

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: P333035

Luminaire Tested: **S124RDIW-S575D470U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333035  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S575D470U835-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 470 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

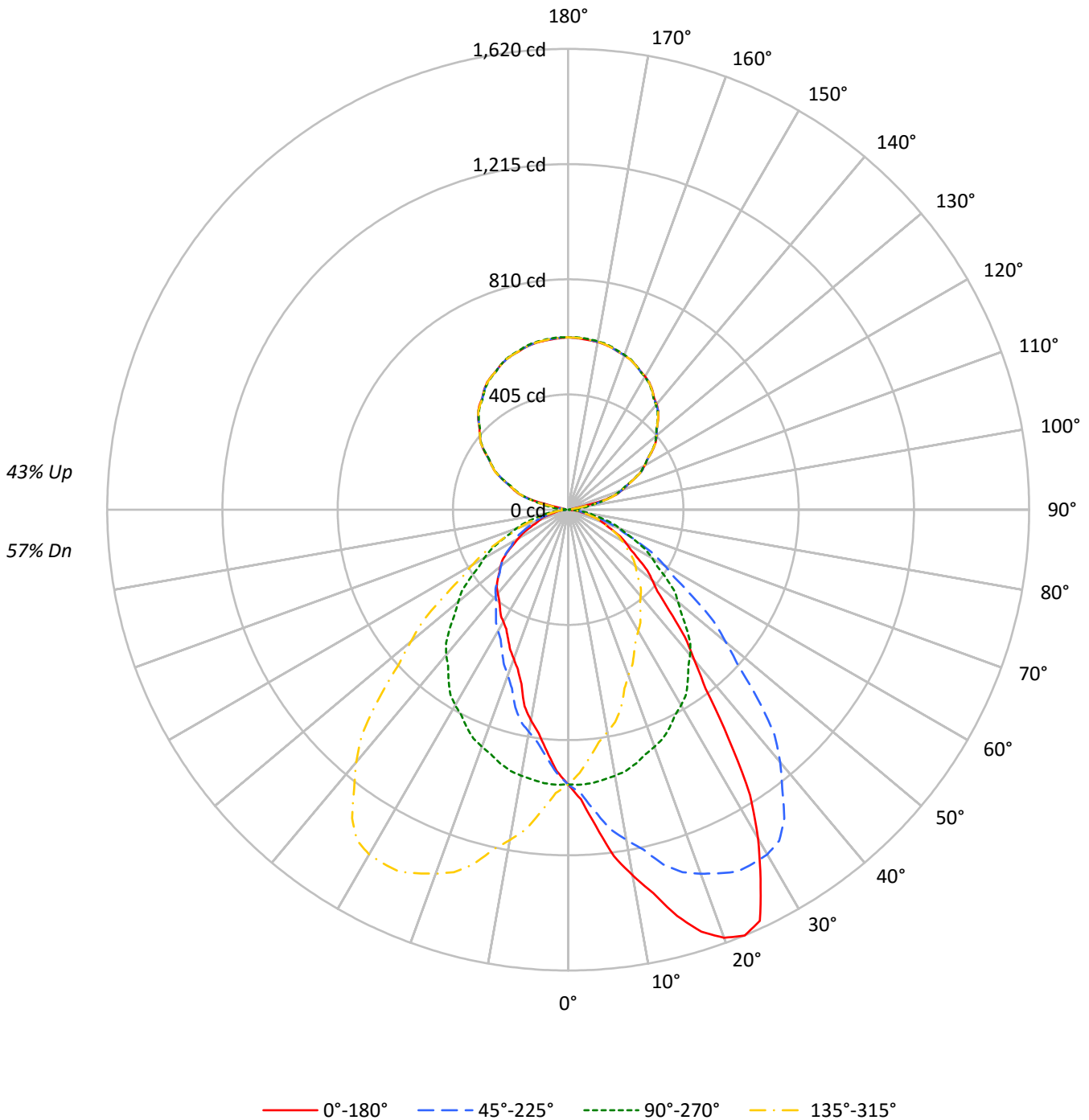
Lumens per Lamp: N/A  
Luminaire Lumens: 4317.1 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	55	54	49
2	91	84	78	73	85	79	73	69	68	64	61	59	56	53	50	48	46	42
3	84	74	67	62	78	70	63	58	61	56	52	52	49	46	44	42	40	36
4	77	66	58	52	71	62	55	50	54	49	45	47	43	39	40	37	35	31
5	71	59	51	45	66	56	48	43	49	43	39	42	38	35	36	33	30	27
6	65	53	45	40	61	50	43	38	44	38	34	38	34	30	33	30	27	24
7	60	48	40	35	56	45	38	33	40	34	30	35	30	27	30	27	24	22
8	56	44	36	31	52	41	34	30	37	31	27	32	28	24	28	24	22	19
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20	18
10	49	37	30	25	46	35	28	24	31	26	22	27	23	20	24	20	18	16

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

	0°	90°	180°	270°
0°	7796	7796	7796	7796
5°	9043	7819	6912	7819
10°	10698	7785	6169	7785
15°	12357	7713	5300	7713
20°	13759	7614	4793	7614
25°	14203	7517	4450	7517
30°	12433	7399	4243	7399
35°	9678	7224	4119	7224
40°	7258	7024	4051	7024
45°	5730	6703	4015	6703
50°	4838	6332	3900	6332
55°	4217	5925	3690	5925
60°	3794	5503	3266	5503
65°	3345	5047	2810	5047
70°	3012	4574	2535	4574
75°	2523	4055	2162	4055
80°	2134	3454	2027	3454
85°	1806	2705	1806	2705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	2.2
10°-20°	282.2	6.5
20°-30°	441.5	10.2
30°-40°	490.8	11.4
40°-50°	435.4	10.1
50°-60°	339.3	7.9
60°-70°	222.1	5.1
70°-80°	109.2	2.5
80°-90°	28.7	0.7
90°-100°	20.7	0.5
100°-110°	132.1	3.1
110°-120°	252.8	5.9
120°-130°	320.9	7.4
130°-140°	343.3	8.0
140°-150°	321.0	7.4
150°-160°	258.9	6.0
160°-170°	167.0	3.9
170°-180°	57.6	1.3
0°-30°	817.3	18.9
0°-40°	1308.0	30.3
0°-60°	2082.7	48.2
0°-90°	2442.8	56.6
90°-120°	405.6	9.4
90°-150°	1390.9	32.2
90°-180°	1874.0	43.4
0°-180°	4317.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	966	966	966	966	966	
5°	1116	965	853	965	1116	113
15°	1478	923	634	923	1478	420
25°	1594	844	500	844	1594	707
35°	982	733	418	733	982	616
45°	502	587	352	587	502	397
55°	300	421	262	421	300	273
65°	175	264	147	264	175	176
75°	81	130	69	130	81	89
85°	20	29	20	29	20	22
90°	14	1	14	1	14	7
95°	13	25	13	25	13	10
105°	129	136	129	136	129	113
115°	256	255	256	255	256	254
125°	361	358	361	358	361	321
135°	447	444	447	444	447	344
145°	515	512	515	512	515	322
155°	561	562	561	562	561	259
165°	590	592	590	592	590	167
175°	602	606	602	606	602	57
180°	606	606	606	606	606	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	1018.6	1021.4	1018.6	1018.3	1015.2	1014.3	1013.0	1009.0	1001.5	997.1	998.1
5°	1115.9	1125.6	1120.2	1119.4	1110.8	1102.3	1096.8	1084.4	1071.1	1062.2	1054.8
7.5°	1228.4	1234.0	1230.6	1225.1	1211.3	1203.4	1190.8	1174.4	1150.7	1132.5	1116.0
10°	1305.0	1309.6	1308.1	1298.0	1287.9	1267.2	1255.6	1232.6	1202.6	1178.9	1156.7
12.5°	1380.3	1385.3	1371.6	1372.1	1352.9	1336.6	1318.1	1289.3	1254.6	1224.0	1196.3
15°	1478.5	1472.3	1472.3	1464.5	1443.1	1420.5	1401.5	1371.1	1327.5	1291.0	1252.5
17.5°	1555.4	1557.6	1554.4	1536.0	1519.2	1495.9	1460.9	1425.5	1385.0	1335.9	1296.6
20°	1601.5	1601.5	1598.0	1585.5	1563.7	1538.8	1501.1	1462.6	1411.2	1361.8	1317.4
22.5°	1620.1	1621.4	1617.3	1607.0	1587.4	1563.1	1531.0	1491.8	1438.9	1383.3	1328.3
25°	1594.5	1601.8	1602.6	1599.9	1594.1	1579.3	1551.7	1511.6	1464.1	1403.8	1344.7
27.5°	1463.9	1473.2	1481.4	1494.8	1512.7	1522.1	1523.3	1502.9	1461.5	1403.5	1344.0
30°	1333.8	1341.5	1366.8	1399.9	1425.6	1448.9	1469.2	1474.6	1451.3	1399.1	1336.5
32.5°	1189.3	1199.9	1225.2	1260.8	1303.6	1343.1	1388.6	1411.7	1411.1	1379.8	1321.9
35°	982.0	989.8	1013.2	1050.5	1101.9	1160.6	1232.6	1288.6	1326.8	1324.0	1288.6
37.5°	792.0	800.8	824.4	855.4	905.2	977.9	1047.6	1124.8	1195.3	1234.9	1223.0
40°	688.7	689.1	712.0	743.9	790.6	854.0	929.9	1015.5	1094.1	1158.3	1170.7
42.5°	607.1	607.2	622.4	656.8	690.4	750.1	822.5	907.5	999.5	1073.6	1106.6
45°	501.9	505.4	517.9	538.5	564.9	615.5	673.5	752.5	855.6	943.5	998.4
47.5°	425.0	430.2	438.1	454.9	476.0	509.7	557.6	628.6	712.5	809.2	887.3
50°	385.2	386.0	396.1	405.4	423.7	450.6	492.6	551.7	628.8	721.7	808.5
52.5°	351.0	350.8	356.9	368.7	383.6	404.5	438.4	492.3	560.6	643.9	733.5
55°	299.6	301.5	306.2	315.5	326.8	341.6	368.5	408.9	462.6	533.8	615.1
57.5°	260.5	261.5	265.2	269.2	279.5	290.3	310.4	338.5	383.8	442.1	517.9
60°	235.0	235.4	236.6	242.4	250.6	260.7	274.3	298.0	336.2	389.5	449.4
62.5°	210.1	210.8	212.6	216.9	223.2	230.2	244.4	263.5	295.1	340.6	394.6
65°	175.1	175.5	178.2	179.8	184.8	191.0	201.5	214.4	236.2	274.3	315.2
67.5°	146.3	146.3	146.4	148.6	152.1	156.2	162.5	172.8	189.2	212.6	248.6
70°	127.6	127.6	128.4	129.6	131.5	135.0	138.5	146.3	158.4	177.4	205.0
72.5°	110.2	110.5	111.3	111.5	112.5	115.4	118.0	122.9	131.9	146.3	168.6
75°	80.9	82.1	84.0	85.6	87.5	87.2	89.9	93.0	95.7	104.3	117.1
77.5°	60.2	59.6	59.8	61.2	61.4	61.8	63.7	66.1	68.2	72.2	76.8
80°	45.9	45.9	47.1	47.5	47.1	47.5	49.4	50.6	51.4	52.9	57.2
82.5°	34.7	35.3	34.9	35.3	35.6	36.0	37.6	37.8	38.6	39.2	41.0
85°	19.5	19.8	20.2	19.5	19.5	19.5	20.2	20.6	21.4	21.0	21.8
87.5°	9.6	9.2	9.5	9.4	9.7	9.3	9.5	10.0	9.3	9.5	9.3
90°	13.6	13.4	13.2	13.0	12.8	12.4	11.8	11.2	10.6	10.0	9.2
92.5°	12.5	12.5	12.4	12.4	12.3	12.0	11.4	10.8	10.2	9.6	8.8
95°	13.1	13.0	12.9	12.8	12.7	12.4	11.8	11.2	10.6	10.0	9.9
97.5°	12.7	12.6	12.5	12.4	12.3	12.2	12.1	12.1	12.0	12.0	23.2
100°	12.7	12.6	12.5	12.4	12.3	13.1	14.8	16.5	18.2	19.9	33.8
102.5°	13.1	13.0	13.0	13.0	13.0	22.2	40.7	59.1	77.6	96.1	97.9
105°	129.2	132.8	136.4	140.0	143.7	145.0	144.1	143.2	142.3	141.4	140.9
107.5°	180.0	179.6	179.2	178.9	178.5	178.1	177.6	177.2	176.7	176.3	175.6
110°	202.1	201.8	201.5	201.2	200.9	200.7	200.5	200.3	200.1	199.9	199.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	224.2	223.9	223.5	223.1	222.7	222.5	222.6	222.6	222.7	222.7	222.4
115°	256.5	256.5	256.5	256.5	256.5	256.4	256.2	256.0	255.8	255.6	255.7
117.5°	289.3	289.4	289.4	289.4	289.5	289.5	289.6	289.6	289.6	289.7	289.5
120°	310.0	310.2	310.4	310.6	310.8	310.8	310.6	310.4	310.2	310.0	310.1
122.5°	330.3	330.5	330.7	330.9	331.1	331.1	331.0	330.9	330.8	330.7	330.5
125°	360.7	360.6	360.5	360.4	360.3	360.1	359.8	359.5	359.2	358.9	359.1
127.5°	387.5	387.6	387.6	387.7	387.8	387.9	387.9	388.0	388.1	388.1	387.7
130°	405.6	405.6	405.6	405.6	405.6	405.6	405.5	405.4	405.3	405.2	404.9
132.5°	422.3	422.4	422.5	422.5	422.6	422.6	422.5	422.4	422.3	422.2	421.8
135°	447.3	447.1	446.9	446.7	446.5	446.3	446.1	445.9	445.7	445.5	445.1
137.5°	468.7	468.8	468.8	468.9	468.9	468.9	468.6	468.4	468.2	468.0	467.5
140°	483.6	483.5	483.4	483.3	483.2	483.0	482.7	482.4	482.1	481.8	481.6
142.5°	495.9	495.9	495.9	495.8	495.8	495.7	495.5	495.2	495.0	494.8	494.7
145°	514.8	514.6	514.4	514.2	514.0	513.9	513.8	513.7	513.6	513.5	513.5
147.5°	530.5	530.4	530.3	530.2	530.1	530.0	529.9	529.9	529.8	529.7	529.8
150°	540.7	540.6	540.5	540.4	540.3	540.2	540.2	540.2	540.2	540.2	540.3
152.5°	549.4	549.4	549.5	549.6	549.6	549.6	549.4	549.2	549.1	548.9	549.1
155°	561.1	561.4	561.7	562.0	562.3	562.2	561.8	561.4	561.0	560.6	560.9
157.5°	570.9	571.4	571.9	572.4	572.9	572.9	572.4	571.9	571.4	570.9	571.2
160°	577.4	578.0	578.6	579.2	579.8	579.8	579.2	578.6	578.0	577.4	577.5
162.5°	582.5	583.1	583.8	584.5	585.2	585.2	584.6	584.0	583.4	582.8	582.9
165°	589.6	590.5	591.4	592.3	593.2	593.3	592.5	591.7	590.9	590.1	590.1
167.5°	595.0	596.0	597.0	598.0	599.0	599.1	598.2	597.3	596.4	595.5	595.6
170°	598.2	599.2	600.2	601.2	602.3	602.4	601.5	600.7	599.9	599.1	599.0
172.5°	600.0	601.1	602.2	603.3	604.4	604.5	603.7	602.9	602.1	601.3	601.2
175°	602.3	603.5	604.7	605.9	607.1	607.3	606.4	605.5	604.6	603.7	603.6
177.5°	603.8	604.7	605.7	606.7	607.6	607.8	607.1	606.5	605.8	605.2	605.0
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	995.0	990.6	988.4	983.4	977.5	974.4	971.6	967.6	962.3	956.7	952.6
5°	1045.5	1036.1	1024.4	1010.4	998.0	985.9	975.4	964.9	952.9	940.4	928.0
7.5°	1097.3	1078.9	1059.1	1036.1	1013.8	993.5	974.8	956.9	936.7	918.5	902.0
10°	1133.4	1108.5	1080.9	1051.7	1022.5	997.2	972.3	949.7	924.8	902.7	884.0
12.5°	1162.7	1133.4	1100.2	1063.8	1028.7	998.1	969.5	940.1	911.8	887.7	862.8
15°	1211.2	1171.1	1126.4	1082.8	1037.3	995.7	957.1	922.9	890.6	856.8	833.0
17.5°	1244.6	1197.0	1142.7	1090.3	1036.5	987.4	943.0	902.2	864.9	830.4	802.1
20°	1264.5	1212.0	1151.7	1092.1	1031.8	979.3	931.5	886.3	847.8	810.5	781.3
22.5°	1275.7	1217.6	1151.7	1089.3	1026.9	970.0	917.5	870.5	828.5	791.2	758.9
25°	1279.3	1217.0	1149.7	1078.1	1009.7	949.4	894.9	843.9	797.2	759.9	725.6
27.5°	1274.3	1201.0	1132.1	1058.6	988.0	924.4	867.2	813.6	766.9	726.8	691.7
30°	1266.8	1188.3	1114.3	1038.1	966.5	905.4	845.1	793.7	745.1	703.5	668.1
32.5°	1250.7	1172.7	1093.2	1015.0	942.5	879.6	822.4	770.7	723.0	680.4	642.8
35°	1218.6	1139.6	1053.2	973.1	901.9	836.5	782.8	733.0	687.5	642.0	602.3
37.5°	1176.3	1095.7	1009.7	922.0	850.7	789.0	739.7	693.0	648.5	607.0	563.0
40°	1136.5	1063.0	974.3	887.1	814.0	754.4	708.9	666.5	621.8	580.5	536.5
42.5°	1088.3	1025.6	936.0	848.5	776.3	718.9	676.5	635.1	594.4	554.4	508.5
45°	1007.7	960.3	876.2	792.2	719.4	662.6	623.7	587.1	551.3	513.2	470.0
47.5°	915.4	883.3	810.8	724.7	657.4	606.3	568.7	538.8	508.5	470.4	432.5
50°	851.3	830.7	760.7	682.1	617.9	570.8	532.3	504.2	479.0	442.4	408.5
52.5°	782.8	771.9	712.7	637.5	575.5	529.4	496.5	471.3	445.7	415.3	383.6
55°	678.6	684.4	634.2	569.2	510.9	472.0	442.0	421.0	399.2	373.5	349.0
57.5°	571.9	593.3	559.6	502.5	447.8	411.9	389.3	371.6	353.4	332.0	311.1
60°	508.1	526.0	507.0	456.8	408.9	375.5	354.5	340.8	322.5	303.1	287.1
62.5°	445.9	465.0	453.7	413.2	368.8	340.0	321.5	308.8	295.2	278.2	261.6
65°	367.7	380.1	374.7	346.7	315.2	290.6	273.5	264.2	251.7	239.3	224.5
67.5°	281.6	305.7	302.5	287.6	260.4	241.2	230.0	221.8	210.4	201.2	191.1
70°	231.5	253.7	253.3	241.2	226.4	208.5	200.8	193.8	183.6	174.7	166.5
72.5°	189.5	209.8	212.8	203.6	193.5	179.9	172.4	167.6	157.8	151.7	145.0
75°	132.7	147.5	151.4	151.4	146.7	139.7	133.1	130.0	122.9	117.5	113.6
77.5°	87.0	96.3	102.4	103.8	104.5	102.2	96.7	94.5	89.2	87.2	83.5
80°	61.5	67.7	74.7	77.0	79.0	78.2	75.9	74.3	69.3	67.3	65.8
82.5°	42.5	45.9	51.7	56.8	56.3	58.3	56.3	55.0	51.2	50.5	48.9
85°	22.2	22.6	23.3	26.8	28.8	29.6	30.0	29.2	28.0	28.0	25.3
87.5°	9.1	8.7	9.1	8.9	9.0	10.1	10.8	10.9	10.1	9.4	8.7
90°	8.4	7.6	6.7	5.8	4.7	3.6	2.5	1.4	2.5	3.6	4.7
92.5°	8.0	7.2	6.4	6.0	5.9	5.8	5.8	5.7	5.8	5.8	5.9
95°	9.8	9.7	9.6	11.2	14.7	18.1	21.5	24.9	21.5	18.1	14.7
97.5°	34.4	45.7	56.9	61.5	59.3	57.2	55.1	52.9	55.1	57.2	59.3
100°	47.7	61.6	75.5	81.6	79.8	78.0	76.1	74.3	76.1	78.0	79.8
102.5°	99.7	101.5	103.3	103.6	102.2	100.9	99.6	98.3	99.6	100.9	102.2
105°	140.4	139.9	139.4	138.8	138.2	137.6	137.0	136.4	137.0	137.6	138.2
107.5°	174.9	174.2	173.6	173.1	172.8	172.5	172.2	171.9	172.2	172.5	172.8
110°	198.7	198.0	197.4	197.0	196.7	196.4	196.1	195.8	196.1	196.4	196.7





TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	222.1	221.9	221.6	221.2	220.6	220.1	219.5	219.0	219.5	220.1	220.6
115°	255.8	255.9	256.0	255.9	255.6	255.3	255.0	254.7	255.0	255.3	255.6
117.5°	289.2	289.0	288.8	288.5	288.1	287.7	287.3	286.9	287.3	287.7	288.1
120°	310.2	310.3	310.4	310.2	309.8	309.4	309.0	308.6	309.0	309.4	309.8
122.5°	330.4	330.2	330.1	329.9	329.7	329.4	329.2	328.9	329.2	329.4	329.7
125°	359.3	359.5	359.7	359.6	359.2	358.8	358.4	358.0	358.4	358.8	359.2
127.5°	387.2	386.7	386.3	386.0	385.9	385.8	385.7	385.6	385.7	385.8	385.9
130°	404.6	404.3	404.0	403.8	403.7	403.6	403.4	403.3	403.4	403.6	403.7
132.5°	421.4	421.1	420.7	420.4	420.2	420.0	419.8	419.7	419.8	420.0	420.2
135°	444.7	444.3	443.9	443.7	443.8	443.9	444.0	444.1	444.0	443.9	443.8
137.5°	467.1	466.6	466.2	466.0	465.9	465.9	465.8	465.8	465.8	465.9	465.9
140°	481.4	481.1	480.9	480.7	480.5	480.3	480.1	479.9	480.1	480.3	480.5
142.5°	494.6	494.4	494.3	494.1	493.7	493.4	493.0	492.6	493.0	493.4	493.7
145°	513.5	513.5	513.5	513.3	513.0	512.7	512.4	512.1	512.4	512.7	513.0
147.5°	529.9	530.0	530.1	529.9	529.3	528.7	528.2	527.6	528.2	528.7	529.3
150°	540.4	540.5	540.6	540.5	540.1	539.7	539.3	538.9	539.3	539.7	540.1
152.5°	549.3	549.5	549.6	549.6	549.2	548.9	548.6	548.3	548.6	548.9	549.2
155°	561.2	561.5	561.8	561.9	561.8	561.7	561.6	561.5	561.6	561.7	561.8
157.5°	571.5	571.9	572.2	572.4	572.5	572.5	572.6	572.7	572.6	572.5	572.5
160°	577.6	577.7	577.8	578.0	578.3	578.6	578.9	579.2	578.9	578.6	578.3
162.5°	583.0	583.1	583.2	583.5	583.8	584.2	584.6	585.0	584.6	584.2	583.8
165°	590.1	590.1	590.1	590.3	590.8	591.3	591.8	592.3	591.8	591.3	590.8
167.5°	595.6	595.7	595.7	596.0	596.6	597.1	597.6	598.1	597.6	597.1	596.6
170°	598.9	598.8	598.7	599.0	599.6	600.2	600.8	601.4	600.8	600.2	599.6
172.5°	601.1	601.0	600.9	601.2	601.8	602.4	603.0	603.6	603.0	602.4	601.8
175°	603.5	603.4	603.3	603.5	604.1	604.7	605.3	605.9	605.3	604.7	604.1
177.5°	604.9	604.7	604.6	604.8	605.3	605.9	606.5	607.0	606.5	605.9	605.3
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	948.3	945.2	941.1	936.4	930.8	925.9	923.7	925.5	926.5	924.0	923.7
5°	919.4	909.7	901.9	890.2	880.9	873.1	867.6	865.3	866.1	859.9	858.3
7.5°	886.9	875.4	862.7	848.8	835.9	824.5	818.5	815.2	808.6	805.8	801.0
10°	866.1	850.5	838.1	821.7	807.0	793.3	786.7	781.3	774.7	771.5	764.9
12.5°	844.6	826.6	812.9	795.9	780.8	764.4	758.1	748.0	737.6	731.1	722.6
15°	814.3	792.6	775.8	755.6	737.7	719.0	702.3	683.6	676.6	661.8	653.3
17.5°	778.9	756.8	736.1	709.0	681.4	658.2	640.3	622.5	611.7	602.3	597.9
20°	755.6	735.4	706.6	675.1	644.3	618.6	604.2	592.6	580.9	574.3	569.6
22.5°	733.5	707.7	674.2	640.2	609.5	589.4	577.2	565.2	555.7	549.4	543.2
25°	696.5	662.6	627.2	588.3	567.3	549.8	536.5	526.8	521.0	512.8	509.7
27.5°	658.4	617.4	578.3	552.2	530.3	514.3	502.8	495.5	488.1	482.8	478.8
30°	629.1	587.5	552.5	527.6	505.4	492.2	482.8	474.3	468.5	464.2	461.1
32.5°	600.2	558.6	529.1	502.4	484.9	472.0	462.0	455.6	451.0	445.5	443.6
35°	558.3	521.4	495.7	471.6	453.7	442.0	434.2	427.6	423.7	422.2	421.0
37.5°	518.1	487.8	460.2	440.4	424.5	415.3	406.1	402.9	400.2	397.4	398.7
40°	492.6	464.2	439.7	418.7	405.8	395.7	390.2	386.4	384.0	384.0	384.0
42.5°	470.5	442.7	418.8	400.0	387.1	378.6	372.5	369.2	368.5	368.1	370.0
45°	436.2	410.5	386.4	370.8	359.9	351.3	347.8	345.1	345.1	346.7	347.1
47.5°	402.2	378.1	358.7	341.3	331.3	326.0	322.9	321.5	321.7	323.2	325.0
50°	381.3	357.6	338.5	322.9	313.6	308.5	305.8	305.0	305.8	305.8	308.5
52.5°	358.6	337.3	318.6	305.5	294.9	290.2	288.7	287.6	288.1	289.3	290.5
55°	325.3	306.2	288.3	275.9	268.1	265.0	261.5	261.9	261.1	261.9	261.9
57.5°	291.9	274.8	258.1	248.2	241.4	236.9	233.1	234.1	233.0	232.8	232.2
60°	270.4	251.7	238.5	229.6	221.8	217.9	214.4	215.2	214.0	213.2	211.7
62.5°	247.1	231.5	218.9	210.3	204.0	199.5	196.0	195.2	192.5	189.9	186.4
65°	213.2	200.4	189.1	180.9	175.1	171.6	168.9	166.5	160.7	154.5	151.4
67.5°	180.3	171.0	160.5	153.6	148.9	144.3	139.1	135.1	129.6	126.2	124.3
70°	159.1	150.2	141.2	134.6	129.6	125.3	119.4	116.7	112.8	111.3	109.3
72.5°	138.9	130.6	122.2	116.3	110.9	107.5	103.0	100.2	98.5	97.9	95.9
75°	108.2	101.6	95.3	89.9	85.6	83.3	81.3	79.4	78.6	75.1	73.1
77.5°	78.9	74.5	70.7	66.8	63.7	62.2	58.4	56.2	54.9	53.2	52.8
80°	61.5	58.4	54.5	52.1	47.9	46.3	44.7	44.4	44.0	43.6	43.2
82.5°	46.2	43.1	39.2	37.8	36.7	35.7	34.8	34.4	34.0	34.2	34.2
85°	23.3	21.8	21.8	21.4	21.0	20.6	20.2	20.2	19.8	20.2	19.8
87.5°	8.9	8.8	9.0	8.5	9.0	9.2	9.0	9.1	9.5	9.0	9.1
90°	5.8	6.7	7.6	8.4	9.2	10.0	10.6	11.2	11.8	12.4	12.8
92.5°	6.0	6.4	7.2	8.0	8.8	9.6	10.2	10.8	11.4	12.0	12.3
95°	11.2	9.6	9.7	9.8	9.9	10.0	10.6	11.2	11.8	12.4	12.7
97.5°	61.5	56.9	45.7	34.4	23.2	12.0	12.0	12.1	12.1	12.2	12.3
100°	81.6	75.5	61.6	47.7	33.8	19.9	18.2	16.5	14.8	13.1	12.3
102.5°	103.6	103.3	101.5	99.7	97.9	96.1	77.6	59.1	40.7	22.2	13.0
105°	138.8	139.4	139.9	140.4	140.9	141.4	142.3	143.2	144.1	145.0	143.7
107.5°	173.1	173.6	174.2	174.9	175.6	176.3	176.7	177.2	177.6	178.1	178.5
110°	197.0	197.4	198.0	198.7	199.3	199.9	200.1	200.3	200.5	200.7	200.9



TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	221.2	221.6	221.9	222.1	222.4	222.7	222.7	222.6	222.6	222.5	222.7
115°	255.9	256.0	255.9	255.8	255.7	255.6	255.8	256.0	256.2	256.4	256.5
117.5°	288.5	288.8	289.0	289.2	289.5	289.7	289.6	289.6	289.6	289.5	289.5
120°	310.2	310.4	310.3	310.2	310.1	310.0	310.2	310.4	310.6	310.8	310.8
122.5°	329.9	330.1	330.2	330.4	330.5	330.7	330.8	330.9	331.0	331.1	331.1
125°	359.6	359.7	359.5	359.3	359.1	358.9	359.2	359.5	359.8	360.1	360.3
127.5°	386.0	386.3	386.7	387.2	387.7	388.1	388.1	388.0	387.9	387.9	387.8
130°	403.8	404.0	404.3	404.6	404.9	405.2	405.3	405.4	405.5	405.6	405.6
132.5°	420.4	420.7	421.1	421.4	421.8	422.2	422.3	422.4	422.5	422.6	422.6
135°	443.7	443.9	444.3	444.7	445.1	445.5	445.7	445.9	446.1	446.3	446.5
137.5°	466.0	466.2	466.6	467.1	467.5	468.0	468.2	468.4	468.6	468.9	468.9
140°	480.7	480.9	481.1	481.4	481.6	481.8	482.1	482.4	482.7	483.0	483.2
142.5°	494.1	494.3	494.4	494.6	494.7	494.8	495.0	495.2	495.5	495.7	495.8
145°	513.3	513.5	513.5	513.5	513.5	513.5	513.6	513.7	513.8	513.9	514.0
147.5°	529.9	530.1	530.0	529.9	529.8	529.7	529.8	529.9	529.9	530.0	530.1
150°	540.5	540.6	540.5	540.4	540.3	540.2	540.2	540.2	540.2	540.2	540.3
152.5°	549.6	549.6	549.5	549.3	549.1	548.9	549.1	549.2	549.4	549.6	549.6
155°	561.9	561.8	561.5	561.2	560.9	560.6	561.0	561.4	561.8	562.2	562.3
157.5°	572.4	572.2	571.9	571.5	571.2	570.9	571.4	571.9	572.4	572.9	572.9
160°	578.0	577.8	577.7	577.6	577.5	577.4	578.0	578.6	579.2	579.8	579.8
162.5°	583.5	583.2	583.1	583.0	582.9	582.8	583.4	584.0	584.6	585.2	585.2
165°	590.3	590.1	590.1	590.1	590.1	590.1	590.9	591.7	592.5	593.3	593.2
167.5°	596.0	595.7	595.7	595.6	595.6	595.5	596.4	597.3	598.2	599.1	599.0
170°	599.0	598.7	598.8	598.9	599.0	599.1	599.9	600.7	601.5	602.4	602.3
172.5°	601.2	600.9	601.0	601.1	601.2	601.3	602.1	602.9	603.7	604.5	604.4
175°	603.5	603.3	603.4	603.5	603.6	603.7	604.6	605.5	606.4	607.3	607.1
177.5°	604.8	604.6	604.7	604.9	605.0	605.2	605.8	606.5	607.1	607.8	607.6
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	921.8	922.4	920.3	919.6	920.3	922.4	921.8	923.7	924.0	926.5	925.5
5°	855.2	854.4	852.5	852.9	852.5	854.4	855.2	858.3	859.9	866.1	865.3
7.5°	798.2	795.2	796.1	792.9	796.1	795.2	798.2	801.0	805.8	808.6	815.2
10°	763.4	759.1	755.6	752.5	755.6	759.1	763.4	764.9	771.5	774.7	781.3
12.5°	715.8	712.1	707.3	708.3	707.3	712.1	715.8	722.6	731.1	737.6	748.0
15°	648.2	642.4	633.0	634.2	633.0	642.4	648.2	653.3	661.8	676.6	683.6
17.5°	591.0	591.1	586.8	587.8	586.8	591.1	591.0	597.9	602.3	611.7	622.5
20°	561.4	558.7	559.1	557.9	559.1	558.7	561.4	569.6	574.3	580.9	592.6
22.5°	540.9	537.6	534.8	532.4	534.8	537.6	540.9	543.2	549.4	555.7	565.2
25°	506.2	503.9	500.4	499.6	500.4	503.9	506.2	509.7	512.8	521.0	526.8
27.5°	475.7	475.2	473.8	472.0	473.8	475.2	475.7	478.8	482.8	488.1	495.5
30°	457.9	457.2	456.4	455.2	456.4	457.2	457.9	461.1	464.2	468.5	474.3
32.5°	442.1	441.6	440.8	440.9	440.8	441.6	442.1	443.6	445.5	451.0	455.6
35°	419.4	419.0	418.3	417.9	418.3	419.0	419.4	421.0	422.2	423.7	427.6
37.5°	398.3	399.3	398.8	398.7	398.8	399.3	398.3	398.7	397.4	400.2	402.9
40°	383.6	384.0	384.8	384.4	384.8	384.0	383.6	384.0	384.0	384.0	386.4
42.5°	371.5	371.6	372.7	371.3	372.7	371.6	371.5	370.0	368.1	368.5	369.2
45°	349.8	352.1	351.7	351.7	351.7	352.1	349.8	347.1	346.7	345.1	345.1
47.5°	326.0	328.1	328.6	328.5	328.6	328.1	326.0	325.0	323.2	321.7	321.5
50°	310.5	309.7	310.9	310.5	310.9	309.7	310.5	308.5	305.8	305.8	305.0
52.5°	291.5	291.7	291.6	291.2	291.6	291.7	291.5	290.5	289.3	288.1	287.6
55°	262.2	262.6	261.9	262.2	261.9	262.6	262.2	261.9	261.9	261.1	261.9
57.5°	230.5	228.6	229.4	228.5	229.4	228.6	230.5	232.2	232.8	233.0	234.1
60°	207.8	204.7	203.9	202.3	203.9	204.7	207.8	211.7	213.2	214.0	215.2
62.5°	182.2	180.1	177.4	178.7	177.4	180.1	182.2	186.4	189.9	192.5	195.2
65°	148.2	146.7	145.5	147.1	145.5	146.7	148.2	151.4	154.5	160.7	166.5
67.5°	122.7	121.9	121.9	121.1	121.9	121.9	122.7	124.3	126.2	129.6	135.1
70°	109.3	108.2	108.2	107.4	108.2	108.2	109.3	109.3	111.3	112.8	116.7
72.5°	95.6	94.5	94.8	94.3	94.8	94.5	95.6	95.9	97.9	98.5	100.2
75°	70.8	68.9	68.9	69.3	68.9	68.9	70.8	73.1	75.1	78.6	79.4
77.5°	52.8	52.4	53.0	52.3	53.0	52.4	52.8	52.8	53.2	54.9	56.2
80°	43.2	42.8	42.4	43.6	42.4	42.8	43.2	43.2	43.6	44.0	44.4
82.5°	33.5	33.5	33.4	34.9	33.4	33.5	33.5	34.2	34.2	34.0	34.4
85°	20.2	19.5	20.2	19.5	20.2	19.5	20.2	19.8	20.2	19.8	20.2
87.5°	9.8	9.5	9.2	9.6	9.2	9.5	9.8	9.1	9.0	9.5	9.1
90°	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.4	11.8	11.2
92.5°	12.4	12.4	12.5	12.5	12.5	12.4	12.4	12.3	12.0	11.4	10.8
95°	12.8	12.9	13.0	13.1	13.0	12.9	12.8	12.7	12.4	11.8	11.2
97.5°	12.4	12.5	12.6	12.7	12.6	12.5	12.4	12.3	12.2	12.1	12.1
100°	12.4	12.5	12.6	12.7	12.6	12.5	12.4	12.3	13.1	14.8	16.5
102.5°	13.0	13.0	13.0	13.1	13.0	13.0	13.0	13.0	22.2	40.7	59.1
105°	140.0	136.4	132.8	129.2	132.8	136.4	140.0	143.7	145.0	144.1	143.2
107.5°	178.9	179.2	179.6	180.0	179.6	179.2	178.9	178.5	178.1	177.6	177.2
110°	201.2	201.5	201.8	202.1	201.8	201.5	201.2	200.9	200.7	200.5	200.3



TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	223.1	223.5	223.9	224.2	223.9	223.5	223.1	222.7	222.5	222.6	222.6
115°	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.4	256.2	256.0
117.5°	289.4	289.4	289.4	289.3	289.4	289.4	289.4	289.5	289.5	289.6	289.6
120°	310.6	310.4	310.2	310.0	310.2	310.4	310.6	310.8	310.8	310.6	310.4
122.5°	330.9	330.7	330.5	330.3	330.5	330.7	330.9	331.1	331.1	331.0	330.9
125°	360.4	360.5	360.6	360.7	360.6	360.5	360.4	360.3	360.1	359.8	359.5
127.5°	387.7	387.6	387.6	387.5	387.6	387.6	387.7	387.8	387.9	387.9	388.0
130°	405.6	405.6	405.6	405.6	405.6	405.6	405.6	405.6	405.6	405.5	405.4
132.5°	422.5	422.5	422.4	422.3	422.4	422.5	422.5	422.6	422.6	422.5	422.4
135°	446.7	446.9	447.1	447.3	447.1	446.9	446.7	446.5	446.3	446.1	445.9
137.5°	468.9	468.8	468.8	468.7	468.8	468.8	468.9	468.9	468.9	468.6	468.4
140°	483.3	483.4	483.5	483.6	483.5	483.4	483.3	483.2	483.0	482.7	482.4
142.5°	495.8	495.9	495.9	495.9	495.9	495.9	495.8	495.8	495.7	495.5	495.2
145°	514.2	514.4	514.6	514.8	514.6	514.4	514.2	514.0	513.9	513.8	513.7
147.5°	530.2	530.3	530.4	530.5	530.4	530.3	530.2	530.1	530.0	529.9	529.9
150°	540.4	540.5	540.6	540.7	540.6	540.5	540.4	540.3	540.2	540.2	540.2
152.5°	549.6	549.5	549.4	549.4	549.4	549.5	549.6	549.6	549.6	549.4	549.2
155°	562.0	561.7	561.4	561.1	561.4	561.7	562.0	562.3	562.2	561.8	561.4
157.5°	572.4	571.9	571.4	570.9	571.4	571.9	572.4	572.9	572.9	572.4	571.9
160°	579.2	578.6	578.0	577.4	578.0	578.6	579.2	579.8	579.8	579.2	578.6
162.5°	584.5	583.8	583.1	582.5	583.1	583.8	584.5	585.2	585.2	584.6	584.0
165°	592.3	591.4	590.5	589.6	590.5	591.4	592.3	593.2	593.3	592.5	591.7
167.5°	598.0	597.0	596.0	595.0	596.0	597.0	598.0	599.0	599.1	598.2	597.3
170°	601.2	600.2	599.2	598.2	599.2	600.2	601.2	602.3	602.4	601.5	600.7
172.5°	603.3	602.2	601.1	600.0	601.1	602.2	603.3	604.4	604.5	603.7	602.9
175°	605.9	604.7	603.5	602.3	603.5	604.7	605.9	607.1	607.3	606.4	605.5
177.5°	606.7	605.7	604.7	603.8	604.7	605.7	606.7	607.6	607.8	607.1	606.5
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	923.7	925.9	930.8	936.4	941.1	945.2	948.3	952.6	956.7	962.3	967.6
5°	867.6	873.1	880.9	890.2	901.9	909.7	919.4	928.0	940.4	952.9	964.9
7.5°	818.5	824.5	835.9	848.8	862.7	875.4	886.9	902.0	918.5	936.7	956.9
10°	786.7	793.3	807.0	821.7	838.1	850.5	866.1	884.0	902.7	924.8	949.7
12.5°	758.1	764.4	780.8	795.9	812.9	826.6	844.6	862.8	887.7	911.8	940.1
15°	702.3	719.0	737.7	755.6	775.8	792.6	814.3	833.0	856.8	890.6	922.9
17.5°	640.3	658.2	681.4	709.0	736.1	756.8	778.9	802.1	830.4	864.9	902.2
20°	604.2	618.6	644.3	675.1	706.6	735.4	755.6	781.3	810.5	847.8	886.3
22.5°	577.2	589.4	609.5	640.2	674.2	707.7	733.5	758.9	791.2	828.5	870.5
25°	536.5	549.8	567.3	588.3	627.2	662.6	696.5	725.6	759.9	797.2	843.9
27.5°	502.8	514.3	530.3	552.2	578.3	617.4	658.4	691.7	726.8	766.9	813.6
30°	482.8	492.2	505.4	527.6	552.5	587.5	629.1	668.1	703.5	745.1	793.7
32.5°	462.0	472.0	484.9	502.4	529.1	558.6	600.2	642.8	680.4	723.0	770.7
35°	434.2	442.0	453.7	471.6	495.7	521.4	558.3	602.3	642.0	687.5	733.0
37.5°	406.1	415.3	424.5	440.4	460.2	487.8	518.1	563.0	607.0	648.5	693.0
40°	390.2	395.7	405.8	418.7	439.7	464.2	492.6	536.5	580.5	621.8	666.5
42.5°	372.5	378.6	387.1	400.0	418.8	442.7	470.5	508.5	554.4	594.4	635.1
45°	347.8	351.3	359.9	370.8	386.4	410.5	436.2	470.0	513.2	551.3	587.1
47.5°	322.9	326.0	331.3	341.3	358.7	378.1	402.2	432.5	470.4	508.5	538.8
50°	305.8	308.5	313.6	322.9	338.5	357.6	381.3	408.5	442.4	479.0	504.2
52.5°	288.7	290.2	294.9	305.5	318.6	337.3	358.6	383.6	415.3	445.7	471.3
55°	261.5	265.0	268.1	275.9	288.3	306.2	325.3	349.0	373.5	399.2	421.0
57.5°	233.1	236.9	241.4	248.2	258.1	274.8	291.9	311.1	332.0	353.4	371.6
60°	214.4	217.9	221.8	229.6	238.5	251.7	270.4	287.1	303.1	322.5	340.8
62.5°	196.0	199.5	204.0	210.3	218.9	231.5	247.1	261.6	278.2	295.2	308.8
65°	168.9	171.6	175.1	180.9	189.1	200.4	213.2	224.5	239.3	251.7	264.2
67.5°	139.1	144.3	148.9	153.6	160.5	171.0	180.3	191.1	201.2	210.4	221.8
70°	119.4	125.3	129.6	134.6	141.2	150.2	159.1	166.5	174.7	183.6	193.8
72.5°	103.0	107.5	110.9	116.3	122.2	130.6	138.9	145.0	151.7	157.8	167.6
75°	81.3	83.3	85.6	89.9	95.3	101.6	108.2	113.6	117.5	122.9	130.0
77.5°	58.4	62.2	63.7	66.8	70.7	74.5	78.9	83.5	87.2	89.2	94.5
80°	44.7	46.3	47.9	52.1	54.5	58.4	61.5	65.8	67.3	69.3	74.3
82.5°	34.8	35.7	36.7	37.8	39.2	43.1	46.2	48.9	50.5	51.2	55.0
85°	20.2	20.6	21.0	21.4	21.8	21.8	23.3	25.3	28.0	28.0	29.2
87.5°	9.0	9.2	9.0	8.5	9.0	8.8	8.9	8.7	9.4	10.1	10.9
90°	10.6	10.0	9.2	8.4	7.6	6.7	5.8	4.7	3.6	2.5	1.4
92.5°	10.2	9.6	8.8	8.0	7.2	6.4	6.0	5.9	5.8	5.8	5.7
95°	10.6	10.0	9.9	9.8	9.7	9.6	11.2	14.7	18.1	21.5	24.9
97.5°	12.0	12.0	23.2	34.4	45.7	56.9	61.5	59.3	57.2	55.1	52.9
100°	18.2	19.9	33.8	47.7	61.6	75.5	81.6	79.8	78.0	76.1	74.3
102.5°	77.6	96.1	97.9	99.7	101.5	103.3	103.6	102.2	100.9	99.6	98.3
105°	142.3	141.4	140.9	140.4	139.9	139.4	138.8	138.2	137.6	137.0	136.4
107.5°	176.7	176.3	175.6	174.9	174.2	173.6	173.1	172.8	172.5	172.2	171.9
110°	200.1	199.9	199.3	198.7	198.0	197.4	197.0	196.7	196.4	196.1	195.8



TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	222.7	222.7	222.4	222.1	221.9	221.6	221.2	220.6	220.1	219.5	219.0
115°	255.8	255.6	255.7	255.8	255.9	256.0	255.9	255.6	255.3	255.0	254.7
117.5°	289.6	289.7	289.5	289.2	289.0	288.8	288.5	288.1	287.7	287.3	286.9
120°	310.2	310.0	310.1	310.2	310.3	310.4	310.2	309.8	309.4	309.0	308.6
122.5°	330.8	330.7	330.5	330.4	330.2	330.1	329.9	329.7	329.4	329.2	328.9
125°	359.2	358.9	359.1	359.3	359.5	359.7	359.6	359.2	358.8	358.4	358.0
127.5°	388.1	388.1	387.7	387.2	386.7	386.3	386.0	385.9	385.8	385.7	385.6
130°	405.3	405.2	404.9	404.6	404.3	404.0	403.8	403.7	403.6	403.4	403.3
132.5°	422.3	422.2	421.8	421.4	421.1	420.7	420.4	420.2	420.0	419.8	419.7
135°	445.7	445.5	445.1	444.7	444.3	443.9	443.7	443.8	443.9	444.0	444.1
137.5°	468.2	468.0	467.5	467.1	466.6	466.2	466.0	465.9	465.9	465.8	465.8
140°	482.1	481.8	481.6	481.4	481.1	480.9	480.7	480.5	480.3	480.1	479.9
142.5°	495.0	494.8	494.7	494.6	494.4	494.3	494.1	493.7	493.4	493.0	492.6
145°	513.6	513.5	513.5	513.5	513.5	513.5	513.3	513.0	512.7	512.4	512.1
147.5°	529.8	529.7	529.8	529.9	530.0	530.1	529.9	529.3	528.7	528.2	527.6
150°	540.2	540.2	540.3	540.4	540.5	540.6	540.5	540.1	539.7	539.3	538.9
152.5°	549.1	548.9	549.1	549.3	549.5	549.6	549.6	549.2	548.9	548.6	548.3
155°	561.0	560.6	560.9	561.2	561.5	561.8	561.9	561.8	561.7	561.6	561.5
157.5°	571.4	570.9	571.2	571.5	571.9	572.2	572.4	572.5	572.5	572.6	572.7
160°	578.0	577.4	577.5	577.6	577.7	577.8	578.0	578.3	578.6	578.9	579.2
162.5°	583.4	582.8	582.9	583.0	583.1	583.2	583.5	583.8	584.2	584.6	585.0
165°	590.9	590.1	590.1	590.1	590.1	590.1	590.3	590.8	591.3	591.8	592.3
167.5°	596.4	595.5	595.6	595.6	595.7	595.7	596.0	596.6	597.1	597.6	598.1
170°	599.9	599.1	599.0	598.9	598.8	598.7	599.0	599.6	600.2	600.8	601.4
172.5°	602.1	601.3	601.2	601.1	601.0	600.9	601.2	601.8	602.4	603.0	603.6
175°	604.6	603.7	603.6	603.5	603.4	603.3	603.5	604.1	604.7	605.3	605.9
177.5°	605.8	605.2	605.0	604.9	604.7	604.6	604.8	605.3	605.9	606.5	607.0
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	971.6	974.4	977.5	983.4	988.4	990.6	995.0	998.1	997.1	1001.5	1009.0
5°	975.4	985.9	998.0	1010.4	1024.4	1036.1	1045.5	1054.8	1062.2	1071.1	1084.4
7.5°	974.8	993.5	1013.8	1036.1	1059.1	1078.9	1097.3	1116.0	1132.5	1150.7	1174.4
10°	972.3	997.2	1022.5	1051.7	1080.9	1108.5	1133.4	1156.7	1178.9	1202.6	1232.6
12.5°	969.5	998.1	1028.7	1063.8	1100.2	1133.4	1162.7	1196.3	1224.0	1254.6	1289.3
15°	957.1	995.7	1037.3	1082.8	1126.4	1171.1	1211.2	1252.5	1291.0	1327.5	1371.1
17.5°	943.0	987.4	1036.5	1090.3	1142.7	1197.0	1244.6	1296.6	1335.9	1385.0	1425.5
20°	931.5	979.3	1031.8	1092.1	1151.7	1212.0	1264.5	1317.4	1361.8	1411.2	1462.6
22.5°	917.5	970.0	1026.9	1089.3	1151.7	1217.6	1275.7	1328.3	1383.3	1438.9	1491.8
25°	894.9	949.4	1009.7	1078.1	1149.7	1217.0	1279.3	1344.7	1403.8	1464.1	1511.6
27.5°	867.2	924.4	988.0	1058.6	1132.1	1201.0	1274.3	1344.0	1403.5	1461.5	1502.9
30°	845.1	905.4	966.5	1038.1	1114.3	1188.3	1266.8	1336.5	1399.1	1451.3	1474.6
32.5°	822.4	879.6	942.5	1015.0	1093.2	1172.7	1250.7	1321.9	1379.8	1411.1	1411.7
35°	782.8	836.5	901.9	973.1	1053.2	1139.6	1218.6	1288.6	1324.0	1326.8	1288.6
37.5°	739.7	789.0	850.7	922.0	1009.7	1095.7	1176.3	1223.0	1234.9	1195.3	1124.8
40°	708.9	754.4	814.0	887.1	974.3	1063.0	1136.5	1170.7	1158.3	1094.1	1015.5
42.5°	676.5	718.9	776.3	848.5	936.0	1025.6	1088.3	1106.6	1073.6	999.5	907.5
45°	623.7	662.6	719.4	792.2	876.2	960.3	1007.7	998.4	943.5	855.6	752.5
47.5°	568.7	606.3	657.4	724.7	810.8	883.3	915.4	887.3	809.2	712.5	628.6
50°	532.3	570.8	617.9	682.1	760.7	830.7	851.3	808.5	721.7	628.8	551.7
52.5°	496.5	529.4	575.5	637.5	712.7	771.9	782.8	733.5	643.9	560.6	492.3
55°	442.0	472.0	510.9	569.2	634.2	684.4	678.6	615.1	533.8	462.6	408.9
57.5°	389.3	411.9	447.8	502.5	559.6	593.3	571.9	517.9	442.1	383.8	338.5
60°	354.5	375.5	408.9	456.8	507.0	526.0	508.1	449.4	389.5	336.2	298.0
62.5°	321.5	340.0	368.8	413.2	453.7	465.0	445.9	394.6	340.6	295.1	263.5
65°	273.5	290.6	315.2	346.7	374.7	380.1	367.7	315.2	274.3	236.2	214.4
67.5°	230.0	241.2	260.4	287.6	302.5	305.7	281.6	248.6	212.6	189.2	172.8
70°	200.8	208.5	226.4	241.2	253.3	253.7	231.5	205.0	177.4	158.4	146.3
72.5°	172.4	179.9	193.5	203.6	212.8	209.8	189.5	168.6	146.3	131.9	122.9
75°	133.1	139.7	146.7	151.4	151.4	147.5	132.7	117.1	104.3	95.7	93.0
77.5°	96.7	102.2	104.5	103.8	102.4	96.3	87.0	76.8	72.2	68.2	66.1
80°	75.9	78.2	79.0	77.0	74.7	67.7	61.5	57.2	52.9	51.4	50.6
82.5°	56.3	58.3	56.3	56.8	51.7	45.9	42.5	41.0	39.2	38.6	37.8
85°	30.0	29.6	28.8	26.8	23.3	22.6	22.2	21.8	21.0	21.4	20.6
87.5°	10.8	10.1	9.0	8.9	9.1	8.7	9.1	9.3	9.5	9.3	10.0
90°	2.5	3.6	4.7	5.8	6.7	7.6	8.4	9.2	10.0	10.6	11.2
92.5°	5.8	5.8	5.9	6.0	6.4	7.2	8.0	8.8	9.6	10.2	10.8
95°	21.5	18.1	14.7	11.2	9.6	9.7	9.8	9.9	10.0	10.6	11.2
97.5°	55.1	57.2	59.3	61.5	56.9	45.7	34.4	23.2	12.0	12.0	12.1
100°	76.1	78.0	79.8	81.6	75.5	61.6	47.7	33.8	19.9	18.2	16.5
102.5°	99.6	100.9	102.2	103.6	103.3	101.5	99.7	97.9	96.1	77.6	59.1
105°	137.0	137.6	138.2	138.8	139.4	139.9	140.4	140.9	141.4	142.3	143.2
107.5°	172.2	172.5	172.8	173.1	173.6	174.2	174.9	175.6	176.3	176.7	177.2
110°	196.1	196.4	196.7	197.0	197.4	198.0	198.7	199.3	199.9	200.1	200.3





TEST NUMBER: P333035

CATALOG NUMBER: S124RDIW-S575D470U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	219.5	220.1	220.6	221.2	221.6	221.9	222.1	222.4	222.7	222.7	222.6
115°	255.0	255.3	255.6	255.9	256.0	255.9	255.8	255.7	255.6	255.8	256.0
117.5°	287.3	287.7	288.1	288.5	288.8	289.0	289.2	289.5	289.7	289.6	289.6
120°	309.0	309.4	309.8	310.2	310.4	310.3	310.2	310.1	310.0	310.2	310.4
122.5°	329.2	329.4	329.7	329.9	330.1	330.2	330.4	330.5	330.7	330.8	330.9
125°	358.4	358.8	359.2	359.6	359.7	359.5	359.3	359.1	358.9	359.2	359.5
127.5°	385.7	385.8	385.9	386.0	386.3	386.7	387.2	387.7	388.1	388.1	388.0
130°	403.4	403.6	403.7	403.8	404.0	404.3	404.6	404.9	405.2	405.3	405.4
132.5°	419.8	420.0	420.2	420.4	420.7	421.1	421.4	421.8	422.2	422.3	422.4
135°	444.0	443.9	443.8	443.7	443.9	444.3	444.7	445.1	445.5	445.7	445.9
137.5°	465.8	465.9	465.9	466.0	466.2	466.6	467.1	467.5	468.0	468.2	468.4
140°	480.1	480.3	480.5	480.7	480.9	481.1	481.4	481.6	481.8	482.1	482.4
142.5°	493.0	493.4	493.7	494.1	494.3	494.4	494.6	494.7	494.8	495.0	495.2
145°	512.4	512.7	513.0	513.3	513.5	513.5	513.5	513.5	513.5	513.6	513.7
147.5°	528.2	528.7	529.3	529.9	530.1	530.0	529.9	529.8	529.7	529.8	529.9
150°	539.3	539.7	540.1	540.5	540.6	540.5	540.4	540.3	540.2	540.2	540.2
152.5°	548.6	548.9	549.2	549.6	549.6	549.5	549.3	549.1	548.9	549.1	549.2
155°	561.6	561.7	561.8	561.9	561.8	561.5	561.2	560.9	560.6	561.0	561.4
157.5°	572.6	572.5	572.5	572.4	572.2	571.9	571.5	571.2	570.9	571.4	571.9
160°	578.9	578.6	578.3	578.0	577.8	577.7	577.6	577.5	577.4	578.0	578.6
162.5°	584.6	584.2	583.8	583.5	583.2	583.1	583.0	582.9	582.8	583.4	584.0
165°	591.8	591.3	590.8	590.3	590.1	590.1	590.1	590.1	590.1	590.9	591.7
167.5°	597.6	597.1	596.6	596.0	595.7	595.7	595.6	595.6	595.5	596.4	597.3
170°	600.8	600.2	599.6	599.0	598.7	598.8	598.9	599.0	599.1	599.9	600.7
172.5°	603.0	602.4	601.8	601.2	600.9	601.0	601.1	601.2	601.3	602.1	602.9
175°	605.3	604.7	604.1	603.5	603.3	603.4	603.5	603.6	603.7	604.6	605.5
177.5°	606.5	605.9	605.3	604.8	604.6	604.7	604.9	605.0	605.2	605.8	606.5
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	1013.0	1014.3	1015.2	1018.3	1018.6	1021.4	1018.6
5°	1096.8	1102.3	1110.8	1119.4	1120.2	1125.6	1115.9
7.5°	1190.8	1203.4	1211.3	1225.1	1230.6	1234.0	1228.4
10°	1255.6	1267.2	1287.9	1298.0	1308.1	1309.6	1305.0
12.5°	1318.1	1336.6	1352.9	1372.1	1371.6	1385.3	1380.3
15°	1401.5	1420.5	1443.1	1464.5	1472.3	1472.3	1478.5
17.5°	1460.9	1495.9	1519.2	1536.0	1554.4	1557.6	1555.4
20°	1501.1	1538.8	1563.7	1585.5	1598.0	1601.5	1601.5
22.5°	1531.0	1563.1	1587.4	1607.0	1617.3	1621.4	1620.1
25°	1551.7	1579.3	1594.1	1599.9	1602.6	1601.8	1594.5
27.5°	1523.3	1522.1	1512.7	1494.8	1481.4	1473.2	1463.9
30°	1469.2	1448.9	1425.6	1399.9	1366.8	1341.5	1333.8
32.5°	1388.6	1343.1	1303.6	1260.8	1225.2	1199.9	1189.3
35°	1232.6	1160.6	1101.9	1050.5	1013.2	989.8	982.0
37.5°	1047.6	977.9	905.2	855.4	824.4	800.8	792.0
40°	929.9	854.0	790.6	743.9	712.0	689.1	688.7
42.5°	822.5	750.1	690.4	656.8	622.4	607.2	607.1
45°	673.5	615.5	564.9	538.5	517.9	505.4	501.9
47.5°	557.6	509.7	476.0	454.9	438.1	430.2	425.0
50°	492.6	450.6	423.7	405.4	396.1	386.0	385.2
52.5°	438.4	404.5	383.6	368.7	356.9	350.8	351.0
55°	368.5	341.6	326.8	315.5	306.2	301.5	299.6
57.5°	310.4	290.3	279.5	269.2	265.2	261.5	260.5
60°	274.3	260.7	250.6	242.4	236.6	235.4	235.0
62.5°	244.4	230.2	223.2	216.9	212.6	210.8	210.1
65°	201.5	191.0	184.8	179.8	178.2	175.5	175.1
67.5°	162.5	156.2	152.1	148.6	146.4	146.3	146.3
70°	138.5	135.0	131.5	129.6	128.4	127.6	127.6
72.5°	118.0	115.4	112.5	111.5	111.3	110.5	110.2
75°	89.9	87.2	87.5	85.6	84.0	82.1	80.9
77.5°	63.7	61.8	61.4	61.2	59.8	59.6	60.2
80°	49.4	47.5	47.1	47.5	47.1	45.9	45.9
82.5°	37.6	36.0	35.6	35.3	34.9	35.3	34.7
85°	20.2	19.5	19.5	19.5	20.2	19.8	19.5
87.5°	9.5	9.3	9.7	9.4	9.5	9.2	9.6
90°	11.8	12.4	12.8	13.0	13.2	13.4	13.6
92.5°	11.4	12.0	12.3	12.4	12.4	12.5	12.5
95°	11.8	12.4	12.7	12.8	12.9	13.0	13.1
97.5°	12.1	12.2	12.3	12.4	12.5	12.6	12.7
100°	14.8	13.1	12.3	12.4	12.5	12.6	12.7
102.5°	40.7	22.2	13.0	13.0	13.0	13.0	13.1
105°	144.1	145.0	143.7	140.0	136.4	132.8	129.2
107.5°	177.6	178.1	178.5	178.9	179.2	179.6	180.0
110°	200.5	200.7	200.9	201.2	201.5	201.8	202.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	222.6	222.5	222.7	223.1	223.5	223.9	224.2
115°	256.2	256.4	256.5	256.5	256.5	256.5	256.5
117.5°	289.6	289.5	289.5	289.4	289.4	289.4	289.3
120°	310.6	310.8	310.8	310.6	310.4	310.2	310.0
122.5°	331.0	331.1	331.1	330.9	330.7	330.5	330.3
125°	359.8	360.1	360.3	360.4	360.5	360.6	360.7
127.5°	387.9	387.9	387.8	387.7	387.6	387.6	387.5
130°	405.5	405.6	405.6	405.6	405.6	405.6	405.6
132.5°	422.5	422.6	422.6	422.5	422.5	422.4	422.3
135°	446.1	446.3	446.5	446.7	446.9	447.1	447.3
137.5°	468.6	468.9	468.9	468.9	468.8	468.8	468.7
140°	482.7	483.0	483.2	483.3	483.4	483.5	483.6
142.5°	495.5	495.7	495.8	495.8	495.9	495.9	495.9
145°	513.8	513.9	514.0	514.2	514.4	514.6	514.8
147.5°	529.9	530.0	530.1	530.2	530.3	530.4	530.5
150°	540.2	540.2	540.3	540.4	540.5	540.6	540.7
152.5°	549.4	549.6	549.6	549.6	549.5	549.4	549.4
155°	561.8	562.2	562.3	562.0	561.7	561.4	561.1
157.5°	572.4	572.9	572.9	572.4	571.9	571.4	570.9
160°	579.2	579.8	579.8	579.2	578.6	578.0	577.4
162.5°	584.6	585.2	585.2	584.5	583.8	583.1	582.5
165°	592.5	593.3	593.2	592.3	591.4	590.5	589.6
167.5°	598.2	599.1	599.0	598.0	597.0	596.0	595.0
170°	601.5	602.4	602.3	601.2	600.2	599.2	598.2
172.5°	603.7	604.5	604.4	603.3	602.2	601.1	600.0
175°	606.4	607.3	607.1	605.9	604.7	603.5	602.3
177.5°	607.1	607.8	607.6	606.7	605.7	604.7	603.8
180°	605.9	605.9	605.9	605.9	605.9	605.9	605.9

(END OF REPORT)