8	640.7	622.3	607.8	595.7	586.9	581.9	574.2	566.8	561.4
20°	654.0	635.6	620.7	601.3	585.3	570.4	563.1	556.2	550.3	544.0	538.1
22.5°	635.7	616.4	598.2	579.3	564.5	548.8	541.7	532.3	526.6	523.2	517.3
25°	606.8	586.0	565.2	547.2	531.9	518.0	508.6	501.3	495.1	492.3	488.5
27.5°	575.4	554.7	534.7	514.2	496.9	486.8	479.3	473.8	470.2	466.5	464.8
30°	555.4	534.0	512.5	493.4	477.4	467.3	460.4	456.6	453.8	452.1	450.3
32.5°	535.2	514.0	491.3	473.9	459.7	450.7	445.4	441.6	440.2	439.6	439.0
35°	502.7	481.3	460.4	444.8	431.2	427.8	423.3	421.2	420.5	422.9	424.0
37.5°	471.3	451.3	432.1	417.1	408.1	403.1	401.5	401.6	404.1	406.3	408.8
40°	451.0	431.6	413.6	400.4	392.1	389.0	388.3	389.9	392.7	395.2	398.0
42.5°	431.3	412.1	395.8	383.4	377.6	374.8	375.2	376.9	380.8	383.8	388.0
45°	400.7	384.8	368.8	358.7	353.9	354.5	354.5	357.7	361.5	366.0	370.5
47.5°	371.9	355.8	342.7	334.2	331.7	331.1	333.1	337.2	342.7	348.2	354.5
50°	352.5	337.2	325.7	318.2	315.4	316.4	319.2	323.0	329.6	336.5	343.1
52.5°	332.8	318.9	308.3	301.2	299.3	301.1	303.9	310.0	315.8	323.2	331.2
55°	302.2	290.4	282.0	276.9	276.2	277.2	280.4	287.0	295.2	304.6	312.3
57.5°	271.7	261.9	254.2	250.7	251.0	252.0	257.1	264.9	273.8	283.8	293.6
60°	251.2	242.2	235.9	233.2	233.5	235.6	241.8	249.1	260.2	269.9	280.4
62.5°	231.8	223.8	217.8	215.3	214.9	219.5	225.4	233.0	244.2	254.9	266.2
65°	200.5	194.3	189.4	188.1	189.0	192.5	200.2	210.3	219.6	231.0	242.9
67.5°	170.0	164.9	161.6	162.2	163.5	168.5	175.0	183.6	194.2	206.1	217.8
70°	150.6	145.7	142.9	143.3	145.3	151.6	157.2	165.9	177.3	189.4	199.1
72.5°	130.6	127.4	124.9	126.4	128.4	132.8	139.6	148.4	158.5	169.7	180.0
75°	100.2	100.2	98.9	100.0	103.1	107.2	112.4	121.5	131.5	140.5	148.8
77.5°	74.4	73.7	74.5	75.8	77.6	82.5	88.5	95.0	102.5	111.6	118.4
80°	56.9	57.2	58.9	61.1	61.8	65.5	71.8	77.8	83.6	91.2	97.8
82.5°	42.7	43.1	44.0	46.6	47.3	51.5	55.5	61.3	66.7	71.8	77.3
85°	23.3	23.3	25.0	26.0	27.7	30.5	33.0	36.5	41.3	44.8	49.9
87.5°	9.9	10.1	11.3	12.0	13.0	14.5	15.2	18.4	19.6	21.0	23.6
90°	5.2	6.0	6.8	7.5	8.2	8.9	9.5	10.0	10.5	11.1	11.4
92.5°	13.2	14.0	14.5	15.0	15.5	16.0	16.3	16.7	16.9	17.3	17.5
95°	27.5	28.2	28.8	29.4	30.1	30.7	30.9	31.2	31.5	31.7	31.9
97.5°	44.9	45.7	46.4	47.1	47.8	48.6	48.9	49.2	49.6	49.8	50.0
100°	58.1	58.6	59.4	60.2	61.0	61.8	62.0	62.2	62.3	62.5	62.6
102.5°	72.1	72.5	73.2	73.9	74.6	75.4	75.6	75.9	76.2	76.4	76.6
105°	94.5	94.7	95.1	95.4	95.8	96.1	96.4	96.8	97.0	97.3	97.6
107.5°	118.4	118.5	118.6	118.6	118.7	118.7	119.0	119.2	119.5	119.8	119.8
110°	134.8	134.9	134.8	134.7	134.6	134.6	134.4	134.2	134.0	133.8	133.8



TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	151.1	151.1	150.9	150.7	150.5	150.4	150.3	150.3	150.3	150.3	150.3
115°	176.2	176.1	175.9	175.8	175.6	175.4	175.3	175.2	175.1	175.0	175.0
117.5°	200.2	200.2	200.1	199.9	199.8	199.7	199.4	199.1	198.8	198.5	198.2
120°	217.2	217.2	217.0	216.7	216.4	216.2	215.7	215.3	214.8	214.4	214.3
122.5°	232.8	232.8	232.7	232.6	232.5	232.4	232.0	231.8	231.4	231.1	230.8
125°	256.5	256.5	256.5	256.4	256.3	256.2	256.0	255.8	255.7	255.5	255.3
127.5°	279.7	279.8	279.6	279.5	279.4	279.2	279.0	278.8	278.7	278.5	278.3
130°	295.2	295.3	295.3	295.3	295.3	295.3	295.2	295.0	294.8	294.6	294.4
132.5°	310.8	310.9	310.8	310.7	310.7	310.6	310.4	310.2	310.0	309.9	309.7
135°	333.1	333.3	333.3	333.3	333.3	333.3	333.1	333.0	332.8	332.6	332.4
137.5°	354.7	354.9	355.1	355.3	355.3	355.5	355.3	355.0	354.8	354.5	354.5
140°	369.6	369.7	369.7	369.7	369.7	369.7	369.6	369.5	369.4	369.3	369.3
142.5°	383.5	383.6	383.5	383.4	383.3	383.3	383.3	383.3	383.3	383.3	383.2
145°	403.5	403.7	403.8	403.9	403.9	404.0	403.9	403.9	403.8	403.7	403.5
147.5°	422.8	423.0	422.9	422.8	422.8	422.8	422.7	422.6	422.5	422.5	422.4
150°	434.2	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4
152.5°	444.6	444.8	444.8	444.9	445.0	445.1	445.2	445.5	445.7	445.9	445.9
155°	460.7	460.6	460.5	460.4	460.3	460.2	460.6	460.9	461.3	461.6	461.6
157.5°	474.2	474.1	474.1	474.1	474.0	474.0	474.3	474.6	474.8	475.1	475.1
160°	483.0	482.9	482.8	482.7	482.6	482.5	482.8	483.0	483.3	483.6	483.5
162.5°	490.1	489.9	489.8	489.7	489.6	489.5	490.1	490.5	491.1	491.5	491.5
165°	500.3	500.2	500.0	499.8	499.6	499.4	500.0	500.5	501.1	501.6	501.7
167.5°	507.9	507.7	507.7	507.8	507.8	507.8	508.4	508.9	509.4	510.0	510.0
170°	512.2	512.0	512.1	512.2	512.3	512.4	512.9	513.4	514.0	514.5	514.4
172.5°	515.7	515.5	515.5	515.6	515.6	515.6	516.2	516.8	517.5	518.0	518.0
175°	519.9	519.6	519.5	519.4	519.3	519.2	519.9	520.5	521.1	521.7	521.7
177.5°	521.7	521.5	521.5	521.5	521.5	521.5	522.0	522.5	523.0	523.5	523.4
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	798.1	797.5	795.6	795.3	795.6	797.5	798.1	798.7	799.5	802.3	799.0
5°	737.3	735.6	734.5	738.3	734.5	735.6	737.3	739.3	742.8	743.2	746.6
7.5°	691.4	690.0	687.0	686.0	687.0	690.0	691.4	692.7	696.2	699.1	704.3
10°	662.0	660.6	657.8	657.1	657.8	660.6	662.0	665.5	668.9	672.7	676.2
12.5°	633.6	630.9	630.4	631.1	630.4	630.9	633.6	638.3	647.3	647.2	647.9
15°	596.0	594.7	590.8	591.9	590.8	594.7	596.0	600.6	604.8	609.9	615.1
17.5°	559.0	557.3	552.7	556.8	552.7	557.3	559.0	561.4	566.8	574.2	581.9
20°	535.7	532.9	530.5	530.1	530.5	532.9	535.7	538.1	544.0	550.3	556.2
22.5°	513.4	511.0	510.8	508.5	510.8	511.0	513.4	517.3	523.2	526.6	532.3
25°	485.7	483.3	482.6	480.9	482.6	483.3	485.7	488.5	492.3	495.1	501.3
27.5°	464.4	463.2	462.0	462.5	462.0	463.2	464.4	464.8	466.5	470.2	473.8
30°	451.4	451.0	450.3	450.3	450.3	451.0	451.4	450.3	452.1	453.8	456.6
32.5°	440.6	440.5	440.9	440.9	440.9	440.5	440.6	439.0	439.6	440.2	441.6
35°	425.3	426.4	427.1	426.1	427.1	426.4	425.3	424.0	422.9	420.5	421.2
37.5°	411.6	412.7	413.7	414.8	413.7	412.7	411.6	408.8	406.3	404.1	401.6
40°	401.1	403.5	404.2	405.9	404.2	403.5	401.1	398.0	395.2	392.7	389.9
42.5°	391.1	393.8	395.6	395.9	395.6	393.8	391.1	388.0	383.8	380.8	376.9
45°	375.8	378.5	380.9	380.9	380.9	378.5	375.8	370.5	366.0	361.5	357.7
47.5°	359.9	363.9	366.3	366.9	366.3	363.9	359.9	354.5	348.2	342.7	337.2
50°	349.0	353.9	356.3	358.0	356.3	353.9	349.0	343.1	336.5	329.6	323.0
52.5°	338.5	343.3	346.6	347.5	346.6	343.3	338.5	331.2	323.2	315.8	310.0
55°	320.2	327.2	331.0	332.3	331.0	327.2	320.2	312.3	304.6	295.2	287.0
57.5°	303.0	309.4	313.9	314.9	313.9	309.4	303.0	293.6	283.8	273.8	264.9
60°	289.7	296.7	302.2	303.3	302.2	296.7	289.7	280.4	269.9	260.2	249.1
62.5°	276.1	283.3	288.3	291.1	288.3	283.3	276.1	266.2	254.9	244.2	233.0
65°	252.6	259.8	264.7	265.7	264.7	259.8	252.6	242.9	231.0	219.6	210.3
67.5°	226.9	234.2	237.4	239.4	237.4	234.2	226.9	217.8	206.1	194.2	183.6
70°	208.8	214.7	218.2	220.0	218.2	214.7	208.8	199.1	189.4	177.3	165.9
72.5°	188.3	194.5	198.5	198.9	198.5	194.5	188.3	180.0	169.7	158.5	148.4
75°	156.9	162.4	164.4	164.4	164.4	162.4	156.9	148.8	140.5	131.5	121.5
77.5°	124.1	127.0	129.7	130.2	129.7	127.0	124.1	118.4	111.6	102.5	95.0
80°	103.1	104.8	106.8	106.8	106.8	104.8	103.1	97.8	91.2	83.6	77.8
82.5°	81.4	82.8	84.9	84.6	84.9	82.8	81.4	77.3	71.8	66.7	61.3
85°	49.2	52.4	52.1	51.4	52.1	52.4	49.2	49.9	44.8	41.3	36.5
87.5°	24.5	24.9	25.7	26.3	25.7	24.9	24.5	23.6	21.0	19.6	18.4
90°	11.6	11.8	11.9	12.1	11.9	11.8	11.6	11.4	11.1	10.5	10.0
92.5°	17.7	17.7	17.8	17.9	17.8	17.7	17.7	17.5	17.3	16.9	16.7
95°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.7	31.5	31.2
97.5°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.8	49.6	49.2
100°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.5	62.3	62.2
102.5°	76.6	76.7	76.8	76.9	76.8	76.7	76.6	76.6	76.4	76.2	75.9
105°	97.8	98.1	98.4	98.6	98.4	98.1	97.8	97.6	97.3	97.0	96.8
107.5°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.5	119.2
110°	134.1	134.4	134.6	134.9	134.6	134.4	134.1	133.8	133.8	134.0	134.2



TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	150.3	150.3	150.4	150.4	150.4	150.3	150.3	150.3	150.3	150.3	150.3
115°	174.9	174.8	174.7	174.6	174.7	174.8	174.9	175.0	175.0	175.1	175.2
117.5°	198.0	197.9	197.7	197.5	197.7	197.9	198.0	198.2	198.5	198.8	199.1
120°	214.5	214.6	214.8	215.0	214.8	214.6	214.5	214.3	214.4	214.8	215.3
122.5°	230.5	230.2	229.8	229.5	229.8	230.2	230.5	230.8	231.1	231.4	231.8
125°	255.1	254.9	254.8	254.6	254.8	254.9	255.1	255.3	255.5	255.7	255.8
127.5°	278.2	278.0	277.9	277.8	277.9	278.0	278.2	278.3	278.5	278.7	278.8
130°	294.0	293.6	293.3	292.9	293.3	293.6	294.0	294.4	294.6	294.8	295.0
132.5°	309.5	309.4	309.2	309.2	309.2	309.4	309.5	309.7	309.9	310.0	310.2
135°	332.2	331.9	331.6	331.4	331.6	331.9	332.2	332.4	332.6	332.8	333.0
137.5°	354.5	354.5	354.6	354.7	354.6	354.5	354.5	354.5	354.5	354.8	355.0
140°	369.2	369.1	369.0	368.9	369.0	369.1	369.2	369.3	369.3	369.4	369.5
142.5°	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.3	383.3	383.3
145°	403.2	403.0	402.7	402.4	402.7	403.0	403.2	403.5	403.7	403.8	403.9
147.5°	422.3	422.2	422.1	422.0	422.1	422.2	422.3	422.4	422.5	422.5	422.6
150°	434.3	434.2	434.1	434.0	434.1	434.2	434.3	434.4	434.4	434.4	434.4
152.5°	445.7	445.4	445.2	445.0	445.2	445.4	445.7	445.9	445.9	445.7	445.5
155°	461.3	460.9	460.6	460.2	460.6	460.9	461.3	461.6	461.6	461.3	460.9
157.5°	474.8	474.5	474.2	473.9	474.2	474.5	474.8	475.1	475.1	474.8	474.6
160°	483.0	482.6	482.1	481.6	482.1	482.6	483.0	483.5	483.6	483.3	483.0
162.5°	491.1	490.6	490.2	489.7	490.2	490.6	491.1	491.5	491.5	491.1	490.5
165°	501.3	501.0	500.6	500.2	500.6	501.0	501.3	501.7	501.6	501.1	500.5
167.5°	509.4	508.9	508.3	507.7	508.3	508.9	509.4	510.0	510.0	509.4	508.9
170°	513.8	513.2	512.6	511.9	512.6	513.2	513.8	514.4	514.5	514.0	513.4
172.5°	517.4	516.7	516.1	515.5	516.1	516.7	517.4	518.0	518.0	517.5	516.8
175°	521.1	520.5	519.9	519.2	519.9	520.5	521.1	521.7	521.7	521.1	520.5
177.5°	522.9	522.4	521.7	521.2	521.7	522.4	522.9	523.4	523.5	523.0	522.5
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	800.6	801.7	806.2	810.3	815.3	818.9	821.4	824.2	830.0	834.7	839.2
5°	750.1	751.8	760.9	767.1	777.8	787.2	794.5	802.5	811.9	824.7	836.5
7.5°	705.6	712.1	721.9	732.1	743.1	755.3	766.0	778.0	794.2	811.8	830.0
10°	680.4	687.7	698.0	709.9	720.2	734.5	747.7	761.9	780.2	801.8	823.3
12.5°	655.1	667.1	675.0	689.0	700.3	712.0	726.0	744.7	766.2	788.7	814.7
15°	623.5	630.1	645.3	653.0	668.9	687.0	700.8	719.6	740.4	770.3	799.3
17.5°	586.9	595.7	607.8	622.3	640.7	654.8	672.1	691.3	717.6	747.2	783.7
20°	563.1	570.4	585.3	601.3	620.7	635.6	654.0	672.7	699.8	731.4	769.5
22.5°	541.7	548.8	564.5	579.3	598.2	616.4	635.7	657.5	683.4	716.7	755.6
25°	508.6	518.0	531.9	547.2	565.2	586.0	606.8	626.2	654.0	689.0	730.7
27.5°	479.3	486.8	496.9	514.2	534.7	554.7	575.4	599.9	626.5	663.6	706.8
30°	460.4	467.3	477.4	493.4	512.5	534.0	555.4	579.1	606.8	643.5	687.7
32.5°	445.4	450.7	459.7	473.9	491.3	514.0	535.2	559.6	588.8	625.0	668.0
35°	423.3	427.8	431.2	444.8	460.4	481.3	502.7	528.8	556.9	591.2	634.2
37.5°	401.5	403.1	408.1	417.1	432.1	451.3	471.3	496.9	525.7	560.6	599.4
40°	388.3	389.0	392.1	400.4	413.6	431.6	451.0	476.4	503.7	536.7	575.2
42.5°	375.2	374.8	377.6	383.4	395.8	412.1	431.3	454.4	481.9	512.3	548.6
45°	354.5	354.5	353.9	358.7	368.8	384.8	400.7	422.9	445.9	475.6	506.2
47.5°	333.1	331.1	331.7	334.2	342.7	355.8	371.9	390.1	410.3	435.6	462.4
50°	319.2	316.4	315.4	318.2	325.7	337.2	352.5	368.5	387.5	409.7	432.7
52.5°	303.9	301.1	299.3	301.2	308.3	318.9	332.8	346.8	363.9	382.0	401.8
55°	280.4	277.2	276.2	276.9	282.0	290.4	302.2	315.0	327.9	342.8	356.7
57.5°	257.1	252.0	251.0	250.7	254.2	261.9	271.7	282.9	292.2	301.2	316.0
60°	241.8	235.6	233.5	233.2	235.9	242.2	251.2	262.3	268.9	275.1	287.9
62.5°	225.4	219.5	214.9	215.3	217.8	223.8	231.8	239.8	244.2	251.0	259.7
65°	200.2	192.5	189.0	188.1	189.4	194.3	200.5	205.7	210.6	213.4	221.7
67.5°	175.0	168.5	163.5	162.2	161.6	164.9	170.0	173.2	176.6	179.1	184.0
70°	157.2	151.6	145.3	143.3	142.9	145.7	150.6	151.0	155.8	156.9	162.0
72.5°	139.6	132.8	128.4	126.4	124.9	127.4	130.6	131.5	134.1	136.0	138.8
75°	112.4	107.2	103.1	100.0	98.9	100.2	100.2	102.0	103.7	104.8	107.9
77.5°	88.5	82.5	77.6	75.8	74.5	73.7	74.4	75.4	74.6	76.4	77.1
80°	71.8	65.5	61.8	61.1	58.9	57.2	56.9	58.0	56.5	57.2	59.3
82.5°	55.5	51.5	47.3	46.6	44.0	43.1	42.7	42.1	42.1	42.0	42.4
85°	33.0	30.5	27.7	26.0	25.0	23.3	23.3	22.6	21.8	21.1	21.5
87.5°	15.2	14.5	13.0	12.0	11.3	10.1	9.9	8.9	8.4	7.9	7.5
90°	9.5	8.9	8.2	7.5	6.8	6.0	5.2	4.2	3.2	2.2	1.2
92.5°	16.3	16.0	15.5	15.0	14.5	14.0	13.2	12.0	10.9	9.8	8.6
95°	30.9	30.7	30.1	29.4	28.8	28.2	27.5	26.7	25.9	25.1	24.3
97.5°	48.9	48.6	47.8	47.1	46.4	45.7	44.9	44.3	43.6	43.0	42.4
100°	62.0	61.8	61.0	60.2	59.4	58.6	58.1	57.6	57.2	56.9	56.5
102.5°	75.6	75.4	74.6	73.9	73.2	72.5	72.1	71.9	71.7	71.6	71.4
105°	96.4	96.1	95.8	95.4	95.1	94.7	94.5	94.4	94.3	94.3	94.2
107.5°	119.0	118.7	118.7	118.6	118.6	118.5	118.4	118.3	118.2	118.1	118.0
110°	134.4	134.6	134.6	134.7	134.8	134.9	134.8	134.6	134.5	134.3	134.1



TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	150.3	150.4	150.5	150.7	150.9	151.1	151.1	151.1	151.1	151.0	151.0
115°	175.3	175.4	175.6	175.8	175.9	176.1	176.2	176.2	176.2	176.2	176.2
117.5°	199.4	199.7	199.8	199.9	200.1	200.2	200.2	200.2	200.1	200.0	199.9
120°	215.7	216.2	216.4	216.7	217.0	217.2	217.2	216.9	216.5	216.2	215.8
122.5°	232.0	232.4	232.5	232.6	232.7	232.8	232.8	232.6	232.6	232.4	232.3
125°	256.0	256.2	256.3	256.4	256.5	256.5	256.5	256.5	256.5	256.5	256.5
127.5°	279.0	279.2	279.4	279.5	279.6	279.8	279.7	279.5	279.2	278.9	278.7
130°	295.2	295.3	295.3	295.3	295.3	295.3	295.2	295.0	294.7	294.4	294.2
132.5°	310.4	310.6	310.7	310.7	310.8	310.9	310.8	310.6	310.4	310.2	310.0
135°	333.1	333.3	333.3	333.3	333.3	333.3	333.1	332.5	332.0	331.4	330.9
137.5°	355.3	355.5	355.3	355.3	355.1	354.9	354.7	354.5	354.2	354.0	353.7
140°	369.6	369.7	369.7	369.7	369.7	369.7	369.6	369.4	369.3	369.1	368.9
142.5°	383.3	383.3	383.3	383.4	383.5	383.6	383.5	383.3	383.2	383.0	382.8
145°	403.9	404.0	403.9	403.9	403.8	403.7	403.5	403.1	402.8	402.4	402.1
147.5°	422.7	422.8	422.8	422.8	422.9	423.0	422.8	422.4	422.0	421.5	421.2
150°	434.4	434.4	434.4	434.4	434.4	434.4	434.2	433.8	433.5	433.1	432.7
152.5°	445.2	445.1	445.0	444.9	444.8	444.8	444.6	444.4	444.2	444.0	443.7
155°	460.6	460.2	460.3	460.4	460.5	460.6	460.7	460.7	460.7	460.7	460.7
157.5°	474.3	474.0	474.0	474.1	474.1	474.1	474.2	474.4	474.6	474.7	474.8
160°	482.8	482.5	482.6	482.7	482.8	482.9	483.0	483.0	483.1	483.2	483.3
162.5°	490.1	489.5	489.6	489.7	489.8	489.9	490.1	490.4	490.5	490.8	491.1
165°	500.0	499.4	499.6	499.8	500.0	500.2	500.3	500.6	500.9	501.1	501.4
167.5°	508.4	507.8	507.8	507.8	507.7	507.7	507.9	508.4	508.7	509.1	509.4
170°	512.9	512.4	512.3	512.2	512.1	512.0	512.2	512.6	513.1	513.5	514.0
172.5°	516.2	515.6	515.6	515.6	515.5	515.5	515.7	516.1	516.5	516.8	517.2
175°	519.9	519.2	519.3	519.4	519.5	519.6	519.9	520.3	520.8	521.2	521.7
177.5°	522.0	521.5	521.5	521.5	521.5	521.5	521.7	522.0	522.4	522.7	523.1
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	843.1	845.9	849.4	855.6	857.8	860.6	864.4	864.2	865.3	869.4	878.3
5°	846.2	856.9	867.4	879.9	893.0	901.7	913.6	920.8	928.1	937.5	953.4
7.5°	847.5	864.5	883.6	905.5	925.1	947.5	965.1	981.6	996.5	1016.3	1035.3
10°	845.5	868.4	893.0	920.8	950.3	975.3	997.8	1023.5	1045.4	1069.3	1090.8
12.5°	841.9	869.5	902.5	933.5	968.0	1005.0	1033.0	1059.0	1088.1	1115.6	1148.8
15°	833.7	871.6	910.1	951.0	997.1	1039.8	1080.4	1114.0	1145.3	1186.6	1229.9
17.5°	823.3	864.1	912.7	962.2	1010.5	1059.3	1109.5	1160.0	1199.4	1250.7	1284.7
20°	813.6	860.8	910.7	969.7	1018.0	1078.7	1128.6	1177.5	1231.6	1282.6	1323.3
22.5°	800.0	851.6	904.6	963.3	1026.8	1087.5	1145.3	1198.4	1252.5	1308.0	1357.1
25°	782.7	829.6	892.3	958.9	1022.1	1088.1	1154.3	1220.9	1279.2	1337.8	1383.7
27.5°	753.3	812.4	870.9	939.7	1009.9	1084.4	1155.3	1225.0	1286.0	1334.3	1362.7
30°	738.3	789.6	853.2	922.2	998.2	1078.3	1152.2	1220.6	1277.5	1316.0	1327.4
32.5°	716.1	769.1	831.3	902.8	983.2	1065.5	1142.5	1206.9	1254.5	1274.6	1260.8
35°	683.1	731.0	793.8	867.0	950.7	1038.4	1114.4	1168.9	1193.2	1174.1	1126.5
37.5°	643.5	691.1	754.1	826.0	912.6	1001.7	1070.5	1109.6	1101.6	1054.2	983.3
40°	615.8	660.2	720.2	798.0	882.3	971.8	1032.2	1053.4	1031.2	963.1	887.9
42.5°	585.1	628.3	688.6	763.6	852.8	935.4	988.0	989.8	952.6	871.3	795.7
45°	538.1	579.4	636.3	714.3	796.9	874.7	909.4	892.3	823.7	745.2	669.2
47.5°	491.9	527.6	583.7	657.8	736.2	801.6	818.9	788.3	715.1	638.9	568.5
50°	458.0	494.1	546.8	617.6	693.2	749.8	758.0	717.5	645.7	569.0	513.8
52.5°	425.5	461.3	512.1	577.6	646.8	697.9	698.1	651.1	579.6	511.3	459.9
55°	377.8	410.1	455.9	514.5	576.3	616.2	606.5	557.9	495.8	436.5	391.7
57.5°	331.9	360.0	402.2	451.1	505.5	538.4	522.3	475.5	420.1	369.8	335.8
60°	302.2	328.9	365.0	411.2	456.9	482.6	467.3	425.0	374.0	333.4	303.9
62.5°	273.3	295.9	330.6	370.6	413.0	432.1	418.5	376.7	332.7	296.0	272.0
65°	232.5	250.8	278.6	313.0	343.8	360.2	348.7	309.8	276.2	249.8	230.7
67.5°	194.3	208.7	229.7	257.3	283.5	292.3	281.9	254.8	226.3	205.2	191.7
70°	167.9	181.5	199.1	220.3	243.2	252.6	242.2	220.7	197.4	178.0	164.8
72.5°	144.9	155.3	170.3	188.4	206.3	215.7	208.6	187.9	168.3	153.8	142.6
75°	110.3	119.3	129.7	142.6	156.5	162.7	156.5	142.2	128.7	118.0	109.9
77.5°	80.3	85.1	93.1	102.7	111.4	116.2	110.8	101.1	92.8	85.5	81.5
80°	61.1	64.6	70.1	77.8	83.6	88.1	84.6	76.7	70.1	65.2	63.5
82.5°	44.4	46.7	50.4	56.1	60.0	62.3	60.8	55.0	52.3	48.0	46.3
85°	21.8	23.3	25.7	27.4	30.9	31.2	31.6	29.2	26.8	25.7	24.3
87.5°	7.9	8.4	9.5	10.4	11.8	12.1	12.0	12.2	11.2	11.1	10.1
90°	2.2	3.2	4.2	5.2	6.0	6.8	7.5	8.2	8.9	9.5	10.0
92.5°	9.8	10.9	12.0	13.2	14.0	14.5	15.0	15.5	16.0	16.3	16.7
95°	25.1	25.9	26.7	27.5	28.2	28.8	29.4	30.1	30.7	30.9	31.2
97.5°	43.0	43.6	44.3	44.9	45.7	46.4	47.1	47.8	48.6	48.9	49.2
100°	56.9	57.2	57.6	58.1	58.6	59.4	60.2	61.0	61.8	62.0	62.2
102.5°	71.6	71.7	71.9	72.1	72.5	73.2	73.9	74.6	75.4	75.6	75.9
105°	94.3	94.3	94.4	94.5	94.7	95.1	95.4	95.8	96.1	96.4	96.8
107.5°	118.1	118.2	118.3	118.4	118.5	118.6	118.6	118.7	118.7	119.0	119.2
110°	134.3	134.5	134.6	134.8	134.9	134.8	134.7	134.6	134.6	134.4	134.2





TEST NUMBER: P332746-940

CATALOG NUMBER: S124DIW-S575D470U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.0	151.1	151.1	151.1	151.1	150.9	150.7	150.5	150.4	150.3	150.3
115°	176.2	176.2	176.2	176.2	176.1	175.9	175.8	175.6	175.4	175.3	175.2
117.5°	200.0	200.1	200.2	200.2	200.2	200.1	199.9	199.8	199.7	199.4	199.1
120°	216.2	216.5	216.9	217.2	217.2	217.0	216.7	216.4	216.2	215.7	215.3
122.5°	232.4	232.6	232.6	232.8	232.8	232.7	232.6	232.5	232.4	232.0	231.8
125°	256.5	256.5	256.5	256.5	256.5	256.5	256.4	256.3	256.2	256.0	255.8
127.5°	278.9	279.2	279.5	279.7	279.8	279.6	279.5	279.4	279.2	279.0	278.8
130°	294.4	294.7	295.0	295.2	295.3	295.3	295.3	295.3	295.3	295.2	295.0
132.5°	310.2	310.4	310.6	310.8	310.9	310.8	310.7	310.7	310.6	310.4	310.2
135°	331.4	332.0	332.5	333.1	333.3	333.3	333.3	333.3	333.3	333.1	333.0
137.5°	354.0	354.2	354.5	354.7	354.9	355.1	355.3	355.3	355.5	355.3	355.0
140°	369.1	369.3	369.4	369.6	369.7	369.7	369.7	369.7	369.7	369.6	369.5
142.5°	383.0	383.2	383.3	383.5	383.6	383.5	383.4	383.3	383.3	383.3	383.3
145°	402.4	402.8	403.1	403.5	403.7	403.8	403.9	403.9	404.0	403.9	403.9
147.5°	421.5	422.0	422.4	422.8	423.0	422.9	422.8	422.8	422.8	422.7	422.6
150°	433.1	433.5	433.8	434.2	434.4	434.4	434.4	434.4	434.4	434.4	434.4
152.5°	444.0	444.2	444.4	444.6	444.8	444.8	444.9	445.0	445.1	445.2	445.5
155°	460.7	460.7	460.7	460.7	460.6	460.5	460.4	460.3	460.2	460.6	460.9
157.5°	474.7	474.6	474.4	474.2	474.1	474.1	474.1	474.0	474.0	474.3	474.6
160°	483.2	483.1	483.0	483.0	482.9	482.8	482.7	482.6	482.5	482.8	483.0
162.5°	490.8	490.5	490.4	490.1	489.9	489.8	489.7	489.6	489.5	490.1	490.5
165°	501.1	500.9	500.6	500.3	500.2	500.0	499.8	499.6	499.4	500.0	500.5
167.5°	509.1	508.7	508.4	507.9	507.7	507.7	507.8	507.8	507.8	508.4	508.9
170°	513.5	513.1	512.6	512.2	512.0	512.1	512.2	512.3	512.4	512.9	513.4
172.5°	516.8	516.5	516.1	515.7	515.5	515.5	515.6	515.6	515.6	516.2	516.8
175°	521.2	520.8	520.3	519.9	519.6	519.5	519.4	519.3	519.2	519.9	520.5
177.5°	522.7	522.4	522.0	521.7	521.5	521.5	521.5	521.5	521.5	522.0	522.5
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	882.8	883.3	885.8	887.8	888.3	891.1	891.4
5°	960.4	966.3	977.7	978.7	980.4	989.5	982.6
7.5°	1051.2	1066.2	1076.2	1085.0	1088.2	1092.2	1091.4
10°	1109.6	1131.8	1142.8	1160.6	1161.3	1165.7	1163.0
12.5°	1168.1	1193.9	1214.2	1217.5	1232.3	1234.6	1238.5
15°	1251.1	1278.5	1306.6	1316.7	1337.1	1342.0	1349.6
17.5°	1329.1	1357.1	1376.8	1402.8	1411.2	1422.5	1414.9
20°	1371.8	1402.4	1427.4	1447.8	1456.5	1462.8	1462.0
22.5°	1397.7	1428.4	1448.7	1464.2	1472.3	1475.0	1474.8
25°	1413.8	1431.6	1437.8	1443.7	1434.7	1431.6	1432.9
27.5°	1368.9	1364.2	1348.0	1326.6	1304.4	1286.7	1277.2
30°	1307.0	1279.9	1255.3	1212.3	1190.0	1176.9	1165.0
32.5°	1219.2	1176.3	1129.0	1089.6	1064.3	1044.7	1041.8
35°	1069.0	1004.4	946.5	898.2	873.3	852.1	847.2
37.5°	908.8	841.8	789.6	747.1	720.2	705.3	691.4
40°	802.5	744.9	693.6	657.5	637.0	626.2	617.6
42.5°	720.6	668.0	617.0	589.4	571.0	564.4	559.3
45°	607.5	558.6	523.2	502.4	491.6	480.5	475.3
47.5°	516.9	477.2	453.8	436.1	424.6	418.0	414.6
50°	465.6	433.0	412.1	398.7	388.3	383.0	380.2
52.5°	420.1	393.3	375.9	365.1	358.0	354.2	353.0
55°	361.9	341.4	330.3	320.9	315.8	312.3	310.9
57.5°	314.5	298.8	289.8	282.0	280.1	277.1	276.2
60°	283.5	271.3	263.7	258.5	256.7	253.2	254.0
62.5°	256.0	246.0	239.5	236.6	234.3	231.3	232.3
65°	216.5	209.2	205.7	203.0	200.2	198.5	199.8
67.5°	181.6	176.6	171.9	170.3	169.0	168.7	167.2
70°	158.9	154.7	150.6	149.5	149.5	148.1	147.8
72.5°	137.0	133.9	131.2	130.4	129.3	129.8	128.4
75°	105.8	103.3	102.4	101.3	100.9	100.9	100.0
77.5°	78.2	76.4	74.7	74.7	73.5	73.0	72.9
80°	59.3	58.7	57.2	57.2	56.5	56.9	56.2
82.5°	44.6	43.6	43.3	42.8	41.8	41.9	41.2
85°	23.9	22.9	22.6	21.5	20.8	21.5	20.8
87.5°	10.4	10.3	10.1	9.5	9.3	9.4	8.6
90°	10.5	11.1	11.4	11.6	11.8	11.9	12.1
92.5°	16.9	17.3	17.5	17.7	17.7	17.8	17.9
95°	31.5	31.7	31.9	31.9	31.9	31.9	31.9
97.5°	49.6	49.8	50.0	50.0	50.0	50.0	50.0
100°	62.3	62.5	62.6	62.6	62.6	62.6	62.6
102.5°	76.2	76.4	76.6	76.6	76.7	76.8	76.9
105°	97.0	97.3	97.6	97.8	98.1	98.4	98.6
107.5°	119.5	119.8	119.8	119.8	119.8	119.8	119.8
110°	134.0	133.8	133.8	134.1	134.4	134.6	134.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	150.3	150.3	150.3	150.3	150.3	150.4	150.4
115°	175.1	175.0	175.0	174.9	174.8	174.7	174.6
117.5°	198.8	198.5	198.2	198.0	197.9	197.7	197.5
120°	214.8	214.4	214.3	214.5	214.6	214.8	215.0
122.5°	231.4	231.1	230.8	230.5	230.2	229.8	229.5
125°	255.7	255.5	255.3	255.1	254.9	254.8	254.6
127.5°	278.7	278.5	278.3	278.2	278.0	277.9	277.8
130°	294.8	294.6	294.4	294.0	293.6	293.3	292.9
132.5°	310.0	309.9	309.7	309.5	309.4	309.2	309.2
135°	332.8	332.6	332.4	332.2	331.9	331.6	331.4
137.5°	354.8	354.5	354.5	354.5	354.5	354.6	354.7
140°	369.4	369.3	369.3	369.2	369.1	369.0	368.9
142.5°	383.3	383.3	383.2	383.2	383.2	383.2	383.2
145°	403.8	403.7	403.5	403.2	403.0	402.7	402.4
147.5°	422.5	422.5	422.4	422.3	422.2	422.1	422.0
150°	434.4	434.4	434.4	434.3	434.2	434.1	434.0
152.5°	445.7	445.9	445.9	445.7	445.4	445.2	445.0
155°	461.3	461.6	461.6	461.3	460.9	460.6	460.2
157.5°	474.8	475.1	475.1	474.8	474.5	474.2	473.9
160°	483.3	483.6	483.5	483.0	482.6	482.1	481.6
162.5°	491.1	491.5	491.5	491.1	490.6	490.2	489.7
165°	501.1	501.6	501.7	501.3	501.0	500.6	500.2
167.5°	509.4	510.0	510.0	509.4	508.9	508.3	507.7
170°	514.0	514.5	514.4	513.8	513.2	512.6	511.9
172.5°	517.5	518.0	518.0	517.4	516.7	516.1	515.5
175°	521.1	521.7	521.7	521.1	520.5	519.9	519.2
177.5°	523.0	523.5	523.4	522.9	522.4	521.7	521.2
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5

(END OF REPORT)