

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: P332746-830

Luminaire Tested: **S124DIW-S575D470U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332746-830  
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-S575D470U830-4F0-1E-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: 3976.3 lumens  
Efficiency: N/A  
Efficacy: 131.7 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

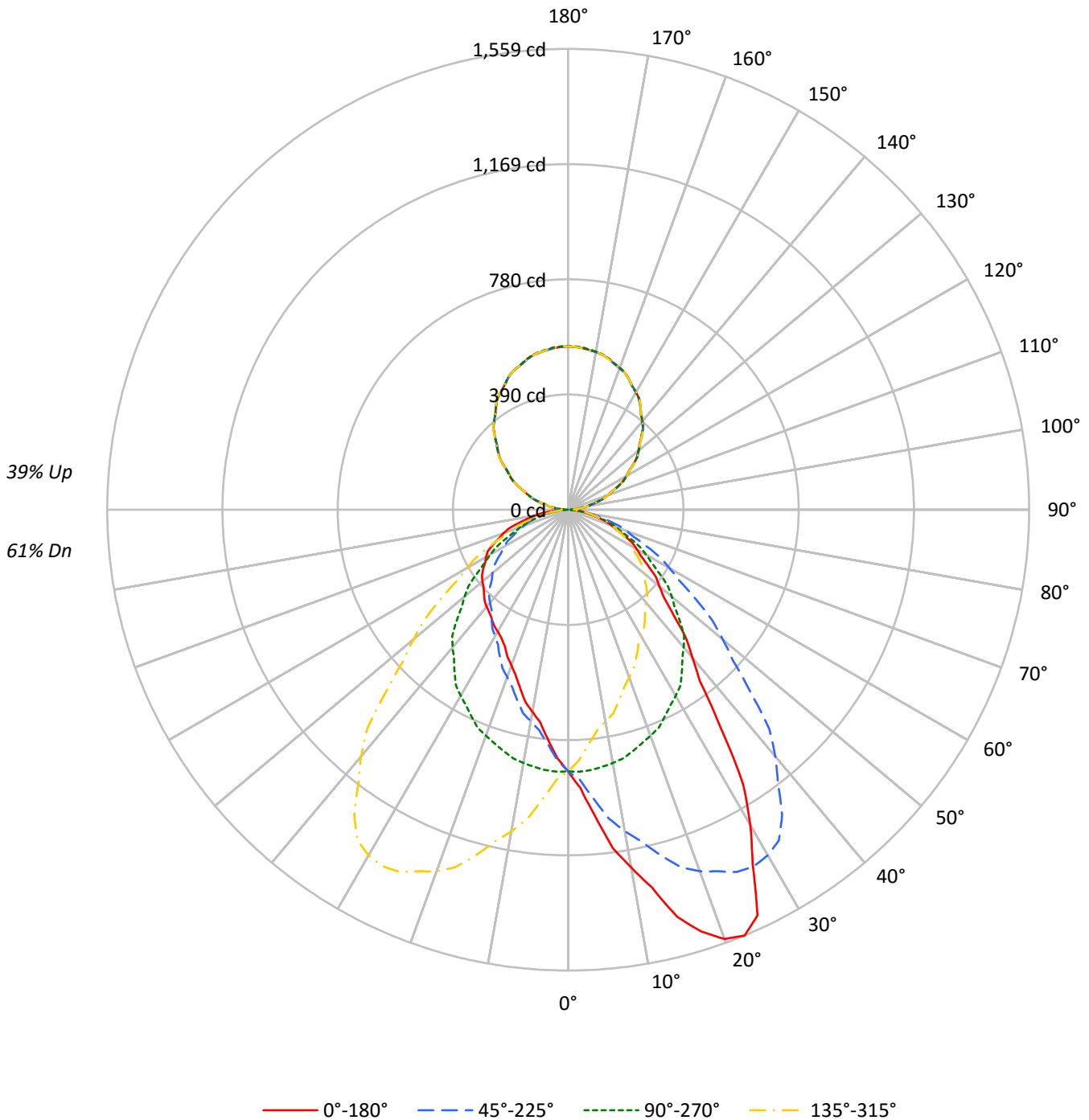
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	7146	7146	7146	7146
5°	8417	7165	6324	7165
10°	10077	7133	5694	7133
15°	11922	7061	5229	7061
20°	13277	6988	4814	6988
25°	13491	6879	4528	6879
30°	11479	6776	4437	6776
35°	8825	6606	4438	6606
40°	6880	6407	4521	6407
45°	5736	6109	4598	6109
50°	5048	5743	4752	5743
55°	4625	5306	4944	5306
60°	4334	4913	5176	4913
65°	4034	4476	5366	4476
70°	3687	4043	5488	4043
75°	3297	3556	5421	3556
80°	2762	2915	5249	2915
85°	2038	2103	5030	2103



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	2.2
10°-20°	265.8	6.7
20°-30°	421.5	10.6
30°-40°	469.1	11.8
40°-50°	427.0	10.7
50°-60°	349.0	8.8
60°-70°	249.1	6.3
70°-80°	137.2	3.5
80°-90°	39.1	1.0
90°-100°	36.4	0.9
100°-110°	107.9	2.7
110°-120°	183.1	4.6
120°-130°	241.5	6.1
130°-140°	271.2	6.8
140°-150°	266.5	6.7
150°-160°	224.1	5.6
160°-170°	149.1	3.8
170°-180°	52.2	1.3
0°-30°	773.6	19.5
0°-40°	1242.8	31.3
0°-60°	2018.8	50.8
0°-90°	2444.2	61.5
90°-120°	327.5	8.2
90°-150°	1106.7	27.8
90°-180°	1532.0	38.5
0°-180°	3976.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	885	885	885	885	885	
5°	1039	884	780	884	1039	106
15°	1426	845	626	845	1426	403
25°	1515	772	508	772	1515	668
35°	896	670	450	670	896	568
45°	502	535	403	535	502	396
55°	329	377	351	377	329	297
65°	211	234	281	234	211	209
75°	106	114	174	114	106	112
85°	22	23	54	23	22	27
90°	13	1	13	1	13	7
95°	34	26	34	26	34	35
105°	104	100	104	100	104	110
115°	184	186	184	186	184	182
125°	269	271	269	271	269	240
135°	350	350	350	350	350	270
145°	425	425	425	425	425	266
155°	486	487	486	487	486	224
165°	529	530	529	530	529	149
175°	549	551	549	551	549	52
180°	552	552	552	552	552	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	942.2	941.9	939.0	938.4	936.3	933.7	933.1	928.4	919.0	914.6	913.4
5°	1038.6	1045.9	1036.3	1034.5	1033.4	1021.3	1015.1	1007.8	990.9	981.0	973.3
7.5°	1153.6	1154.4	1150.3	1146.9	1137.6	1127.0	1111.2	1094.3	1074.2	1053.3	1037.6
10°	1229.3	1232.2	1227.5	1226.7	1208.0	1196.3	1172.8	1153.0	1130.2	1104.9	1081.9
12.5°	1309.1	1305.0	1302.5	1286.9	1283.4	1262.0	1234.7	1214.3	1179.2	1150.1	1119.4
15°	1426.5	1418.5	1413.3	1391.8	1381.1	1351.4	1322.4	1300.0	1254.2	1210.6	1177.5
17.5°	1495.5	1503.5	1491.7	1482.8	1455.3	1434.5	1404.9	1357.9	1322.0	1267.8	1226.2
20°	1545.4	1546.1	1539.5	1530.3	1508.7	1482.3	1450.0	1398.7	1355.8	1301.8	1244.6
22.5°	1558.9	1559.1	1556.2	1547.7	1531.3	1509.9	1477.3	1434.5	1382.5	1323.9	1266.7
25°	1514.6	1513.2	1516.5	1526.0	1519.8	1513.2	1494.4	1462.5	1414.1	1352.1	1290.5
27.5°	1350.0	1360.1	1378.8	1402.2	1424.8	1442.0	1446.9	1440.4	1410.3	1359.3	1294.9
30°	1231.4	1244.0	1257.8	1281.4	1326.8	1352.8	1381.5	1403.1	1391.0	1350.3	1290.2
32.5°	1101.2	1104.3	1124.9	1151.7	1193.4	1243.4	1288.7	1332.7	1347.3	1326.0	1275.7
35°	895.5	900.7	923.0	949.4	1000.4	1061.7	1129.9	1190.7	1241.0	1261.2	1235.5
37.5°	730.8	745.6	761.3	789.7	834.6	889.8	960.6	1039.3	1114.3	1164.4	1172.9
40°	652.8	661.9	673.4	694.9	733.1	787.4	848.2	938.5	1018.0	1090.0	1113.4
42.5°	591.2	596.5	603.5	623.0	652.1	706.1	761.7	841.0	921.0	1006.9	1046.2
45°	502.4	507.9	519.6	531.0	553.0	590.4	642.2	707.4	787.7	870.6	943.2
47.5°	438.3	441.9	448.8	461.0	479.7	504.4	546.4	600.9	675.3	755.8	833.2
50°	401.9	404.8	410.4	421.4	435.6	457.7	492.1	543.1	601.4	682.5	758.4
52.5°	373.2	374.4	378.4	385.9	397.3	415.8	444.0	486.2	540.5	612.7	688.2
55°	328.6	330.1	333.8	339.2	349.1	360.9	382.5	414.1	461.4	524.1	589.7
57.5°	291.9	292.9	296.1	298.1	306.3	315.8	332.4	355.0	390.9	444.0	502.7
60°	268.4	267.7	271.4	273.2	278.7	286.8	299.6	321.2	352.4	395.3	449.2
62.5°	245.5	244.5	247.6	250.1	253.2	260.0	270.6	287.5	312.8	351.7	398.2
65°	211.2	209.8	211.6	214.5	217.4	221.1	228.8	243.8	264.0	291.9	327.4
67.5°	176.7	178.3	178.6	180.0	181.7	186.7	192.0	202.6	216.9	239.2	269.3
70°	156.2	156.6	158.1	158.1	159.2	163.5	168.0	174.2	188.1	208.7	233.3
72.5°	135.7	137.2	136.7	137.8	138.6	141.6	144.8	150.7	162.6	177.9	198.6
75°	105.7	106.7	106.7	107.1	108.2	109.2	111.9	116.2	124.7	136.0	150.3
77.5°	77.0	77.2	77.7	79.0	79.0	80.8	82.7	86.1	90.4	98.1	106.9
80°	59.4	60.1	59.8	60.5	60.5	62.0	62.7	67.1	68.9	74.1	81.1
82.5°	43.5	44.3	44.2	45.2	45.8	46.1	47.1	48.9	50.7	55.3	58.2
85°	22.0	22.7	22.0	22.7	23.8	24.2	25.3	25.6	27.1	28.3	30.8
87.5°	9.0	9.9	9.8	10.1	10.7	10.8	11.0	10.7	11.7	11.9	12.9
90°	12.8	12.6	12.4	12.3	12.1	11.7	11.1	10.6	10.0	9.4	8.7
92.5°	18.9	18.9	18.8	18.7	18.5	18.3	17.9	17.6	17.2	16.9	16.4
95°	33.7	33.7	33.7	33.7	33.7	33.6	33.3	33.0	32.7	32.4	31.8
97.5°	52.9	52.9	52.9	52.9	52.9	52.7	52.4	52.0	51.7	51.4	50.5
100°	66.2	66.2	66.2	66.2	66.2	66.1	65.9	65.7	65.5	65.3	64.5
102.5°	81.2	81.2	81.1	81.0	81.0	80.8	80.5	80.2	79.9	79.7	78.9
105°	104.2	104.0	103.7	103.4	103.1	102.8	102.5	102.3	101.9	101.6	101.2
107.5°	126.6	126.6	126.7	126.7	126.7	126.6	126.3	126.0	125.7	125.5	125.5
110°	142.6	142.3	142.0	141.8	141.5	141.5	141.7	141.9	142.0	142.2	142.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	159.0	159.0	158.9	158.9	158.8	158.8	158.8	158.9	158.9	159.0	159.1
115°	184.5	184.6	184.7	184.8	184.9	185.0	185.1	185.2	185.3	185.4	185.6
117.5°	208.8	209.0	209.2	209.3	209.5	209.8	210.1	210.5	210.8	211.0	211.2
120°	227.2	227.1	226.9	226.7	226.5	226.6	227.1	227.5	228.0	228.5	228.8
122.5°	242.6	242.9	243.3	243.6	243.9	244.3	244.6	245.0	245.2	245.6	245.7
125°	269.1	269.3	269.5	269.7	269.8	270.0	270.2	270.4	270.6	270.8	270.9
127.5°	293.6	293.8	293.9	294.1	294.2	294.4	294.5	294.7	294.9	295.1	295.3
130°	309.6	310.0	310.4	310.8	311.1	311.4	311.6	311.8	312.0	312.2	312.2
132.5°	326.8	326.9	327.1	327.2	327.3	327.5	327.7	327.9	328.1	328.3	328.4
135°	350.2	350.5	350.8	351.1	351.4	351.6	351.8	351.9	352.1	352.3	352.3
137.5°	374.9	374.8	374.8	374.8	374.7	374.8	375.0	375.2	375.5	375.8	375.6
140°	389.9	390.0	390.1	390.2	390.3	390.4	390.5	390.6	390.7	390.8	390.8
142.5°	405.0	405.0	405.0	405.0	405.0	405.1	405.1	405.1	405.1	405.1	405.2
145°	425.4	425.7	425.9	426.2	426.5	426.7	426.8	426.9	427.0	427.1	427.0
147.5°	446.1	446.2	446.3	446.4	446.5	446.6	446.6	446.7	446.8	446.9	447.0
150°	458.7	458.8	458.9	459.0	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	470.3	470.6	470.8	471.1	471.3	471.4	471.1	470.9	470.6	470.4	470.3
155°	486.4	486.8	487.2	487.6	488.0	488.0	487.6	487.2	486.8	486.4	486.5
157.5°	500.9	501.2	501.5	501.9	502.2	502.2	501.9	501.6	501.3	501.1	501.1
160°	509.1	509.5	510.1	510.6	511.0	511.1	510.9	510.6	510.3	510.0	510.1
162.5°	517.6	518.1	518.6	519.1	519.5	519.5	519.1	518.5	518.0	517.5	517.6
165°	528.8	529.1	529.5	529.9	530.3	530.2	529.6	529.0	528.5	527.9	528.1
167.5°	536.7	537.2	537.9	538.5	539.0	539.0	538.5	537.9	537.3	536.8	536.8
170°	541.1	541.8	542.4	543.1	543.8	543.8	543.3	542.7	542.2	541.6	541.5
172.5°	544.9	545.5	546.2	546.9	547.5	547.5	547.0	546.3	545.6	545.0	545.0
175°	548.8	549.5	550.2	550.8	551.5	551.5	550.8	550.2	549.5	548.8	548.9
177.5°	550.9	551.5	552.1	552.7	553.3	553.4	552.8	552.3	551.8	551.2	551.2
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	913.7	909.6	906.7	904.4	897.9	894.1	891.2	887.0	882.3	877.3	871.2
5°	965.6	953.1	944.0	930.0	916.8	905.8	894.5	884.2	871.7	858.2	848.2
7.5°	1020.1	1001.5	977.8	957.2	934.0	913.8	895.8	877.3	858.1	839.4	822.4
10°	1054.7	1030.9	1004.5	973.3	944.0	917.9	893.7	870.2	847.5	824.7	805.3
12.5°	1091.9	1062.2	1023.2	986.7	953.9	919.1	889.9	861.1	833.7	809.8	787.1
15°	1142.0	1099.1	1054.0	1005.2	962.0	921.2	881.3	844.9	814.2	782.6	760.6
17.5°	1172.7	1119.6	1068.1	1017.1	964.7	913.3	870.2	828.4	789.8	758.5	730.8
20°	1193.0	1140.2	1076.0	1025.0	962.6	909.8	860.0	813.4	773.1	739.7	711.1
22.5°	1210.6	1149.5	1085.3	1018.2	956.2	900.1	845.6	798.7	757.5	722.4	694.9
25°	1220.1	1150.1	1080.3	1013.6	943.2	876.8	827.4	772.3	728.3	691.3	661.9
27.5°	1221.2	1146.2	1067.4	993.3	920.6	858.8	796.3	747.1	701.4	662.2	634.0
30°	1217.9	1139.8	1055.1	974.8	901.8	834.6	780.4	726.9	680.2	641.4	612.1
32.5°	1207.6	1126.2	1039.2	954.2	878.6	812.9	757.0	706.1	660.6	622.4	591.5
35°	1177.9	1097.6	1004.8	916.4	839.1	772.7	722.1	670.3	624.9	588.6	558.9
37.5°	1131.5	1058.9	964.6	873.1	797.1	730.5	680.2	633.6	592.6	555.6	525.2
40°	1091.0	1027.2	932.6	843.5	761.3	697.9	650.9	608.0	567.3	532.4	503.5
42.5°	1044.3	988.7	901.4	807.1	727.8	664.1	618.4	579.9	541.5	509.3	480.3
45°	961.2	924.5	842.4	755.1	672.6	612.5	568.8	535.1	502.8	471.3	447.0
47.5°	865.5	847.3	778.2	695.3	617.0	557.7	519.9	488.7	460.4	433.7	412.4
50°	801.3	792.5	732.7	652.8	578.0	522.3	484.1	457.3	433.1	409.6	389.5
52.5°	737.9	737.6	683.7	610.5	541.3	487.6	449.8	424.7	403.8	384.7	366.6
55°	641.0	651.3	609.2	543.8	481.9	433.5	399.4	377.0	362.3	346.6	333.0
57.5°	552.0	569.1	534.3	476.8	425.1	380.5	350.8	334.0	318.4	308.9	299.0
60°	494.0	510.1	483.0	434.6	385.8	347.6	319.4	304.3	290.8	284.2	277.2
62.5°	442.3	456.8	436.6	391.7	349.4	312.7	288.9	274.5	265.3	258.1	253.4
65°	368.5	380.7	363.4	330.8	294.5	265.1	245.7	234.3	225.6	222.6	217.4
67.5°	297.9	309.0	299.6	271.9	242.8	220.6	205.4	194.4	189.3	186.6	183.0
70°	256.0	267.0	257.0	232.9	210.5	191.8	177.5	171.3	165.8	164.7	159.6
72.5°	220.5	228.0	218.0	199.2	180.0	164.2	153.2	146.7	143.7	141.8	139.0
75°	165.4	172.0	165.4	150.7	137.1	126.1	116.6	114.0	110.7	109.6	107.8
77.5°	117.1	122.8	117.7	108.6	98.4	89.9	84.8	81.5	80.8	78.9	79.7
80°	89.4	93.1	88.4	82.2	74.1	68.2	64.6	62.7	60.5	59.8	61.3
82.5°	64.3	65.9	63.4	59.3	53.3	49.4	46.9	44.8	44.4	44.5	44.5
85°	33.4	33.0	32.6	28.9	27.1	24.6	23.1	22.7	22.3	23.1	23.8
87.5°	12.7	12.8	12.4	11.0	10.0	8.9	8.4	7.9	8.4	8.9	9.4
90°	7.9	7.2	6.3	5.5	4.4	3.4	2.4	1.3	2.4	3.4	4.4
92.5°	15.8	15.4	14.8	13.9	12.7	11.5	10.4	9.1	10.4	11.5	12.7
95°	31.1	30.4	29.8	29.0	28.2	27.3	26.5	25.6	26.5	27.3	28.2
97.5°	49.8	49.0	48.3	47.5	46.8	46.1	45.4	44.8	45.4	46.1	46.8
100°	63.6	62.8	61.9	61.4	60.9	60.5	60.1	59.8	60.1	60.5	60.9
102.5°	78.1	77.4	76.6	76.2	76.0	75.8	75.7	75.5	75.7	75.8	76.0
105°	100.9	100.5	100.1	99.9	99.8	99.7	99.6	99.5	99.6	99.7	99.8
107.5°	125.4	125.4	125.3	125.2	125.1	125.0	124.8	124.7	124.8	125.0	125.1
110°	142.4	142.5	142.6	142.5	142.3	142.1	141.9	141.8	141.9	142.1	142.3





TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.3	159.5	159.7	159.8	159.7	159.7	159.6	159.6	159.6	159.7	159.7
115°	185.8	186.0	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2
117.5°	211.3	211.5	211.6	211.6	211.6	211.5	211.4	211.3	211.4	211.5	211.6
120°	229.0	229.3	229.6	229.6	229.2	228.8	228.5	228.1	228.5	228.8	229.2
122.5°	245.8	246.0	246.1	246.1	245.9	245.8	245.6	245.5	245.6	245.8	245.9
125°	271.0	271.1	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
127.5°	295.4	295.6	295.8	295.7	295.4	295.1	294.8	294.5	294.8	295.1	295.4
130°	312.2	312.2	312.2	312.1	311.8	311.5	311.2	310.9	311.2	311.5	311.8
132.5°	328.4	328.5	328.6	328.5	328.3	328.1	327.9	327.6	327.9	328.1	328.3
135°	352.3	352.3	352.3	352.0	351.5	350.9	350.3	349.8	350.3	350.9	351.5
137.5°	375.5	375.3	375.1	374.9	374.7	374.4	374.2	373.9	374.2	374.4	374.7
140°	390.8	390.8	390.8	390.7	390.5	390.3	390.1	389.9	390.1	390.3	390.5
142.5°	405.3	405.4	405.5	405.4	405.2	405.0	404.8	404.6	404.8	405.0	405.2
145°	426.9	426.8	426.7	426.5	426.1	425.7	425.4	425.0	425.4	425.7	426.1
147.5°	447.0	447.0	447.1	447.0	446.5	446.0	445.5	445.2	445.5	446.0	446.5
150°	459.1	459.1	459.1	458.9	458.5	458.2	457.8	457.4	457.8	458.2	458.5
152.5°	470.2	470.1	470.1	470.0	469.8	469.5	469.3	469.0	469.3	469.5	469.8
155°	486.6	486.7	486.8	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9
157.5°	501.1	501.1	501.1	501.2	501.4	501.6	501.7	501.9	501.7	501.6	501.4
160°	510.2	510.3	510.4	510.5	510.6	510.7	510.8	510.9	510.8	510.7	510.6
162.5°	517.6	517.7	517.8	518.0	518.3	518.5	518.8	519.1	518.8	518.5	518.3
165°	528.3	528.5	528.7	528.9	529.1	529.4	529.7	530.0	529.7	529.4	529.1
167.5°	536.8	536.7	536.7	536.9	537.3	537.7	538.1	538.5	538.1	537.7	537.3
170°	541.4	541.3	541.2	541.4	541.9	542.3	542.8	543.3	542.8	542.3	541.9
172.5°	545.0	544.9	544.9	545.1	545.5	545.9	546.3	546.7	546.3	545.9	545.5
175°	549.0	549.1	549.2	549.5	550.0	550.4	550.9	551.4	550.9	550.4	550.0
177.5°	551.2	551.2	551.2	551.4	551.8	552.1	552.5	552.9	552.5	552.1	551.8
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	868.3	865.6	861.8	856.5	852.2	847.4	846.2	844.5	848.0	845.1	844.2
5°	839.8	832.1	822.2	810.9	804.3	794.7	792.9	789.2	785.5	785.1	781.5
7.5°	809.6	798.3	785.4	773.8	763.1	752.7	745.8	744.4	739.0	735.8	732.2
10°	790.3	776.4	761.3	750.4	737.8	726.9	719.2	714.7	711.1	707.0	703.4
12.5°	767.4	752.6	740.2	728.3	713.5	705.1	692.5	684.9	684.1	684.2	674.7
15°	740.7	726.1	707.0	690.2	682.1	666.0	659.0	650.2	644.7	639.2	634.8
17.5°	710.4	692.1	677.2	657.8	642.4	629.6	620.4	615.1	606.9	599.1	593.4
20°	691.3	671.8	656.1	635.6	618.7	602.9	595.2	587.9	581.6	575.0	568.8
22.5°	671.9	651.6	632.4	612.4	596.6	580.0	572.6	562.6	556.7	553.0	546.8
25°	641.4	619.4	597.4	578.3	562.2	547.5	537.6	529.9	523.3	520.4	516.3
27.5°	608.2	586.4	565.1	543.5	525.2	514.5	506.6	500.8	497.0	493.1	491.3
30°	587.1	564.4	541.7	521.5	504.6	494.0	486.6	482.6	479.7	477.9	476.0
32.5°	565.7	543.3	519.3	501.0	485.9	476.4	470.8	466.7	465.3	464.7	464.0
35°	531.4	508.7	486.6	470.1	455.8	452.1	447.4	445.2	444.5	447.0	448.2
37.5°	498.1	477.0	456.8	440.8	431.4	426.0	424.4	424.5	427.2	429.4	432.1
40°	476.7	456.2	437.2	423.2	414.4	411.1	410.4	412.2	415.1	417.7	420.7
42.5°	455.9	435.6	418.4	405.3	399.2	396.2	396.6	398.4	402.6	405.7	410.1
45°	423.6	406.7	389.8	379.2	374.1	374.8	374.8	378.1	382.1	386.9	391.6
47.5°	393.1	376.1	362.2	353.3	350.6	350.0	352.0	356.4	362.2	368.1	374.8
50°	372.6	356.5	344.3	336.3	333.4	334.4	337.4	341.4	348.4	355.7	362.7
52.5°	351.8	337.1	325.8	318.4	316.3	318.3	321.2	327.6	333.8	341.7	350.1
55°	319.4	307.0	298.1	292.7	291.9	293.0	296.3	303.3	312.1	322.0	330.1
57.5°	287.2	276.8	268.7	264.9	265.3	266.4	271.7	280.0	289.5	300.0	310.4
60°	265.5	256.0	249.4	246.5	246.9	249.0	255.6	263.3	275.0	285.3	296.3
62.5°	245.0	236.6	230.3	227.6	227.2	232.0	238.3	246.3	258.1	269.5	281.3
65°	212.0	205.4	200.2	198.8	199.8	203.5	211.6	222.3	232.1	244.2	256.7
67.5°	179.6	174.3	170.8	171.4	172.8	178.1	184.9	194.1	205.3	217.8	230.2
70°	159.2	154.0	151.1	151.5	153.6	160.2	166.2	175.3	187.4	200.2	210.5
72.5°	138.1	134.7	132.1	133.6	135.7	140.3	147.6	156.8	167.5	179.4	190.3
75°	105.9	105.9	104.5	105.7	109.0	113.3	118.9	128.4	139.0	148.5	157.3
77.5°	78.6	77.9	78.8	80.1	82.0	87.2	93.5	100.4	108.3	117.9	125.2
80°	60.1	60.5	62.3	64.6	65.3	69.3	75.9	82.2	88.4	96.4	103.4
82.5°	45.1	45.5	46.5	49.3	50.0	54.4	58.6	64.8	70.5	75.9	81.7
85°	24.6	24.6	26.4	27.5	29.3	32.2	34.9	38.5	43.6	47.3	52.8
87.5°	10.5	10.7	12.0	12.7	13.8	15.4	16.1	19.4	20.7	22.2	25.0
90°	5.5	6.3	7.2	7.9	8.7	9.4	10.0	10.6	11.1	11.7	12.1
92.5°	13.9	14.8	15.4	15.8	16.4	16.9	17.2	17.6	17.9	18.3	18.5
95°	29.0	29.8	30.4	31.1	31.8	32.4	32.7	33.0	33.3	33.6	33.7
97.5°	47.5	48.3	49.0	49.8	50.5	51.4	51.7	52.0	52.4	52.7	52.9
100°	61.4	61.9	62.8	63.6	64.5	65.3	65.5	65.7	65.9	66.1	66.2
102.5°	76.2	76.6	77.4	78.1	78.9	79.7	79.9	80.2	80.5	80.8	81.0
105°	99.9	100.1	100.5	100.9	101.2	101.6	101.9	102.3	102.5	102.8	103.1
107.5°	125.2	125.3	125.4	125.4	125.5	125.5	125.7	126.0	126.3	126.6	126.7
110°	142.5	142.6	142.5	142.4	142.3	142.2	142.0	141.9	141.7	141.5	141.5



TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	159.8	159.7	159.5	159.3	159.1	159.0	158.9	158.9	158.8	158.8	158.8
115°	186.2	186.2	186.0	185.8	185.6	185.4	185.3	185.2	185.1	185.0	184.9
117.5°	211.6	211.6	211.5	211.3	211.2	211.0	210.8	210.5	210.1	209.8	209.5
120°	229.6	229.6	229.3	229.0	228.8	228.5	228.0	227.5	227.1	226.6	226.5
122.5°	246.1	246.1	246.0	245.8	245.7	245.6	245.2	245.0	244.6	244.3	243.9
125°	271.2	271.2	271.1	271.0	270.9	270.8	270.6	270.4	270.2	270.0	269.8
127.5°	295.7	295.8	295.6	295.4	295.3	295.1	294.9	294.7	294.5	294.4	294.2
130°	312.1	312.2	312.2	312.2	312.2	312.2	312.0	311.8	311.6	311.4	311.1
132.5°	328.5	328.6	328.5	328.4	328.4	328.3	328.1	327.9	327.7	327.5	327.3
135°	352.0	352.3	352.3	352.3	352.3	352.3	352.1	351.9	351.8	351.6	351.4
137.5°	374.9	375.1	375.3	375.5	375.6	375.8	375.5	375.2	375.0	374.8	374.7
140°	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.6	390.5	390.4	390.3
142.5°	405.4	405.5	405.4	405.3	405.2	405.1	405.1	405.1	405.1	405.1	405.0
145°	426.5	426.7	426.8	426.9	427.0	427.1	427.0	426.9	426.8	426.7	426.5
147.5°	447.0	447.1	447.0	447.0	447.0	446.9	446.8	446.7	446.6	446.6	446.5
150°	458.9	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	470.0	470.1	470.1	470.2	470.3	470.4	470.6	470.9	471.1	471.4	471.3
155°	486.9	486.8	486.7	486.6	486.5	486.4	486.8	487.2	487.6	488.0	488.0
157.5°	501.2	501.1	501.1	501.1	501.1	501.1	501.3	501.6	501.9	502.2	502.2
160°	510.5	510.4	510.3	510.2	510.1	510.0	510.3	510.6	510.9	511.1	511.0
162.5°	518.0	517.8	517.7	517.6	517.6	517.5	518.0	518.5	519.1	519.5	519.5
165°	528.9	528.7	528.5	528.3	528.1	527.9	528.5	529.0	529.6	530.2	530.3
167.5°	536.9	536.7	536.7	536.8	536.8	536.8	537.3	537.9	538.5	539.0	539.0
170°	541.4	541.2	541.3	541.4	541.5	541.6	542.2	542.7	543.3	543.8	543.8
172.5°	545.1	544.9	544.9	545.0	545.0	545.0	545.6	546.3	547.0	547.5	547.5
175°	549.5	549.2	549.1	549.0	548.9	548.8	549.5	550.2	550.8	551.5	551.5
177.5°	551.4	551.2	551.2	551.2	551.2	551.2	551.8	552.3	552.8	553.4	553.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	843.6	843.0	840.9	840.7	840.9	843.0	843.6	844.2	845.1	848.0	844.5
5°	779.3	777.5	776.4	780.4	776.4	777.5	779.3	781.5	785.1	785.5	789.2
7.5°	730.8	729.3	726.1	725.1	726.1	729.3	730.8	732.2	735.8	739.0	744.4
10°	699.7	698.2	695.3	694.6	695.3	698.2	699.7	703.4	707.0	711.1	714.7
12.5°	669.8	666.8	666.3	667.0	666.3	666.8	669.8	674.7	684.2	684.1	684.9
15°	630.0	628.6	624.5	625.7	624.5	628.6	630.0	634.8	639.2	644.7	650.2
17.5°	590.9	589.1	584.2	588.5	584.2	589.1	590.9	593.4	599.1	606.9	615.1
20°	566.2	563.3	560.7	560.3	560.7	563.3	566.2	568.8	575.0	581.6	587.9
22.5°	542.7	540.1	539.9	537.4	539.9	540.1	542.7	546.8	553.0	556.7	562.6
25°	513.4	510.9	510.1	508.3	510.1	510.9	513.4	516.3	520.4	523.3	529.9
27.5°	490.9	489.7	488.3	488.9	488.3	489.7	490.9	491.3	493.1	497.0	500.8
30°	477.1	476.7	476.0	476.0	476.0	476.7	477.1	476.0	477.9	479.7	482.6
32.5°	465.7	465.6	466.0	466.0	466.0	465.6	465.7	464.0	464.7	465.3	466.7
35°	449.6	450.7	451.5	450.3	451.5	450.7	449.6	448.2	447.0	444.5	445.2
37.5°	435.1	436.2	437.2	438.5	437.2	436.2	435.1	432.1	429.4	427.2	424.5
40°	424.0	426.5	427.3	429.0	427.3	426.5	424.0	420.7	417.7	415.1	412.2
42.5°	413.4	416.2	418.1	418.5	418.1	416.2	413.4	410.1	405.7	402.6	398.4
45°	397.2	400.1	402.7	402.7	402.7	400.1	397.2	391.6	386.9	382.1	378.1
47.5°	380.4	384.7	387.2	387.9	387.2	384.7	380.4	374.8	368.1	362.2	356.4
50°	368.9	374.1	376.6	378.4	376.6	374.1	368.9	362.7	355.7	348.4	341.4
52.5°	357.8	362.9	366.4	367.3	366.4	362.9	357.8	350.1	341.7	333.8	327.6
55°	338.5	345.8	349.9	351.3	349.9	345.8	338.5	330.1	322.0	312.1	303.3
57.5°	320.3	327.1	331.8	332.8	331.8	327.1	320.3	310.4	300.0	289.5	280.0
60°	306.2	313.6	319.4	320.6	319.4	313.6	306.2	296.3	285.3	275.0	263.3
62.5°	291.8	299.4	304.7	307.6	304.7	299.4	291.8	281.3	269.5	258.1	246.3
65°	267.0	274.7	279.8	280.9	279.8	274.7	267.0	256.7	244.2	232.1	222.3
67.5°	239.9	247.5	250.9	253.1	250.9	247.5	239.9	230.2	217.8	205.3	194.1
70°	220.7	227.0	230.6	232.5	230.6	227.0	220.7	210.5	200.2	187.4	175.3
72.5°	199.1	205.6	209.8	210.2	209.8	205.6	199.1	190.3	179.4	167.5	156.8
75°	165.8	171.6	173.8	173.8	173.8	171.6	165.8	157.3	148.5	139.0	128.4
77.5°	131.2	134.2	137.0	137.6	137.0	134.2	131.2	125.2	117.9	108.3	100.4
80°	109.0	110.7	112.9	112.9	112.9	110.7	109.0	103.4	96.4	88.4	82.2
82.5°	86.1	87.6	89.7	89.4	89.7	87.6	86.1	81.7	75.9	70.5	64.8
85°	52.0	55.4	55.0	54.3	55.0	55.4	52.0	52.8	47.3	43.6	38.5
87.5°	25.9	26.3	27.1	27.8	27.1	26.3	25.9	25.0	22.2	20.7	19.4
90°	12.3	12.4	12.6	12.8	12.6	12.4	12.3	12.1	11.7	11.1	10.6
92.5°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.5	18.3	17.9	17.6
95°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.6	33.3	33.0
97.5°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.7	52.4	52.0
100°	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.1	65.9	65.7
102.5°	81.0	81.1	81.2	81.2	81.2	81.1	81.0	81.0	80.8	80.5	80.2
105°	103.4	103.7	104.0	104.2	104.0	103.7	103.4	103.1	102.8	102.5	102.3
107.5°	126.7	126.7	126.6	126.6	126.6	126.7	126.7	126.7	126.6	126.3	126.0
110°	141.8	142.0	142.3	142.6	142.3	142.0	141.8	141.5	141.5	141.7	141.9



TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	158.9	158.9	159.0	159.0	159.0	158.9	158.9	158.8	158.8	158.8	158.9
115°	184.8	184.7	184.6	184.5	184.6	184.7	184.8	184.9	185.0	185.1	185.2
117.5°	209.3	209.2	209.0	208.8	209.0	209.2	209.3	209.5	209.8	210.1	210.5
120°	226.7	226.9	227.1	227.2	227.1	226.9	226.7	226.5	226.6	227.1	227.5
122.5°	243.6	243.3	242.9	242.6	242.9	243.3	243.6	243.9	244.3	244.6	245.0
125°	269.7	269.5	269.3	269.1	269.3	269.5	269.7	269.8	270.0	270.2	270.4
127.5°	294.1	293.9	293.8	293.6	293.8	293.9	294.1	294.2	294.4	294.5	294.7
130°	310.8	310.4	310.0	309.6	310.0	310.4	310.8	311.1	311.4	311.6	311.8
132.5°	327.2	327.1	326.9	326.8	326.9	327.1	327.2	327.3	327.5	327.7	327.9
135°	351.1	350.8	350.5	350.2	350.5	350.8	351.1	351.4	351.6	351.8	351.9
137.5°	374.8	374.8	374.8	374.9	374.8	374.8	374.8	374.7	374.8	375.0	375.2
140°	390.2	390.1	390.0	389.9	390.0	390.1	390.2	390.3	390.4	390.5	390.6
142.5°	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.1	405.1	405.1
145°	426.2	425.9	425.7	425.4	425.7	425.9	426.2	426.5	426.7	426.8	426.9
147.5°	446.4	446.3	446.2	446.1	446.2	446.3	446.4	446.5	446.6	446.6	446.7
150°	459.0	458.9	458.8	458.7	458.8	458.9	459.0	459.1	459.1	459.1	459.1
152.5°	471.1	470.8	470.6	470.3	470.6	470.8	471.1	471.3	471.4	471.1	470.9
155°	487.6	487.2	486.8	486.4	486.8	487.2	487.6	488.0	488.0	487.6	487.2
157.5°	501.9	501.5	501.2	500.9	501.2	501.5	501.9	502.2	502.2	501.9	501.6
160°	510.6	510.1	509.5	509.1	509.5	510.1	510.6	511.0	511.1	510.9	510.6
162.5°	519.1	518.6	518.1	517.6	518.1	518.6	519.1	519.5	519.5	519.1	518.5
165°	529.9	529.5	529.1	528.8	529.1	529.5	529.9	530.3	530.2	529.6	529.0
167.5°	538.5	537.9	537.2	536.7	537.2	537.9	538.5	539.0	539.0	538.5	537.9
170°	543.1	542.4	541.8	541.1	541.8	542.4	543.1	543.8	543.8	543.3	542.7
172.5°	546.9	546.2	545.5	544.9	545.5	546.2	546.9	547.5	547.5	547.0	546.3
175°	550.8	550.2	549.5	548.8	549.5	550.2	550.8	551.5	551.5	550.8	550.2
177.5°	552.7	552.1	551.5	550.9	551.5	552.1	552.7	553.3	553.4	552.8	552.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	846.2	847.4	852.2	856.5	861.8	865.6	868.3	871.2	877.3	882.3	887.0
5°	792.9	794.7	804.3	810.9	822.2	832.1	839.8	848.2	858.2	871.7	884.2
7.5°	745.8	752.7	763.1	773.8	785.4	798.3	809.6	822.4	839.4	858.1	877.3
10°	719.2	726.9	737.8	750.4	761.3	776.4	790.3	805.3	824.7	847.5	870.2
12.5°	692.5	705.1	713.5	728.3	740.2	752.6	767.4	787.1	809.8	833.7	861.1
15°	659.0	666.0	682.1	690.2	707.0	726.1	740.7	760.6	782.6	814.2	844.9
17.5°	620.4	629.6	642.4	657.8	677.2	692.1	710.4	730.8	758.5	789.8	828.4
20°	595.2	602.9	618.7	635.6	656.1	671.8	691.3	711.1	739.7	773.1	813.4
22.5°	572.6	580.0	596.6	612.4	632.4	651.6	671.9	694.9	722.4	757.5	798.7
25°	537.6	547.5	562.2	578.3	597.4	619.4	641.4	661.9	691.3	728.3	772.3
27.5°	506.6	514.5	525.2	543.5	565.1	586.4	608.2	634.0	662.2	701.4	747.1
30°	486.6	494.0	504.6	521.5	541.7	564.4	587.1	612.1	641.4	680.2	726.9
32.5°	470.8	476.4	485.9	501.0	519.3	543.3	565.7	591.5	622.4	660.6	706.1
35°	447.4	452.1	455.8	470.1	486.6	508.7	531.4	558.9	588.6	624.9	670.3
37.5°	424.4	426.0	431.4	440.8	456.8	477.0	498.1	525.2	555.6	592.6	633.6
40°	410.4	411.1	414.4	423.2	437.2	456.2	476.7	503.5	532.4	567.3	608.0
42.5°	396.6	396.2	399.2	405.3	418.4	435.6	455.9	480.3	509.3	541.5	579.9
45°	374.8	374.8	374.1	379.2	389.8	406.7	423.6	447.0	471.3	502.8	535.1
47.5°	352.0	350.0	350.6	353.3	362.2	376.1	393.1	412.4	433.7	460.4	488.7
50°	337.4	334.4	333.4	336.3	344.3	356.5	372.6	389.5	409.6	433.1	457.3
52.5°	321.2	318.3	316.3	318.4	325.8	337.1	351.8	366.6	384.7	403.8	424.7
55°	296.3	293.0	291.9	292.7	298.1	307.0	319.4	333.0	346.6	362.3	377.0
57.5°	271.7	266.4	265.3	264.9	268.7	276.8	287.2	299.0	308.9	318.4	334.0
60°	255.6	249.0	246.9	246.5	249.4	256.0	265.5	277.2	284.2	290.8	304.3
62.5°	238.3	232.0	227.2	227.6	230.3	236.6	245.0	253.4	258.1	265.3	274.5
65°	211.6	203.5	199.8	198.8	200.2	205.4	212.0	217.4	222.6	225.6	234.3
67.5°	184.9	178.1	172.8	171.4	170.8	174.3	179.6	183.0	186.6	189.3	194.4
70°	166.2	160.2	153.6	151.5	151.1	154.0	159.2	159.6	164.7	165.8	171.3
72.5°	147.6	140.3	135.7	133.6	132.1	134.7	138.1	139.0	141.8	143.7	146.7
75°	118.9	113.3	109.0	105.7	104.5	105.9	105.9	107.8	109.6	110.7	114.0
77.5°	93.5	87.2	82.0	80.1	78.8	77.9	78.6	79.7	78.9	80.8	81.5
80°	75.9	69.3	65.3	64.6	62.3	60.5	60.1	61.3	59.8	60.5	62.7
82.5°	58.6	54.4	50.0	49.3	46.5	45.5	45.1	44.5	44.5	44.4	44.8
85°	34.9	32.2	29.3	27.5	26.4	24.6	24.6	23.8	23.1	22.3	22.7
87.5°	16.1	15.4	13.8	12.7	12.0	10.7	10.5	9.4	8.9	8.4	7.9
90°	10.0	9.4	8.7	7.9	7.2	6.3	5.5	4.4	3.4	2.4	1.3
92.5°	17.2	16.9	16.4	15.8	15.4	14.8	13.9	12.7	11.5	10.4	9.1
95°	32.7	32.4	31.8	31.1	30.4	29.8	29.0	28.2	27.3	26.5	25.6
97.5°	51.7	51.4	50.5	49.8	49.0	48.3	47.5	46.8	46.1	45.4	44.8
100°	65.5	65.3	64.5	63.6	62.8	61.9	61.4	60.9	60.5	60.1	59.8
102.5°	79.9	79.7	78.9	78.1	77.4	76.6	76.2	76.0	75.8	75.7	75.5
105°	101.9	101.6	101.2	100.9	100.5	100.1	99.9	99.8	99.7	99.6	99.5
107.5°	125.7	125.5	125.5	125.4	125.4	125.3	125.2	125.1	125.0	124.8	124.7
110°	142.0	142.2	142.3	142.4	142.5	142.6	142.5	142.3	142.1	141.9	141.8



TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	158.9	159.0	159.1	159.3	159.5	159.7	159.8	159.7	159.7	159.6	159.6
115°	185.3	185.4	185.6	185.8	186.0	186.2	186.2	186.2	186.2	186.2	186.2
117.5°	210.8	211.0	211.2	211.3	211.5	211.6	211.6	211.6	211.5	211.4	211.3
120°	228.0	228.5	228.8	229.0	229.3	229.6	229.6	229.2	228.8	228.5	228.1
122.5°	245.2	245.6	245.7	245.8	246.0	246.1	246.1	245.9	245.8	245.6	245.5
125°	270.6	270.8	270.9	271.0	271.1	271.2	271.2	271.2	271.2	271.2	271.2
127.5°	294.9	295.1	295.3	295.4	295.6	295.8	295.7	295.4	295.1	294.8	294.5
130°	312.0	312.2	312.2	312.2	312.2	312.2	312.1	311.8	311.5	311.2	310.9
132.5°	328.1	328.3	328.4	328.4	328.5	328.6	328.5	328.3	328.1	327.9	327.6
135°	352.1	352.3	352.3	352.3	352.3	352.3	352.0	351.5	350.9	350.3	349.8
137.5°	375.5	375.8	375.6	375.5	375.3	375.1	374.9	374.7	374.4	374.2	373.9
140°	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.5	390.3	390.1	389.9
142.5°	405.1	405.1	405.2	405.3	405.4	405.5	405.4	405.2	405.0	404.8	404.6
145°	427.0	427.1	427.0	426.9	426.8	426.7	426.5	426.1	425.7	425.4	425.0
147.5°	446.8	446.9	447.0	447.0	447.0	447.1	447.0	446.5	446.0	445.5	445.2
150°	459.1	459.1	459.1	459.1	459.1	459.1	458.9	458.5	458.2	457.8	457.4
152.5°	470.6	470.4	470.3	470.2	470.1	470.1	470.0	469.8	469.5	469.3	469.0
155°	486.8	486.4	486.5	486.6	486.7	486.8	486.9	486.9	486.9	486.9	486.9
157.5°	501.3	501.1	501.1	501.1	501.1	501.1	501.2	501.4	501.6	501.7	501.9
160°	510.3	510.0	510.1	510.2	510.3	510.4	510.5	510.6	510.7	510.8	510.9
162.5°	518.0	517.5	517.6	517.6	517.7	517.8	518.0	518.3	518.5	518.8	519.1
165°	528.5	527.9	528.1	528.3	528.5	528.7	528.9	529.1	529.4	529.7	530.0
167.5°	537.3	536.8	536.8	536.8	536.7	536.7	536.9	537.3	537.7	538.1	538.5
170°	542.2	541.6	541.5	541.4	541.3	541.2	541.4	541.9	542.3	542.8	543.3
172.5°	545.6	545.0	545.0	545.0	544.9	544.9	545.1	545.5	545.9	546.3	546.7
175°	549.5	548.8	548.9	549.0	549.1	549.2	549.5	550.0	550.4	550.9	551.4
177.5°	551.8	551.2	551.2	551.2	551.2	551.2	551.4	551.8	552.1	552.5	552.9
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	891.2	894.1	897.9	904.4	906.7	909.6	913.7	913.4	914.6	919.0	928.4
5°	894.5	905.8	916.8	930.0	944.0	953.1	965.6	973.3	981.0	990.9	1007.8
7.5°	895.8	913.8	934.0	957.2	977.8	1001.5	1020.1	1037.6	1053.3	1074.2	1094.3
10°	893.7	917.9	944.0	973.3	1004.5	1030.9	1054.7	1081.9	1104.9	1130.2	1153.0
12.5°	889.9	919.1	953.9	986.7	1023.2	1062.2	1091.9	1119.4	1150.1	1179.2	1214.3
15°	881.3	921.2	962.0	1005.2	1054.0	1099.1	1142.0	1177.5	1210.6	1254.2	1300.0
17.5°	870.2	913.3	964.7	1017.1	1068.1	1119.6	1172.7	1226.2	1267.8	1322.0	1357.9
20°	860.0	909.8	962.6	1025.0	1076.0	1140.2	1193.0	1244.6	1301.8	1355.8	1398.7
22.5°	845.6	900.1	956.2	1018.2	1085.3	1149.5	1210.6	1266.7	1323.9	1382.5	1434.5
25°	827.4	876.8	943.2	1013.6	1080.3	1150.1	1220.1	1290.5	1352.1	1414.1	1462.5
27.5°	796.3	858.8	920.6	993.3	1067.4	1146.2	1221.2	1294.9	1359.3	1410.3	1440.4
30°	780.4	834.6	901.8	974.8	1055.1	1139.8	1217.9	1290.2	1350.3	1391.0	1403.1
32.5°	757.0	812.9	878.6	954.2	1039.2	1126.2	1207.6	1275.7	1326.0	1347.3	1332.7
35°	722.1	772.7	839.1	916.4	1004.8	1097.6	1177.9	1235.5	1261.2	1241.0	1190.7
37.5°	680.2	730.5	797.1	873.1	964.6	1058.9	1131.5	1172.9	1164.4	1114.3	1039.3
40°	650.9	697.9	761.3	843.5	932.6	1027.2	1091.0	1113.4	1090.0	1018.0	938.5
42.5°	618.4	664.1	727.8	807.1	901.4	988.7	1044.3	1046.2	1006.9	921.0	841.0
45°	568.8	612.5	672.6	755.1	842.4	924.5	961.2	943.2	870.6	787.7	707.4
47.5°	519.9	557.7	617.0	695.3	778.2	847.3	865.5	833.2	755.8	675.3	600.9
50°	484.1	522.3	578.0	652.8	732.7	792.5	801.3	758.4	682.5	601.4	543.1
52.5°	449.8	487.6	541.3	610.5	683.7	737.6	737.9	688.2	612.7	540.5	486.2
55°	399.4	433.5	481.9	543.8	609.2	651.3	641.0	589.7	524.1	461.4	414.1
57.5°	350.8	380.5	425.1	476.8	534.3	569.1	552.0	502.7	444.0	390.9	355.0
60°	319.4	347.6	385.8	434.6	483.0	510.1	494.0	449.2	395.3	352.4	321.2
62.5°	288.9	312.7	349.4	391.7	436.6	456.8	442.3	398.2	351.7	312.8	287.5
65°	245.7	265.1	294.5	330.8	363.4	380.7	368.5	327.4	291.9	264.0	243.8
67.5°	205.4	220.6	242.8	271.9	299.6	309.0	297.9	269.3	239.2	216.9	202.6
70°	177.5	191.8	210.5	232.9	257.0	267.0	256.0	233.3	208.7	188.1	174.2
72.5°	153.2	164.2	180.0	199.2	218.0	228.0	220.5	198.6	177.9	162.6	150.7
75°	116.6	126.1	137.1	150.7	165.4	172.0	165.4	150.3	136.0	124.7	116.2
77.5°	84.8	89.9	98.4	108.6	117.7	122.8	117.1	106.9	98.1	90.4	86.1
80°	64.6	68.2	74.1	82.2	88.4	93.1	89.4	81.1	74.1	68.9	67.1
82.5°	46.9	49.4	53.3	59.3	63.4	65.9	64.3	58.2	55.3	50.7	48.9
85°	23.1	24.6	27.1	28.9	32.6	33.0	33.4	30.8	28.3	27.1	25.6
87.5°	8.4	8.9	10.0	11.0	12.4	12.8	12.7	12.9	11.9	11.7	10.7
90°	2.4	3.4	4.4	5.5	6.3	7.2	7.9	8.7	9.4	10.0	10.6
92.5°	10.4	11.5	12.7	13.9	14.8	15.4	15.8	16.4	16.9	17.2	17.6
95°	26.5	27.3	28.2	29.0	29.8	30.4	31.1	31.8	32.4	32.7	33.0
97.5°	45.4	46.1	46.8	47.5	48.3	49.0	49.8	50.5	51.4	51.7	52.0
100°	60.1	60.5	60.9	61.4	61.9	62.8	63.6	64.5	65.3	65.5	65.7
102.5°	75.7	75.8	76.0	76.2	76.6	77.4	78.1	78.9	79.7	79.9	80.2
105°	99.6	99.7	99.8	99.9	100.1	100.5	100.9	101.2	101.6	101.9	102.3
107.5°	124.8	125.0	125.1	125.2	125.3	125.4	125.4	125.5	125.5	125.7	126.0
110°	141.9	142.1	142.3	142.5	142.6	142.5	142.4	142.3	142.2	142.0	141.9





TEST NUMBER: P332746-830

CATALOG NUMBER: S124DIW-S575D470U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	159.6	159.7	159.7	159.8	159.7	159.5	159.3	159.1	159.0	158.9	158.9
115°	186.2	186.2	186.2	186.2	186.2	186.0	185.8	185.6	185.4	185.3	185.2
117.5°	211.4	211.5	211.6	211.6	211.6	211.5	211.3	211.2	211.0	210.8	210.5
120°	228.5	228.8	229.2	229.6	229.6	229.3	229.0	228.8	228.5	228.0	227.5
122.5°	245.6	245.8	245.9	246.1	246.1	246.0	245.8	245.7	245.6	245.2	245.0
125°	271.2	271.2	271.2	271.2	271.2	271.1	271.0	270.9	270.8	270.6	270.4
127.5°	294.8	295.1	295.4	295.7	295.8	295.6	295.4	295.3	295.1	294.9	294.7
130°	311.2	311.5	311.8	312.1	312.2	312.2	312.2	312.2	312.2	312.0	311.8
132.5°	327.9	328.1	328.3	328.5	328.6	328.5	328.4	328.4	328.3	328.1	327.9
135°	350.3	350.9	351.5	352.0	352.3	352.3	352.3	352.3	352.3	352.1	351.9
137.5°	374.2	374.4	374.7	374.9	375.1	375.3	375.5	375.6	375.8	375.5	375.2
140°	390.1	390.3	390.5	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.6
142.5°	404.8	405.0	405.2	405.4	405.5	405.4	405.3	405.2	405.1	405.1	405.1
145°	425.4	425.7	426.1	426.5	426.7	426.8	426.9	427.0	427.1	427.0	426.9
147.5°	445.5	446.0	446.5	447.0	447.1	447.0	447.0	447.0	446.9	446.8	446.7
150°	457.8	458.2	458.5	458.9	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	469.3	469.5	469.8	470.0	470.1	470.1	470.2	470.3	470.4	470.6	470.9
155°	486.9	486.9	486.9	486.9	486.8	486.7	486.6	486.5	486.4	486.8	487.2
157.5°	501.7	501.6	501.4	501.2	501.1	501.1	501.1	501.1	501.1	501.3	501.6
160°	510.8	510.7	510.6	510.5	510.4	510.3	510.2	510.1	510.0	510.3	510.6
162.5°	518.8	518.5	518.3	518.0	517.8	517.7	517.6	517.6	517.5	518.0	518.5
165°	529.7	529.4	529.1	528.9	528.7	528.5	528.3	528.1	527.9	528.5	529.0
167.5°	538.1	537.7	537.3	536.9	536.7	536.7	536.8	536.8	536.8	537.3	537.9
170°	542.8	542.3	541.9	541.4	541.2	541.3	541.4	541.5	541.6	542.2	542.7
172.5°	546.3	545.9	545.5	545.1	544.9	544.9	545.0	545.0	545.0	545.6	546.3
175°	550.9	550.4	550.0	549.5	549.2	549.1	549.0	548.9	548.8	549.5	550.2
177.5°	552.5	552.1	551.8	551.4	551.2	551.2	551.2	551.2	551.2	551.8	552.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	933.1	933.7	936.3	938.4	939.0	941.9	942.2
5°	1015.1	1021.3	1033.4	1034.5	1036.3	1045.9	1038.6
7.5°	1111.2	1127.0	1137.6	1146.9	1150.3	1154.4	1153.6
10°	1172.8	1196.3	1208.0	1226.7	1227.5	1232.2	1229.3
12.5°	1234.7	1262.0	1283.4	1286.9	1302.5	1305.0	1309.1
15°	1322.4	1351.4	1381.1	1391.8	1413.3	1418.5	1426.5
17.5°	1404.9	1434.5	1455.3	1482.8	1491.7	1503.5	1495.5
20°	1450.0	1482.3	1508.7	1530.3	1539.5	1546.1	1545.4
22.5°	1477.3	1509.9	1531.3	1547.7	1556.2	1559.1	1558.9
25°	1494.4	1513.2	1519.8	1526.0	1516.5	1513.2	1514.6
27.5°	1446.9	1442.0	1424.8	1402.2	1378.8	1360.1	1350.0
30°	1381.5	1352.8	1326.8	1281.4	1257.8	1244.0	1231.4
32.5°	1288.7	1243.4	1193.4	1151.7	1124.9	1104.3	1101.2
35°	1129.9	1061.7	1000.4	949.4	923.0	900.7	895.5
37.5°	960.6	889.8	834.6	789.7	761.3	745.6	730.8
40°	848.2	787.4	733.1	694.9	673.4	661.9	652.8
42.5°	761.7	706.1	652.1	623.0	603.5	596.5	591.2
45°	642.2	590.4	553.0	531.0	519.6	507.9	502.4
47.5°	546.4	504.4	479.7	461.0	448.8	441.9	438.3
50°	492.1	457.7	435.6	421.4	410.4	404.8	401.9
52.5°	444.0	415.8	397.3	385.9	378.4	374.4	373.2
55°	382.5	360.9	349.1	339.2	333.8	330.1	328.6
57.5°	332.4	315.8	306.3	298.1	296.1	292.9	291.9
60°	299.6	286.8	278.7	273.2	271.4	267.7	268.4
62.5°	270.6	260.0	253.2	250.1	247.6	244.5	245.5
65°	228.8	221.1	217.4	214.5	211.6	209.8	211.2
67.5°	192.0	186.7	181.7	180.0	178.6	178.3	176.7
70°	168.0	163.5	159.2	158.1	158.1	156.6	156.2
72.5°	144.8	141.6	138.6	137.8	136.7	137.2	135.7
75°	111.9	109.2	108.2	107.1	106.7	106.7	105.7
77.5°	82.7	80.8	79.0	79.0	77.7	77.2	77.0
80°	62.7	62.0	60.5	60.5	59.8	60.1	59.4
82.5°	47.1	46.1	45.8	45.2	44.2	44.3	43.5
85°	25.3	24.2	23.8	22.7	22.0	22.7	22.0
87.5°	11.0	10.8	10.7	10.1	9.8	9.9	9.0
90°	11.1	11.7	12.1	12.3	12.4	12.6	12.8
92.5°	17.9	18.3	18.5	18.7	18.8	18.9	18.9
95°	33.3	33.6	33.7	33.7	33.7	33.7	33.7
97.5°	52.4	52.7	52.9	52.9	52.9	52.9	52.9
100°	65.9	66.1	66.2	66.2	66.2	66.2	66.2
102.5°	80.5	80.8	81.0	81.0	81.1	81.2	81.2
105°	102.5	102.8	103.1	103.4	103.7	104.0	104.2
107.5°	126.3	126.6	126.7	126.7	126.7	126.6	126.6
110°	141.7	141.5	141.5	141.8	142.0	142.3	142.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	158.8	158.8	158.8	158.9	158.9	159.0	159.0
115°	185.1	185.0	184.9	184.8	184.7	184.6	184.5
117.5°	210.1	209.8	209.5	209.3	209.2	209.0	208.8
120°	227.1	226.6	226.5	226.7	226.9	227.1	227.2
122.5°	244.6	244.3	243.9	243.6	243.3	242.9	242.6
125°	270.2	270.0	269.8	269.7	269.5	269.3	269.1
127.5°	294.5	294.4	294.2	294.1	293.9	293.8	293.6
130°	311.6	311.4	311.1	310.8	310.4	310.0	309.6
132.5°	327.7	327.5	327.3	327.2	327.1	326.9	326.8
135°	351.8	351.6	351.4	351.1	350.8	350.5	350.2
137.5°	375.0	374.8	374.7	374.8	374.8	374.8	374.9
140°	390.5	390.4	390.3	390.2	390.1	390.0	389.9
142.5°	405.1	405.1	405.0	405.0	405.0	405.0	405.0
145°	426.8	426.7	426.5	426.2	425.9	425.7	425.4
147.5°	446.6	446.6	446.5	446.4	446.3	446.2	446.1
150°	459.1	459.1	459.1	459.0	458.9	458.8	458.7
152.5°	471.1	471.4	471.3	471.1	470.8	470.6	470.3
155°	487.6	488.0	488.0	487.6	487.2	486.8	486.4
157.5°	501.9	502.2	502.2	501.9	501.5	501.2	500.9
160°	510.9	511.1	511.0	510.6	510.1	509.5	509.1
162.5°	519.1	519.5	519.5	519.1	518.6	518.1	517.6
165°	529.6	530.2	530.3	529.9	529.5	529.1	528.8
167.5°	538.5	539.0	539.0	538.5	537.9	537.2	536.7
170°	543.3	543.8	543.8	543.1	542.4	541.8	541.1
172.5°	547.0	547.5	547.5	546.9	546.2	545.5	544.9
175°	550.8	551.5	551.5	550.8	550.2	549.5	548.8
177.5°	552.8	553.4	553.3	552.7	552.1	551.5	550.9
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2

(END OF REPORT)