

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: P333036-930

Luminaire Tested: **S124RDIW-S575D470U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333036-930
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: S124RDIW-S575D470U930-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3316.9 lumens
Efficiency: N/A
Efficacy: 109.8 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: Semi-Direct

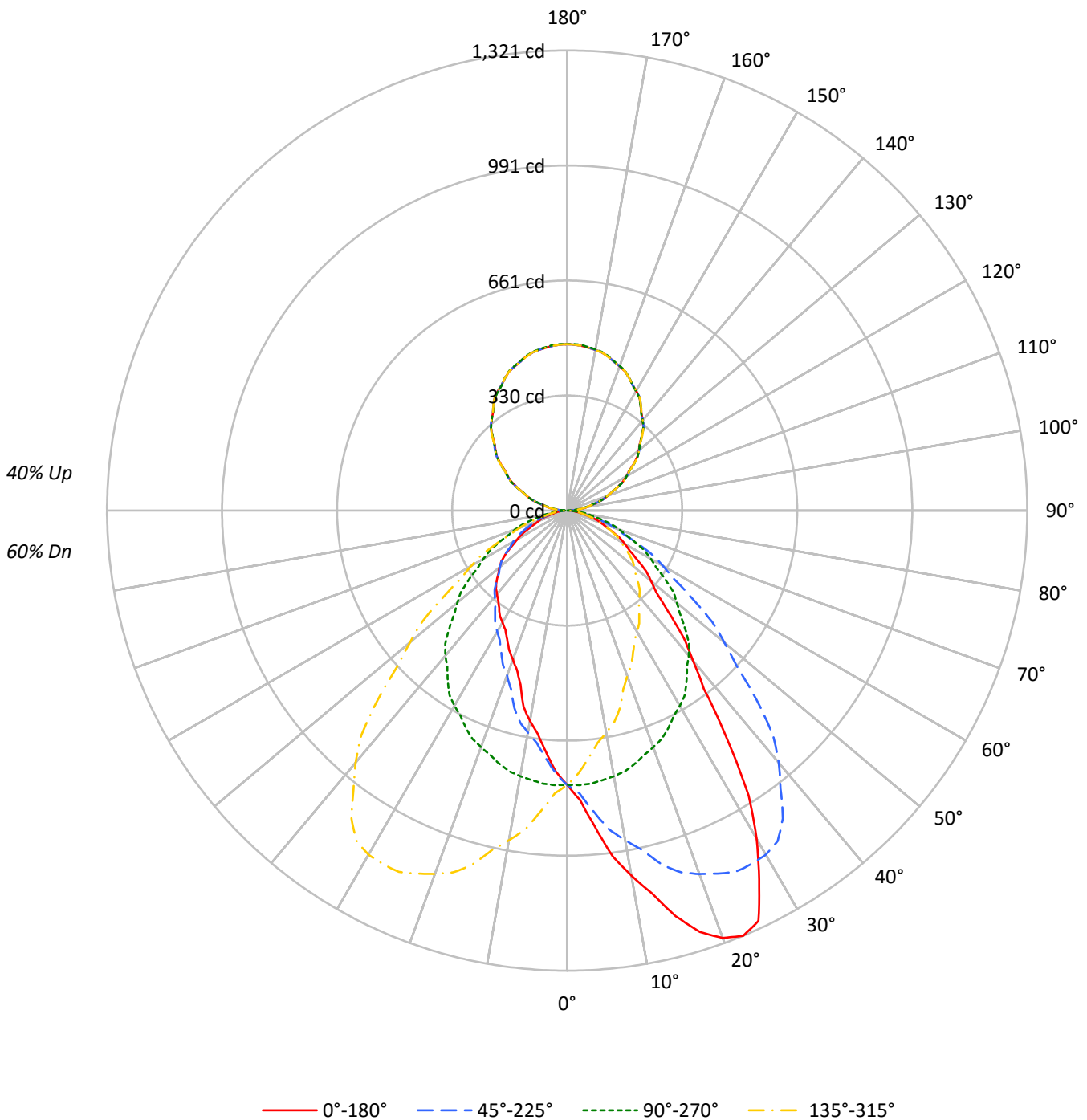
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	101	96	93	89	94	90	87	84	79	76	74	68	67	65	59	57	56	52
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	52	50	48	44
3	84	75	68	62	79	71	64	59	62	57	53	54	50	47	47	44	42	38
4	77	67	59	53	72	63	56	51	55	50	46	49	44	41	42	39	36	33
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	35	32	29
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	35	31	28	26
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25	23
8	57	44	37	31	53	42	35	30	38	32	28	33	29	25	29	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	23	21	19
10	49	37	30	25	46	36	29	24	32	26	23	28	24	21	25	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6356	6356	6356	6356
5°	7373	6375	5635	6375
10°	8722	6347	5029	6347
15°	10074	6288	4322	6288
20°	11217	6208	3908	6208
25°	11580	6128	3628	6128
30°	10137	6032	3459	6032
35°	7890	5889	3358	5889
40°	5917	5727	3303	5727
45°	4672	5465	3273	5465
50°	3945	5163	3180	5163
55°	3438	4830	3009	4830
60°	3094	4487	2662	4487
65°	2728	4115	2290	4115
70°	2455	3729	2068	3729
75°	2059	3306	1762	3306
80°	1739	2817	1650	2817
85°	1473	2205	1473	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	2.3
10°-20°	230.1	6.9
20°-30°	359.9	10.9
30°-40°	400.1	12.1
40°-50°	355.0	10.7
50°-60°	276.6	8.3
60°-70°	181.1	5.5
70°-80°	89.1	2.7
80°-90°	23.4	0.7
90°-100°	31.5	0.9
100°-110°	93.3	2.8
110°-120°	158.4	4.8
120°-130°	208.9	6.3
130°-140°	234.6	7.1
140°-150°	230.5	6.9
150°-160°	193.9	5.8
160°-170°	129.0	3.9
170°-180°	45.2	1.4
0°-30°	666.3	20.1
0°-40°	1066.4	32.2
0°-60°	1698.1	51.2
0°-90°	1991.6	60.0
90°-120°	283.3	8.5
90°-150°	957.2	28.9
90°-180°	1325.0	39.9
0°-180°	3316.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	787	787	787	787	787	
5°	910	787	695	787	910	92
15°	1205	752	517	752	1205	343
25°	1300	688	407	688	1300	577
35°	801	598	341	598	801	502
45°	409	479	287	479	409	324
55°	244	343	214	343	244	222
65°	143	215	120	215	143	144
75°	66	106	56	106	66	73
85°	16	24	16	24	16	18
90°	11	1	11	1	11	6
95°	29	22	29	22	29	30
105°	90	86	90	86	90	95
115°	160	161	160	161	160	158
125°	233	235	233	235	233	208
135°	303	303	303	303	303	234
145°	368	368	368	368	368	230
155°	421	421	421	421	421	194
165°	457	458	457	458	457	129
175°	475	477	475	477	475	45
180°	478	478	478	478	478	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	830.5	832.7	830.5	830.2	827.7	827.0	825.9	822.6	816.5	812.9	813.8
5°	909.8	917.7	913.3	912.6	905.6	898.7	894.2	884.1	873.3	866.0	860.0
7.5°	1001.5	1006.1	1003.3	998.8	987.6	981.1	970.9	957.5	938.2	923.3	909.9
10°	1064.0	1067.7	1066.5	1058.3	1050.0	1033.1	1023.7	1004.9	980.5	961.2	943.1
12.5°	1125.4	1129.4	1118.3	1118.7	1103.0	1089.7	1074.6	1051.2	1022.9	997.9	975.3
15°	1205.4	1200.4	1200.4	1194.0	1176.6	1158.1	1142.6	1117.9	1082.3	1052.6	1021.2
17.5°	1268.1	1269.9	1267.3	1252.3	1238.6	1219.6	1191.1	1162.2	1129.2	1089.2	1057.1
20°	1305.7	1305.7	1302.8	1292.7	1274.9	1254.6	1223.8	1192.5	1150.6	1110.3	1074.1
22.5°	1320.9	1321.9	1318.6	1310.2	1294.2	1274.4	1248.2	1216.3	1173.1	1127.8	1083.0
25°	1300.0	1305.9	1306.6	1304.4	1299.7	1287.6	1265.1	1232.4	1193.7	1144.5	1096.3
27.5°	1193.5	1201.1	1207.8	1218.7	1233.3	1241.0	1241.9	1225.3	1191.6	1144.3	1095.8
30°	1087.4	1093.7	1114.4	1141.3	1162.3	1181.3	1197.8	1202.2	1183.2	1140.7	1089.6
32.5°	969.6	978.3	998.9	1027.9	1062.8	1095.0	1132.1	1151.0	1150.5	1124.9	1077.7
35°	800.6	807.0	826.1	856.5	898.4	946.2	1004.9	1050.6	1081.7	1079.5	1050.6
37.5°	645.7	652.9	672.1	697.4	738.0	797.3	854.1	917.0	974.5	1006.8	997.1
40°	561.5	561.8	580.5	606.5	644.6	696.3	758.1	827.9	892.0	944.4	954.5
42.5°	495.0	495.0	507.4	535.5	562.9	611.6	670.6	739.9	814.9	875.3	902.2
45°	409.2	412.1	422.2	439.0	460.6	501.8	549.1	613.5	697.6	769.2	814.0
47.5°	346.5	350.7	357.2	370.9	388.1	415.6	454.6	512.5	580.9	659.7	723.4
50°	314.1	314.7	322.9	330.5	345.4	367.4	401.6	449.8	512.7	588.4	659.2
52.5°	286.2	286.0	291.0	300.6	312.7	329.8	357.4	401.4	457.1	525.0	598.0
55°	244.3	245.8	249.6	257.2	266.4	278.5	300.4	333.4	377.2	435.2	501.5
57.5°	212.4	213.2	216.2	219.5	227.9	236.7	253.1	276.0	312.9	360.4	422.2
60°	191.6	191.9	192.9	197.6	204.3	212.5	223.6	243.0	274.1	317.6	366.4
62.5°	171.3	171.9	173.3	176.8	182.0	187.7	199.3	214.8	240.6	277.7	321.7
65°	142.8	143.1	145.3	146.6	150.7	155.7	164.3	174.8	192.6	223.6	257.0
67.5°	119.3	119.3	119.4	121.2	124.0	127.3	132.5	140.9	154.3	173.3	202.7
70°	104.0	104.0	104.7	105.7	107.2	110.1	112.9	119.3	129.1	144.6	167.1
72.5°	89.8	90.1	90.7	90.9	91.7	94.1	96.2	100.2	107.5	119.3	137.5
75°	66.0	66.9	68.5	69.8	71.3	71.1	73.3	75.8	78.0	85.0	95.5
77.5°	49.1	48.6	48.8	49.9	50.1	50.4	51.9	53.9	55.6	58.9	62.6
80°	37.4	37.4	38.4	38.7	38.4	38.7	40.3	41.3	41.9	43.1	46.6
82.5°	28.3	28.8	28.5	28.8	29.0	29.4	30.7	30.8	31.5	32.0	33.4
85°	15.9	16.1	16.5	15.9	15.9	15.9	16.5	16.8	17.4	17.1	17.8
87.5°	7.8	7.5	7.7	7.7	7.9	7.6	7.7	8.2	7.6	7.7	7.6
90°	11.1	10.9	10.8	10.6	10.4	10.1	9.6	9.1	8.6	8.2	7.5
92.5°	16.4	16.3	16.2	16.1	16.0	15.8	15.5	15.2	14.9	14.6	14.2
95°	29.2	29.2	29.2	29.2	29.2	29.0	28.8	28.5	28.3	28.0	27.5
97.5°	45.7	45.7	45.7	45.7	45.7	45.6	45.3	45.0	44.7	44.4	43.7
100°	57.2	57.2	57.2	57.2	57.2	57.2	57.0	56.8	56.7	56.5	55.8
102.5°	70.3	70.2	70.1	70.0	70.0	69.9	69.6	69.4	69.1	69.0	68.2
105°	90.2	89.9	89.7	89.4	89.2	88.9	88.7	88.5	88.1	87.9	87.6
107.5°	109.5	109.5	109.6	109.6	109.6	109.5	109.3	109.0	108.8	108.5	108.5
110°	123.4	123.1	122.9	122.6	122.4	122.4	122.5	122.7	122.9	123.0	123.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	137.5	137.5	137.5	137.5	137.4	137.4	137.4	137.5	137.5	137.5	137.6
115°	159.6	159.7	159.8	159.9	160.0	160.0	160.1	160.2	160.3	160.4	160.5
117.5°	180.6	180.8	180.9	181.1	181.2	181.5	181.7	182.1	182.3	182.5	182.7
120°	196.6	196.4	196.2	196.1	195.9	196.0	196.4	196.8	197.2	197.6	197.9
122.5°	209.9	210.1	210.4	210.8	211.0	211.3	211.6	211.9	212.1	212.5	212.5
125°	232.8	232.9	233.1	233.3	233.4	233.6	233.7	233.9	234.1	234.2	234.3
127.5°	254.0	254.1	254.2	254.4	254.5	254.6	254.8	254.9	255.1	255.3	255.4
130°	267.8	268.2	268.5	268.8	269.1	269.4	269.5	269.7	269.9	270.0	270.0
132.5°	282.7	282.7	282.9	283.0	283.2	283.3	283.5	283.6	283.8	284.0	284.1
135°	303.0	303.2	303.5	303.7	303.9	304.1	304.3	304.4	304.6	304.8	304.8
137.5°	324.3	324.2	324.2	324.2	324.1	324.2	324.4	324.6	324.8	325.1	324.9
140°	337.3	337.4	337.5	337.5	337.6	337.7	337.8	337.9	337.9	338.0	338.0
142.5°	350.3	350.3	350.3	350.3	350.3	350.4	350.4	350.4	350.4	350.4	350.5
145°	367.9	368.2	368.4	368.7	368.9	369.1	369.2	369.2	369.3	369.4	369.3
147.5°	385.9	386.0	386.0	386.1	386.2	386.3	386.3	386.4	386.5	386.5	386.6
150°	396.8	396.9	397.0	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
152.5°	406.8	407.1	407.2	407.5	407.6	407.7	407.5	407.3	407.1	406.9	406.8
155°	420.8	421.1	421.4	421.8	422.1	422.1	421.8	421.4	421.1	420.8	420.9
157.5°	433.3	433.6	433.8	434.1	434.4	434.4	434.1	433.9	433.7	433.4	433.4
160°	440.3	440.8	441.2	441.6	442.1	442.1	441.9	441.6	441.4	441.2	441.2
162.5°	447.8	448.2	448.6	449.0	449.4	449.4	449.0	448.5	448.1	447.6	447.7
165°	457.4	457.7	458.0	458.4	458.7	458.6	458.1	457.6	457.1	456.6	456.8
167.5°	464.2	464.7	465.3	465.8	466.3	466.3	465.8	465.3	464.8	464.3	464.3
170°	468.1	468.6	469.2	469.8	470.3	470.4	469.9	469.4	469.0	468.5	468.4
172.5°	471.3	471.9	472.5	473.0	473.6	473.6	473.1	472.5	472.0	471.4	471.4
175°	474.7	475.3	475.9	476.5	477.0	477.0	476.5	475.9	475.3	474.7	474.8
177.5°	476.5	477.0	477.6	478.1	478.6	478.7	478.2	477.8	477.3	476.8	476.8
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	811.2	807.6	805.8	801.8	797.0	794.4	792.1	788.9	784.6	780.0	776.7
5°	852.4	844.7	835.2	823.8	813.7	803.8	795.2	786.7	776.9	766.7	756.6
7.5°	894.6	879.6	863.5	844.7	826.6	810.0	794.8	780.2	763.7	748.9	735.4
10°	924.1	903.8	881.3	857.5	833.6	813.0	792.7	774.3	754.0	736.0	720.7
12.5°	947.9	924.1	897.0	867.3	838.7	813.8	790.4	766.5	743.4	723.7	703.4
15°	987.5	954.8	918.4	882.8	845.7	811.8	780.3	752.4	726.1	698.5	679.1
17.5°	1014.7	975.9	931.6	888.9	845.1	805.0	768.8	735.6	705.2	677.0	654.0
20°	1030.9	988.1	939.0	890.4	841.2	798.4	759.5	722.6	691.2	660.8	637.0
22.5°	1040.1	992.7	939.0	888.1	837.2	790.8	748.0	709.7	675.5	645.1	618.7
25°	1043.0	992.2	937.3	879.0	823.2	774.0	729.6	688.0	650.0	619.5	591.6
27.5°	1038.9	979.2	923.0	863.1	805.5	753.7	707.0	663.3	625.3	592.6	563.9
30°	1032.8	968.8	908.5	846.4	788.0	738.2	689.0	647.1	607.5	573.6	544.7
32.5°	1019.7	956.1	891.3	827.5	768.4	717.1	670.5	628.4	589.5	554.7	524.1
35°	993.5	929.1	858.7	793.4	735.3	682.0	638.2	597.6	560.5	523.4	491.1
37.5°	959.0	893.3	823.2	751.7	693.6	643.3	603.1	565.0	528.7	494.9	459.0
40°	926.6	866.7	794.3	723.3	663.7	615.1	578.0	543.4	507.0	473.3	437.4
42.5°	887.3	836.2	763.1	691.8	632.9	586.1	551.5	517.8	484.6	452.0	414.6
45°	821.6	782.9	714.4	645.9	586.5	540.2	508.5	478.7	449.5	418.4	383.2
47.5°	746.3	720.2	661.0	590.8	536.0	494.3	463.7	439.3	414.6	383.5	352.6
50°	694.1	677.3	620.2	556.1	503.8	465.4	434.0	411.1	390.5	360.7	333.0
52.5°	638.2	629.3	581.1	519.8	469.2	431.6	404.8	384.3	363.4	338.6	312.7
55°	553.3	558.0	517.1	464.1	416.5	384.8	360.4	343.2	325.5	304.5	284.5
57.5°	466.3	483.7	456.2	409.7	365.1	335.8	317.4	303.0	288.1	270.7	253.6
60°	414.3	428.8	413.4	372.4	333.4	306.1	289.0	277.9	262.9	247.1	234.1
62.5°	363.5	379.1	369.9	336.9	300.7	277.2	262.1	251.8	240.7	226.8	213.3
65°	299.8	309.9	305.5	282.7	257.0	236.9	223.0	215.4	205.2	195.1	183.0
67.5°	229.6	249.2	246.6	234.5	212.3	196.7	187.5	180.8	171.5	164.0	155.8
70°	188.7	206.8	206.5	196.7	184.6	170.0	163.7	158.0	149.7	142.4	135.7
72.5°	154.5	171.0	173.5	166.0	157.8	146.7	140.6	136.6	128.7	123.7	118.2
75°	108.2	120.3	123.4	123.4	119.6	113.9	108.5	106.0	100.2	95.8	92.6
77.5°	70.9	78.5	83.5	84.6	85.2	83.3	78.8	77.0	72.7	71.1	68.1
80°	50.1	55.2	60.9	62.8	64.4	63.8	61.9	60.6	56.5	54.9	53.6
82.5°	34.7	37.4	42.2	46.3	45.9	47.5	45.9	44.8	41.7	41.2	39.9
85°	18.1	18.4	19.0	21.9	23.5	24.1	24.5	23.8	22.8	22.8	20.6
87.5°	7.4	7.1	7.4	7.3	7.3	8.2	8.8	8.9	8.2	7.7	7.1
90°	6.8	6.2	5.5	4.7	3.8	2.9	2.0	1.1	2.0	2.9	3.8
92.5°	13.7	13.3	12.8	12.1	11.0	9.9	9.0	7.9	9.0	9.9	11.0
95°	26.9	26.3	25.8	25.1	24.4	23.6	22.9	22.2	22.9	23.6	24.4
97.5°	43.0	42.4	41.7	41.1	40.5	39.9	39.3	38.7	39.3	39.9	40.5
100°	55.0	54.3	53.6	53.1	52.7	52.3	52.0	51.7	52.0	52.3	52.7
102.5°	67.6	66.9	66.3	65.9	65.7	65.6	65.5	65.3	65.5	65.6	65.7
105°	87.2	86.9	86.6	86.4	86.3	86.3	86.2	86.1	86.2	86.3	86.3
107.5°	108.4	108.4	108.4	108.3	108.2	108.1	107.9	107.9	107.9	108.1	108.2
110°	123.2	123.3	123.4	123.3	123.1	122.9	122.8	122.6	122.8	122.9	123.1



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	137.8	137.9	138.1	138.2	138.1	138.1	138.0	138.0	138.0	138.1	138.1
115°	160.7	160.9	161.0	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1
117.5°	182.8	183.0	183.0	183.0	183.0	183.0	182.9	182.8	182.9	183.0	183.0
120°	198.1	198.4	198.6	198.6	198.3	198.0	197.6	197.3	197.6	198.0	198.3
122.5°	212.6	212.8	212.9	212.9	212.7	212.6	212.5	212.4	212.5	212.6	212.7
125°	234.4	234.5	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6
127.5°	255.5	255.7	255.8	255.8	255.5	255.3	255.0	254.8	255.0	255.3	255.5
130°	270.0	270.0	270.0	269.9	269.7	269.5	269.2	269.0	269.2	269.5	269.7
132.5°	284.1	284.1	284.2	284.1	284.0	283.8	283.6	283.4	283.6	283.8	284.0
135°	304.8	304.8	304.8	304.5	304.0	303.5	303.0	302.6	303.0	303.5	304.0
137.5°	324.8	324.7	324.5	324.3	324.1	323.8	323.7	323.4	323.7	323.8	324.1
140°	338.0	338.0	338.0	337.9	337.8	337.6	337.5	337.3	337.5	337.6	337.8
142.5°	350.6	350.7	350.7	350.7	350.5	350.3	350.2	350.0	350.2	350.3	350.5
145°	369.2	369.2	369.1	368.9	368.6	368.3	367.9	367.6	367.9	368.3	368.6
147.5°	386.6	386.7	386.8	386.6	386.2	385.8	385.4	385.1	385.4	385.8	386.2
150°	397.1	397.1	397.1	397.0	396.6	396.3	396.0	395.7	396.0	396.3	396.6
152.5°	406.8	406.7	406.7	406.5	406.3	406.1	405.9	405.7	405.9	406.1	406.3
155°	420.9	421.0	421.1	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2
157.5°	433.5	433.5	433.5	433.6	433.7	433.9	434.0	434.1	434.0	433.9	433.7
160°	441.3	441.4	441.5	441.6	441.6	441.7	441.8	441.9	441.8	441.7	441.6
162.5°	447.8	447.8	447.9	448.1	448.3	448.5	448.7	449.0	448.7	448.5	448.3
165°	457.0	457.1	457.3	457.5	457.7	458.0	458.2	458.4	458.2	458.0	457.7
167.5°	464.3	464.2	464.2	464.4	464.8	465.1	465.5	465.8	465.5	465.1	464.8
170°	468.3	468.2	468.1	468.3	468.7	469.1	469.5	469.9	469.5	469.1	468.7
172.5°	471.4	471.3	471.3	471.5	471.9	472.2	472.5	472.9	472.5	472.2	471.9
175°	474.9	475.0	475.1	475.3	475.7	476.1	476.5	477.0	476.5	476.1	475.7
177.5°	476.8	476.8	476.8	477.0	477.3	477.6	477.9	478.3	477.9	477.6	477.3
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	773.1	770.6	767.3	763.4	758.9	754.9	753.1	754.6	755.4	753.3	753.1
5°	749.6	741.7	735.3	725.8	718.2	711.8	707.4	705.5	706.1	701.1	699.8
7.5°	723.1	713.7	703.4	692.0	681.5	672.2	667.3	664.6	659.3	657.0	653.1
10°	706.1	693.4	683.3	669.9	657.9	646.8	641.4	637.0	631.6	629.0	623.6
12.5°	688.6	673.9	662.8	648.9	636.6	623.2	618.1	609.8	601.4	596.1	589.1
15°	663.9	646.2	632.5	616.0	601.4	586.2	572.6	557.3	551.6	539.6	532.6
17.5°	635.0	617.0	600.1	578.0	555.5	536.6	522.0	507.5	498.7	491.1	487.5
20°	616.0	599.6	576.1	550.4	525.3	504.3	492.6	483.1	473.6	468.2	464.4
22.5°	598.0	577.0	549.7	522.0	496.9	480.5	470.6	460.8	453.1	447.9	442.9
25°	567.9	540.2	511.4	479.6	462.5	448.3	437.4	429.5	424.8	418.1	415.6
27.5°	536.8	503.4	471.5	450.2	432.4	419.3	409.9	404.0	397.9	393.6	390.4
30°	512.9	479.0	450.5	430.2	412.1	401.3	393.6	386.7	382.0	378.5	375.9
32.5°	489.3	455.4	431.4	409.6	395.3	384.8	376.7	371.5	367.7	363.2	361.7
35°	455.2	425.1	404.1	384.5	369.9	360.4	354.0	348.6	345.4	344.2	343.2
37.5°	422.4	397.7	375.2	359.1	346.1	338.6	331.1	328.5	326.3	324.0	325.1
40°	401.6	378.5	358.5	341.4	330.8	322.6	318.1	315.0	313.1	313.1	313.1
42.5°	383.6	360.9	341.4	326.1	315.6	308.7	303.7	301.0	300.4	300.1	301.7
45°	355.6	334.7	315.0	302.3	293.4	286.4	283.6	281.4	281.4	282.7	283.0
47.5°	327.9	308.3	292.4	278.3	270.1	265.8	263.3	262.1	262.3	263.5	265.0
50°	310.9	291.6	276.0	263.3	255.7	251.5	249.3	248.7	249.3	249.3	251.5
52.5°	292.4	275.0	259.8	249.1	240.4	236.6	235.4	234.5	234.9	235.9	236.8
55°	265.2	249.6	235.1	224.9	218.6	216.1	213.2	213.5	212.9	213.5	213.5
57.5°	238.0	224.0	210.4	202.4	196.8	193.1	190.0	190.9	190.0	189.8	189.3
60°	220.5	205.2	194.4	187.2	180.8	177.7	174.8	175.5	174.5	173.8	172.6
62.5°	201.5	188.7	178.5	171.5	166.3	162.7	159.8	159.1	156.9	154.8	152.0
65°	173.8	163.4	154.2	147.5	142.8	139.9	137.7	135.7	131.0	126.0	123.4
67.5°	147.0	139.4	130.9	125.2	121.4	117.6	113.4	110.1	105.7	102.9	101.3
70°	129.7	122.5	115.1	109.7	105.7	102.2	97.3	95.1	92.0	90.7	89.1
72.5°	113.2	106.5	99.6	94.8	90.4	87.6	84.0	81.7	80.3	79.8	78.2
75°	88.2	82.8	77.7	73.3	69.8	67.9	66.3	64.7	64.1	61.2	59.6
77.5°	64.3	60.7	57.6	54.5	51.9	50.7	47.6	45.8	44.8	43.4	43.0
80°	50.1	47.6	44.4	42.5	39.1	37.7	36.4	36.2	35.9	35.5	35.2
82.5°	37.7	35.1	32.0	30.8	29.9	29.1	28.4	28.0	27.7	27.9	27.9
85°	19.0	17.8	17.8	17.4	17.1	16.8	16.5	16.5	16.1	16.5	16.1
87.5°	7.3	7.2	7.3	6.9	7.3	7.5	7.3	7.4	7.7	7.3	7.4
90°	4.7	5.5	6.2	6.8	7.5	8.2	8.6	9.1	9.6	10.1	10.4
92.5°	12.1	12.8	13.3	13.7	14.2	14.6	14.9	15.2	15.5	15.8	16.0
95°	25.1	25.8	26.3	26.9	27.5	28.0	28.3	28.5	28.8	29.0	29.2
97.5°	41.1	41.7	42.4	43.0	43.7	44.4	44.7	45.0	45.3	45.6	45.7
100°	53.1	53.6	54.3	55.0	55.8	56.5	56.7	56.8	57.0	57.2	57.2
102.5°	65.9	66.3	66.9	67.6	68.2	69.0	69.1	69.4	69.6	69.9	70.0
105°	86.4	86.6	86.9	87.2	87.6	87.9	88.1	88.5	88.7	88.9	89.2
107.5°	108.3	108.4	108.4	108.4	108.5	108.5	108.8	109.0	109.3	109.5	109.6
110°	123.3	123.4	123.3	123.2	123.1	123.0	122.9	122.7	122.5	122.4	122.4



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	138.2	138.1	137.9	137.8	137.6	137.5	137.5	137.5	137.4	137.4	137.4
115°	161.1	161.0	160.9	160.7	160.5	160.4	160.3	160.2	160.1	160.0	160.0
117.5°	183.0	183.0	183.0	182.8	182.7	182.5	182.3	182.1	181.7	181.5	181.2
120°	198.6	198.6	198.4	198.1	197.9	197.6	197.2	196.8	196.4	196.0	195.9
122.5°	212.9	212.9	212.8	212.6	212.5	212.5	212.1	211.9	211.6	211.3	211.0
125°	234.6	234.6	234.5	234.4	234.3	234.2	234.1	233.9	233.7	233.6	233.4
127.5°	255.8	255.8	255.7	255.5	255.4	255.3	255.1	254.9	254.8	254.6	254.5
130°	269.9	270.0	270.0	270.0	270.0	270.0	269.9	269.7	269.5	269.4	269.1
132.5°	284.1	284.2	284.1	284.1	284.1	284.0	283.8	283.6	283.5	283.3	283.2
135°	304.5	304.8	304.8	304.8	304.8	304.8	304.6	304.4	304.3	304.1	303.9
137.5°	324.3	324.5	324.7	324.8	324.9	325.1	324.8	324.6	324.4	324.2	324.1
140°	337.9	338.0	338.0	338.0	338.0	338.0	337.9	337.9	337.8	337.7	337.6
142.5°	350.7	350.7	350.7	350.6	350.5	350.4	350.4	350.4	350.4	350.4	350.3
145°	368.9	369.1	369.2	369.2	369.3	369.4	369.3	369.2	369.2	369.1	368.9
147.5°	386.6	386.8	386.7	386.6	386.6	386.5	386.5	386.4	386.3	386.3	386.2
150°	397.0	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
152.5°	406.5	406.7	406.7	406.8	406.8	406.9	407.1	407.3	407.5	407.7	407.6
155°	421.2	421.1	421.0	420.9	420.9	420.8	421.1	421.4	421.8	422.1	422.1
157.5°	433.6	433.5	433.5	433.5	433.4	433.4	433.7	433.9	434.1	434.4	434.4
160°	441.6	441.5	441.4	441.3	441.2	441.2	441.4	441.6	441.9	442.1	442.1
162.5°	448.1	447.9	447.8	447.8	447.7	447.6	448.1	448.5	449.0	449.4	449.4
165°	457.5	457.3	457.1	457.0	456.8	456.6	457.1	457.6	458.1	458.6	458.7
167.5°	464.4	464.2	464.2	464.3	464.3	464.3	464.8	465.3	465.8	466.3	466.3
170°	468.3	468.1	468.2	468.3	468.4	468.5	469.0	469.4	469.9	470.4	470.3
172.5°	471.5	471.3	471.3	471.4	471.4	471.4	472.0	472.5	473.1	473.6	473.6
175°	475.3	475.1	475.0	474.9	474.8	474.7	475.3	475.9	476.5	477.0	477.0
177.5°	477.0	476.8	476.8	476.8	476.8	476.8	477.3	477.8	478.2	478.7	478.6
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	751.5	752.0	750.3	749.7	750.3	752.0	751.5	753.1	753.3	755.4	754.6
5°	697.2	696.6	695.0	695.4	695.0	696.6	697.2	699.8	701.1	706.1	705.5
7.5°	650.8	648.3	649.1	646.5	649.1	648.3	650.8	653.1	657.0	659.3	664.6
10°	622.4	618.9	616.0	613.5	616.0	618.9	622.4	623.6	629.0	631.6	637.0
12.5°	583.6	580.6	576.7	577.5	576.7	580.6	583.6	589.1	596.1	601.4	609.8
15°	528.5	523.7	516.1	517.1	516.1	523.7	528.5	532.6	539.6	551.6	557.3
17.5°	481.8	481.9	478.4	479.2	478.4	481.9	481.8	487.5	491.1	498.7	507.5
20°	457.7	455.5	455.8	454.9	455.8	455.5	457.7	464.4	468.2	473.6	483.1
22.5°	441.0	438.3	436.0	434.1	436.0	438.3	441.0	442.9	447.9	453.1	460.8
25°	412.7	410.8	408.0	407.3	408.0	410.8	412.7	415.6	418.1	424.8	429.5
27.5°	387.8	387.4	386.3	384.8	386.3	387.4	387.8	390.4	393.6	397.9	404.0
30°	373.3	372.8	372.1	371.1	372.1	372.8	373.3	375.9	378.5	382.0	386.7
32.5°	360.4	360.0	359.4	359.5	359.4	360.0	360.4	361.7	363.2	367.7	371.5
35°	341.9	341.6	341.0	340.7	341.0	341.6	341.9	343.2	344.2	345.4	348.6
37.5°	324.7	325.5	325.1	325.1	325.1	325.5	324.7	325.1	324.0	326.3	328.5
40°	312.7	313.1	313.7	313.4	313.7	313.1	312.7	313.1	313.1	313.1	315.0
42.5°	302.9	303.0	303.9	302.7	303.9	303.0	302.9	301.7	300.1	300.4	301.0
45°	285.2	287.1	286.7	286.7	286.7	287.1	285.2	283.0	282.7	281.4	281.4
47.5°	265.8	267.5	267.9	267.8	267.9	267.5	265.8	265.0	263.5	262.3	262.1
50°	253.2	252.5	253.5	253.2	253.5	252.5	253.2	251.5	249.3	249.3	248.7
52.5°	237.7	237.8	237.7	237.4	237.7	237.8	237.7	236.8	235.9	234.9	234.5
55°	213.8	214.1	213.5	213.8	213.5	214.1	213.8	213.5	213.5	212.9	213.5
57.5°	187.9	186.4	187.0	186.3	187.0	186.4	187.9	189.3	189.8	190.0	190.9
60°	169.4	166.9	166.2	164.9	166.2	166.9	169.4	172.6	173.8	174.5	175.5
62.5°	148.5	146.8	144.6	145.7	144.6	146.8	148.5	152.0	154.8	156.9	159.1
65°	120.8	119.6	118.6	119.9	118.6	119.6	120.8	123.4	126.0	131.0	135.7
67.5°	100.0	99.4	99.4	98.7	99.4	99.4	100.0	101.3	102.9	105.7	110.1
70°	89.1	88.2	88.2	87.6	88.2	88.2	89.1	89.1	90.7	92.0	95.1
72.5°	77.9	77.0	77.3	76.9	77.3	77.0	77.9	78.2	79.8	80.3	81.7
75°	57.7	56.2	56.2	56.5	56.2	56.2	57.7	59.6	61.2	64.1	64.7
77.5°	43.0	42.7	43.2	42.6	43.2	42.7	43.0	43.0	43.4	44.8	45.8
80°	35.2	34.9	34.6	35.5	34.6	34.9	35.2	35.2	35.5	35.9	36.2
82.5°	27.3	27.3	27.2	28.5	27.2	27.3	27.3	27.9	27.9	27.7	28.0
85°	16.5	15.9	16.5	15.9	16.5	15.9	16.5	16.1	16.5	16.1	16.5
87.5°	8.0	7.7	7.5	7.8	7.5	7.7	8.0	7.4	7.3	7.7	7.4
90°	10.6	10.8	10.9	11.1	10.9	10.8	10.6	10.4	10.1	9.6	9.1
92.5°	16.1	16.2	16.3	16.4	16.3	16.2	16.1	16.0	15.8	15.5	15.2
95°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.0	28.8	28.5
97.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.6	45.3	45.0
100°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.0	56.8
102.5°	70.0	70.1	70.2	70.3	70.2	70.1	70.0	70.0	69.9	69.6	69.4
105°	89.4	89.7	89.9	90.2	89.9	89.7	89.4	89.2	88.9	88.7	88.5
107.5°	109.6	109.6	109.5	109.5	109.5	109.6	109.6	109.6	109.5	109.3	109.0
110°	122.6	122.9	123.1	123.4	123.1	122.9	122.6	122.4	122.4	122.5	122.7



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	137.5	137.5	137.5	137.5	137.5	137.5	137.5	137.4	137.4	137.4	137.5
115°	159.9	159.8	159.7	159.6	159.7	159.8	159.9	160.0	160.0	160.1	160.2
117.5°	181.1	180.9	180.8	180.6	180.8	180.9	181.1	181.2	181.5	181.7	182.1
120°	196.1	196.2	196.4	196.6	196.4	196.2	196.1	195.9	196.0	196.4	196.8
122.5°	210.8	210.4	210.1	209.9	210.1	210.4	210.8	211.0	211.3	211.6	211.9
125°	233.3	233.1	232.9	232.8	232.9	233.1	233.3	233.4	233.6	233.7	233.9
127.5°	254.4	254.2	254.1	254.0	254.1	254.2	254.4	254.5	254.6	254.8	254.9
130°	268.8	268.5	268.2	267.8	268.2	268.5	268.8	269.1	269.4	269.5	269.7
132.5°	283.0	282.9	282.7	282.7	282.7	282.9	283.0	283.2	283.3	283.5	283.6
135°	303.7	303.5	303.2	303.0	303.2	303.5	303.7	303.9	304.1	304.3	304.4
137.5°	324.2	324.2	324.2	324.3	324.2	324.2	324.2	324.1	324.2	324.4	324.6
140°	337.5	337.5	337.4	337.3	337.4	337.5	337.5	337.6	337.7	337.8	337.9
142.5°	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.4	350.4	350.4
145°	368.7	368.4	368.2	367.9	368.2	368.4	368.7	368.9	369.1	369.2	369.2
147.5°	386.1	386.0	386.0	385.9	386.0	386.0	386.1	386.2	386.3	386.3	386.4
150°	397.1	397.0	396.9	396.8	396.9	397.0	397.1	397.1	397.1	397.1	397.1
152.5°	407.5	407.2	407.1	406.8	407.1	407.2	407.5	407.6	407.7	407.5	407.3
155°	421.8	421.4	421.1	420.8	421.1	421.4	421.8	422.1	422.1	421.8	421.4
157.5°	434.1	433.8	433.6	433.3	433.6	433.8	434.1	434.4	434.4	434.1	433.9
160°	441.6	441.2	440.8	440.3	440.8	441.2	441.6	442.1	442.1	441.9	441.6
162.5°	449.0	448.6	448.2	447.8	448.2	448.6	449.0	449.4	449.4	449.0	448.5
165°	458.4	458.0	457.7	457.4	457.7	458.0	458.4	458.7	458.6	458.1	457.6
167.5°	465.8	465.3	464.7	464.2	464.7	465.3	465.8	466.3	466.3	465.8	465.3
170°	469.8	469.2	468.6	468.1	468.6	469.2	469.8	470.3	470.4	469.9	469.4
172.5°	473.0	472.5	471.9	471.3	471.9	472.5	473.0	473.6	473.6	473.1	472.5
175°	476.5	475.9	475.3	474.7	475.3	475.9	476.5	477.0	477.0	476.5	475.9
177.5°	478.1	477.6	477.0	476.5	477.0	477.6	478.1	478.6	478.7	478.2	477.8
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	753.1	754.9	758.9	763.4	767.3	770.6	773.1	776.7	780.0	784.6	788.9
5°	707.4	711.8	718.2	725.8	735.3	741.7	749.6	756.6	766.7	776.9	786.7
7.5°	667.3	672.2	681.5	692.0	703.4	713.7	723.1	735.4	748.9	763.7	780.2
10°	641.4	646.8	657.9	669.9	683.3	693.4	706.1	720.7	736.0	754.0	774.3
12.5°	618.1	623.2	636.6	648.9	662.8	673.9	688.6	703.4	723.7	743.4	766.5
15°	572.6	586.2	601.4	616.0	632.5	646.2	663.9	679.1	698.5	726.1	752.4
17.5°	522.0	536.6	555.5	578.0	600.1	617.0	635.0	654.0	677.0	705.2	735.6
20°	492.6	504.3	525.3	550.4	576.1	599.6	616.0	637.0	660.8	691.2	722.6
22.5°	470.6	480.5	496.9	522.0	549.7	577.0	598.0	618.7	645.1	675.5	709.7
25°	437.4	448.3	462.5	479.6	511.4	540.2	567.9	591.6	619.5	650.0	688.0
27.5°	409.9	419.3	432.4	450.2	471.5	503.4	536.8	563.9	592.6	625.3	663.3
30°	393.6	401.3	412.1	430.2	450.5	479.0	512.9	544.7	573.6	607.5	647.1
32.5°	376.7	384.8	395.3	409.6	431.4	455.4	489.3	524.1	554.7	589.5	628.4
35°	354.0	360.4	369.9	384.5	404.1	425.1	455.2	491.1	523.4	560.5	597.6
37.5°	331.1	338.6	346.1	359.1	375.2	397.7	422.4	459.0	494.9	528.7	565.0
40°	318.1	322.6	330.8	341.4	358.5	378.5	401.6	437.4	473.3	507.0	543.4
42.5°	303.7	308.7	315.6	326.1	341.4	360.9	383.6	414.6	452.0	484.6	517.8
45°	283.6	286.4	293.4	302.3	315.0	334.7	355.6	383.2	418.4	449.5	478.7
47.5°	263.3	265.8	270.1	278.3	292.4	308.3	327.9	352.6	383.5	414.6	439.3
50°	249.3	251.5	255.7	263.3	276.0	291.6	310.9	333.0	360.7	390.5	411.1
52.5°	235.4	236.6	240.4	249.1	259.8	275.0	292.4	312.7	338.6	363.4	384.3
55°	213.2	216.1	218.6	224.9	235.1	249.6	265.2	284.5	304.5	325.5	343.2
57.5°	190.0	193.1	196.8	202.4	210.4	224.0	238.0	253.6	270.7	288.1	303.0
60°	174.8	177.7	180.8	187.2	194.4	205.2	220.5	234.1	247.1	262.9	277.9
62.5°	159.8	162.7	166.3	171.5	178.5	188.7	201.5	213.3	226.8	240.7	251.8
65°	137.7	139.9	142.8	147.5	154.2	163.4	173.8	183.0	195.1	205.2	215.4
67.5°	113.4	117.6	121.4	125.2	130.9	139.4	147.0	155.8	164.0	171.5	180.8
70°	97.3	102.2	105.7	109.7	115.1	122.5	129.7	135.7	142.4	149.7	158.0
72.5°	84.0	87.6	90.4	94.8	99.6	106.5	113.2	118.2	123.7	128.7	136.6
75°	66.3	67.9	69.8	73.3	77.7	82.8	88.2	92.6	95.8	100.2	106.0
77.5°	47.6	50.7	51.9	54.5	57.6	60.7	64.3	68.1	71.1	72.7	77.0
80°	36.4	37.7	39.1	42.5	44.4	47.6	50.1	53.6	54.9	56.5	60.6
82.5°	28.4	29.1	29.9	30.8	32.0	35.1	37.7	39.9	41.2	41.7	44.8
85°	16.5	16.8	17.1	17.4	17.8	17.8	19.0	20.6	22.8	22.8	23.8
87.5°	7.3	7.5	7.3	6.9	7.3	7.2	7.3	7.1	7.7	8.2	8.9
90°	8.6	8.2	7.5	6.8	6.2	5.5	4.7	3.8	2.9	2.0	1.1
92.5°	14.9	14.6	14.2	13.7	13.3	12.8	12.1	11.0	9.9	9.0	7.9
95°	28.3	28.0	27.5	26.9	26.3	25.8	25.1	24.4	23.6	22.9	22.2
97.5°	44.7	44.4	43.7	43.0	42.4	41.7	41.1	40.5	39.9	39.3	38.7
100°	56.7	56.5	55.8	55.0	54.3	53.6	53.1	52.7	52.3	52.0	51.7
102.5°	69.1	69.0	68.2	67.6	66.9	66.3	65.9	65.7	65.6	65.5	65.3
105°	88.1	87.9	87.6	87.2	86.9	86.6	86.4	86.3	86.3	86.2	86.1
107.5°	108.8	108.5	108.5	108.4	108.4	108.4	108.3	108.2	108.1	107.9	107.9
110°	122.9	123.0	123.1	123.2	123.3	123.4	123.3	123.1	122.9	122.8	122.6



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.5	137.5	137.6	137.8	137.9	138.1	138.2	138.1	138.1	138.0	138.0
115°	160.3	160.4	160.5	160.7	160.9	161.0	161.1	161.1	161.1	161.1	161.1
117.5°	182.3	182.5	182.7	182.8	183.0	183.0	183.0	183.0	183.0	182.9	182.8
120°	197.2	197.6	197.9	198.1	198.4	198.6	198.6	198.3	198.0	197.6	197.3
122.5°	212.1	212.5	212.5	212.6	212.8	212.9	212.9	212.7	212.6	212.5	212.4
125°	234.1	234.2	234.3	234.4	234.5	234.6	234.6	234.6	234.6	234.6	234.6
127.5°	255.1	255.3	255.4	255.5	255.7	255.8	255.8	255.5	255.3	255.0	254.8
130°	269.9	270.0	270.0	270.0	270.0	270.0	269.9	269.7	269.5	269.2	269.0
132.5°	283.8	284.0	284.1	284.1	284.1	284.2	284.1	284.0	283.8	283.6	283.4
135°	304.6	304.8	304.8	304.8	304.8	304.8	304.5	304.0	303.5	303.0	302.6
137.5°	324.8	325.1	324.9	324.8	324.7	324.5	324.3	324.1	323.8	323.7	323.4
140°	337.9	338.0	338.0	338.0	338.0	338.0	337.9	337.8	337.6	337.5	337.3
142.5°	350.4	350.4	350.5	350.6	350.7	350.7	350.7	350.5	350.3	350.2	350.0
145°	369.3	369.4	369.3	369.2	369.2	369.1	368.9	368.6	368.3	367.9	367.6
147.5°	386.5	386.5	386.6	386.6	386.7	386.8	386.6	386.2	385.8	385.4	385.1
150°	397.1	397.1	397.1	397.1	397.1	397.1	397.0	396.6	396.3	396.0	395.7
152.5°	407.1	406.9	406.8	406.8	406.7	406.7	406.5	406.3	406.1	405.9	405.7
155°	421.1	420.8	420.9	420.9	421.0	421.1	421.2	421.2	421.2	421.2	421.2
157.5°	433.7	433.4	433.4	433.5	433.5	433.5	433.6	433.7	433.9	434.0	434.1
160°	441.4	441.2	441.2	441.3	441.4	441.5	441.6	441.6	441.7	441.8	441.9
162.5°	448.1	447.6	447.7	447.8	447.8	447.9	448.1	448.3	448.5	448.7	449.0
165°	457.1	456.6	456.8	457.0	457.1	457.3	457.5	457.7	458.0	458.2	458.4
167.5°	464.8	464.3	464.3	464.3	464.2	464.2	464.4	464.8	465.1	465.5	465.8
170°	469.0	468.5	468.4	468.3	468.2	468.1	468.3	468.7	469.1	469.5	469.9
172.5°	472.0	471.4	471.4	471.4	471.3	471.3	471.5	471.9	472.2	472.5	472.9
175°	475.3	474.7	474.8	474.9	475.0	475.1	475.3	475.7	476.1	476.5	477.0
177.5°	477.3	476.8	476.8	476.8	476.8	476.8	477.0	477.3	477.6	477.9	478.3
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	792.1	794.4	797.0	801.8	805.8	807.6	811.2	813.8	812.9	816.5	822.6
5°	795.2	803.8	813.7	823.8	835.2	844.7	852.4	860.0	866.0	873.3	884.1
7.5°	794.8	810.0	826.6	844.7	863.5	879.6	894.6	909.9	923.3	938.2	957.5
10°	792.7	813.0	833.6	857.5	881.3	903.8	924.1	943.1	961.2	980.5	1004.9
12.5°	790.4	813.8	838.7	867.3	897.0	924.1	947.9	975.3	997.9	1022.9	1051.2
15°	780.3	811.8	845.7	882.8	918.4	954.8	987.5	1021.2	1052.6	1082.3	1117.9
17.5°	768.8	805.0	845.1	888.9	931.6	975.9	1014.7	1057.1	1089.2	1129.2	1162.2
20°	759.5	798.4	841.2	890.4	939.0	988.1	1030.9	1074.1	1110.3	1150.6	1192.5
22.5°	748.0	790.8	837.2	888.1	939.0	992.7	1040.1	1083.0	1127.8	1173.1	1216.3
25°	729.6	774.0	823.2	879.0	937.3	992.2	1043.0	1096.3	1144.5	1193.7	1232.4
27.5°	707.0	753.7	805.5	863.1	923.0	979.2	1038.9	1095.8	1144.3	1191.6	1225.3
30°	689.0	738.2	788.0	846.4	908.5	968.8	1032.8	1089.6	1140.7	1183.2	1202.2
32.5°	670.5	717.1	768.4	827.5	891.3	956.1	1019.7	1077.7	1124.9	1150.5	1151.0
35°	638.2	682.0	735.3	793.4	858.7	929.1	993.5	1050.6	1079.5	1081.7	1050.6
37.5°	603.1	643.3	693.6	751.7	823.2	893.3	959.0	997.1	1006.8	974.5	917.0
40°	578.0	615.1	663.7	723.3	794.3	866.7	926.6	954.5	944.4	892.0	827.9
42.5°	551.5	586.1	632.9	691.8	763.1	836.2	887.3	902.2	875.3	814.9	739.9
45°	508.5	540.2	586.5	645.9	714.4	782.9	821.6	814.0	769.2	697.6	613.5
47.5°	463.7	494.3	536.0	590.8	661.0	720.2	746.3	723.4	659.7	580.9	512.5
50°	434.0	465.4	503.8	556.1	620.2	677.3	694.1	659.2	588.4	512.7	449.8
52.5°	404.8	431.6	469.2	519.8	581.1	629.3	638.2	598.0	525.0	457.1	401.4
55°	360.4	384.8	416.5	464.1	517.1	558.0	553.3	501.5	435.2	377.2	333.4
57.5°	317.4	335.8	365.1	409.7	456.2	483.7	466.3	422.2	360.4	312.9	276.0
60°	289.0	306.1	333.4	372.4	413.4	428.8	414.3	366.4	317.6	274.1	243.0
62.5°	262.1	277.2	300.7	336.9	369.9	379.1	363.5	321.7	277.7	240.6	214.8
65°	223.0	236.9	257.0	282.7	305.5	309.9	299.8	257.0	223.6	192.6	174.8
67.5°	187.5	196.7	212.3	234.5	246.6	249.2	229.6	202.7	173.3	154.3	140.9
70°	163.7	170.0	184.6	196.7	206.5	206.8	188.7	167.1	144.6	129.1	119.3
72.5°	140.6	146.7	157.8	166.0	173.5	171.0	154.5	137.5	119.3	107.5	100.2
75°	108.5	113.9	119.6	123.4	123.4	120.3	108.2	95.5	85.0	78.0	75.8
77.5°	78.8	83.3	85.2	84.6	83.5	78.5	70.9	62.6	58.9	55.6	53.9
80°	61.9	63.8	64.4	62.8	60.9	55.2	50.1	46.6	43.1	41.9	41.3
82.5°	45.9	47.5	45.9	46.3	42.2	37.4	34.7	33.4	32.0	31.5	30.8
85°	24.5	24.1	23.5	21.9	19.0	18.4	18.1	17.8	17.1	17.4	16.8
87.5°	8.8	8.2	7.3	7.3	7.4	7.1	7.4	7.6	7.7	7.6	8.2
90°	2.0	2.9	3.8	4.7	5.5	6.2	6.8	7.5	8.2	8.6	9.1
92.5°	9.0	9.9	11.0	12.1	12.8	13.3	13.7	14.2	14.6	14.9	15.2
95°	22.9	23.6	24.4	25.1	25.8	26.3	26.9	27.5	28.0	28.3	28.5
97.5°	39.3	39.9	40.5	41.1	41.7	42.4	43.0	43.7	44.4	44.7	45.0
100°	52.0	52.3	52.7	53.1	53.6	54.3	55.0	55.8	56.5	56.7	56.8
102.5°	65.5	65.6	65.7	65.9	66.3	66.9	67.6	68.2	69.0	69.1	69.4
105°	86.2	86.3	86.3	86.4	86.6	86.9	87.2	87.6	87.9	88.1	88.5
107.5°	107.9	108.1	108.2	108.3	108.4	108.4	108.4	108.5	108.5	108.8	109.0
110°	122.8	122.9	123.1	123.3	123.4	123.3	123.2	123.1	123.0	122.9	122.7



TEST NUMBER: P333036-930

CATALOG NUMBER: S124RDIW-S575D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	138.0	138.1	138.1	138.2	138.1	137.9	137.8	137.6	137.5	137.5	137.5
115°	161.1	161.1	161.1	161.1	161.0	160.9	160.7	160.5	160.4	160.3	160.2
117.5°	182.9	183.0	183.0	183.0	183.0	183.0	182.8	182.7	182.5	182.3	182.1
120°	197.6	198.0	198.3	198.6	198.6	198.4	198.1	197.9	197.6	197.2	196.8
122.5°	212.5	212.6	212.7	212.9	212.9	212.8	212.6	212.5	212.5	212.1	211.9
125°	234.6	234.6	234.6	234.6	234.6	234.5	234.4	234.3	234.2	234.1	233.9
127.5°	255.0	255.3	255.5	255.8	255.8	255.7	255.5	255.4	255.3	255.1	254.9
130°	269.2	269.5	269.7	269.9	270.0	270.0	270.0	270.0	270.0	269.9	269.7
132.5°	283.6	283.8	284.0	284.1	284.2	284.1	284.1	284.1	284.0	283.8	283.6
135°	303.0	303.5	304.0	304.5	304.8	304.8	304.8	304.8	304.8	304.6	304.4
137.5°	323.7	323.8	324.1	324.3	324.5	324.7	324.8	324.9	325.1	324.8	324.6
140°	337.5	337.6	337.8	337.9	338.0	338.0	338.0	338.0	338.0	337.9	337.9
142.5°	350.2	350.3	350.5	350.7	350.7	350.7	350.6	350.5	350.4	350.4	350.4
145°	367.9	368.3	368.6	368.9	369.1	369.2	369.2	369.3	369.4	369.3	369.2
147.5°	385.4	385.8	386.2	386.6	386.8	386.7	386.6	386.6	386.5	386.5	386.4
150°	396.0	396.3	396.6	397.0	397.1	397.1	397.1	397.1	397.1	397.1	397.1
152.5°	405.9	406.1	406.3	406.5	406.7	406.7	406.8	406.8	406.9	407.1	407.3
155°	421.2	421.2	421.2	421.2	421.1	421.0	420.9	420.9	420.8	421.1	421.4
157.5°	434.0	433.9	433.7	433.6	433.5	433.5	433.5	433.4	433.4	433.7	433.9
160°	441.8	441.7	441.6	441.6	441.5	441.4	441.3	441.2	441.2	441.4	441.6
162.5°	448.7	448.5	448.3	448.1	447.9	447.8	447.8	447.7	447.6	448.1	448.5
165°	458.2	458.0	457.7	457.5	457.3	457.1	457.0	456.8	456.6	457.1	457.6
167.5°	465.5	465.1	464.8	464.4	464.2	464.2	464.3	464.3	464.3	464.8	465.3
170°	469.5	469.1	468.7	468.3	468.1	468.2	468.3	468.4	468.5	469.0	469.4
172.5°	472.5	472.2	471.9	471.5	471.3	471.3	471.4	471.4	471.4	472.0	472.5
175°	476.5	476.1	475.7	475.3	475.1	475.0	474.9	474.8	474.7	475.3	475.9
177.5°	477.9	477.6	477.3	477.0	476.8	476.8	476.8	476.8	476.8	477.3	477.8
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	825.9	827.0	827.7	830.2	830.5	832.7	830.5
5°	894.2	898.7	905.6	912.6	913.3	917.7	909.8
7.5°	970.9	981.1	987.6	998.8	1003.3	1006.1	1001.5
10°	1023.7	1033.1	1050.0	1058.3	1066.5	1067.7	1064.0
12.5°	1074.6	1089.7	1103.0	1118.7	1118.3	1129.4	1125.4
15°	1142.6	1158.1	1176.6	1194.0	1200.4	1200.4	1205.4
17.5°	1191.1	1219.6	1238.6	1252.3	1267.3	1269.9	1268.1
20°	1223.8	1254.6	1274.9	1292.7	1302.8	1305.7	1305.7
22.5°	1248.2	1274.4	1294.2	1310.2	1318.6	1321.9	1320.9
25°	1265.1	1287.6	1299.7	1304.4	1306.6	1305.9	1300.0
27.5°	1241.9	1241.0	1233.3	1218.7	1207.8	1201.1	1193.5
30°	1197.8	1181.3	1162.3	1141.3	1114.4	1093.7	1087.4
32.5°	1132.1	1095.0	1062.8	1027.9	998.9	978.3	969.6
35°	1004.9	946.2	898.4	856.5	826.1	807.0	800.6
37.5°	854.1	797.3	738.0	697.4	672.1	652.9	645.7
40°	758.1	696.3	644.6	606.5	580.5	561.8	561.5
42.5°	670.6	611.6	562.9	535.5	507.4	495.0	495.0
45°	549.1	501.8	460.6	439.0	422.2	412.1	409.2
47.5°	454.6	415.6	388.1	370.9	357.2	350.7	346.5
50°	401.6	367.4	345.4	330.5	322.9	314.7	314.1
52.5°	357.4	329.8	312.7	300.6	291.0	286.0	286.2
55°	300.4	278.5	266.4	257.2	249.6	245.8	244.3
57.5°	253.1	236.7	227.9	219.5	216.2	213.2	212.4
60°	223.6	212.5	204.3	197.6	192.9	191.9	191.6
62.5°	199.3	187.7	182.0	176.8	173.3	171.9	171.3
65°	164.3	155.7	150.7	146.6	145.3	143.1	142.8
67.5°	132.5	127.3	124.0	121.2	119.4	119.3	119.3
70°	112.9	110.1	107.2	105.7	104.7	104.0	104.0
72.5°	96.2	94.1	91.7	90.9	90.7	90.1	89.8
75°	73.3	71.1	71.3	69.8	68.5	66.9	66.0
77.5°	51.9	50.4	50.1	49.9	48.8	48.6	49.1
80°	40.3	38.7	38.4	38.7	38.4	37.4	37.4
82.5°	30.7	29.4	29.0	28.8	28.5	28.8	28.3
85°	16.5	15.9	15.9	15.9	16.5	16.1	15.9
87.5°	7.7	7.6	7.9	7.7	7.7	7.5	7.8
90°	9.6	10.1	10.4	10.6	10.8	10.9	11.1
92.5°	15.5	15.8	16.0	16.1	16.2	16.3	16.4
95°	28.8	29.0	29.2	29.2	29.2	29.2	29.2
97.5°	45.3	45.6	45.7	45.7	45.7	45.7	45.7
100°	57.0	57.2	57.2	57.2	57.2	57.2	57.2
102.5°	69.6	69.9	70.0	70.0	70.1	70.2	70.3
105°	88.7	88.9	89.2	89.4	89.7	89.9	90.2
107.5°	109.3	109.5	109.6	109.6	109.6	109.5	109.5
110°	122.5	122.4	122.4	122.6	122.9	123.1	123.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	137.4	137.4	137.4	137.5	137.5	137.5	137.5
115°	160.1	160.0	160.0	159.9	159.8	159.7	159.6
117.5°	181.7	181.5	181.2	181.1	180.9	180.8	180.6
120°	196.4	196.0	195.9	196.1	196.2	196.4	196.6
122.5°	211.6	211.3	211.0	210.8	210.4	210.1	209.9
125°	233.7	233.6	233.4	233.3	233.1	232.9	232.8
127.5°	254.8	254.6	254.5	254.4	254.2	254.1	254.0
130°	269.5	269.4	269.1	268.8	268.5	268.2	267.8
132.5°	283.5	283.3	283.2	283.0	282.9	282.7	282.7
135°	304.3	304.1	303.9	303.7	303.5	303.2	303.0
137.5°	324.4	324.2	324.1	324.2	324.2	324.2	324.3
140°	337.8	337.7	337.6	337.5	337.5	337.4	337.3
142.5°	350.4	350.4	350.3	350.3	350.3	350.3	350.3
145°	369.2	369.1	368.9	368.7	368.4	368.2	367.9
147.5°	386.3	386.3	386.2	386.1	386.0	386.0	385.9
150°	397.1	397.1	397.1	397.1	397.0	396.9	396.8
152.5°	407.5	407.7	407.6	407.5	407.2	407.1	406.8
155°	421.8	422.1	422.1	421.8	421.4	421.1	420.8
157.5°	434.1	434.4	434.4	434.1	433.8	433.6	433.3
160°	441.9	442.1	442.1	441.6	441.2	440.8	440.3
162.5°	449.0	449.4	449.4	449.0	448.6	448.2	447.8
165°	458.1	458.6	458.7	458.4	458.0	457.7	457.4
167.5°	465.8	466.3	466.3	465.8	465.3	464.7	464.2
170°	469.9	470.4	470.3	469.8	469.2	468.6	468.1
172.5°	473.1	473.6	473.6	473.0	472.5	471.9	471.3
175°	476.5	477.0	477.0	476.5	475.9	475.3	474.7
177.5°	478.2	478.7	478.6	478.1	477.6	477.0	476.5
180°	477.7	477.7	477.7	477.7	477.7	477.7	477.7

(END OF REPORT)