

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: P332574-935

Luminaire Tested: **SA4XXDIP-C575D1205U935-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332574-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C575D1205U935-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6181.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

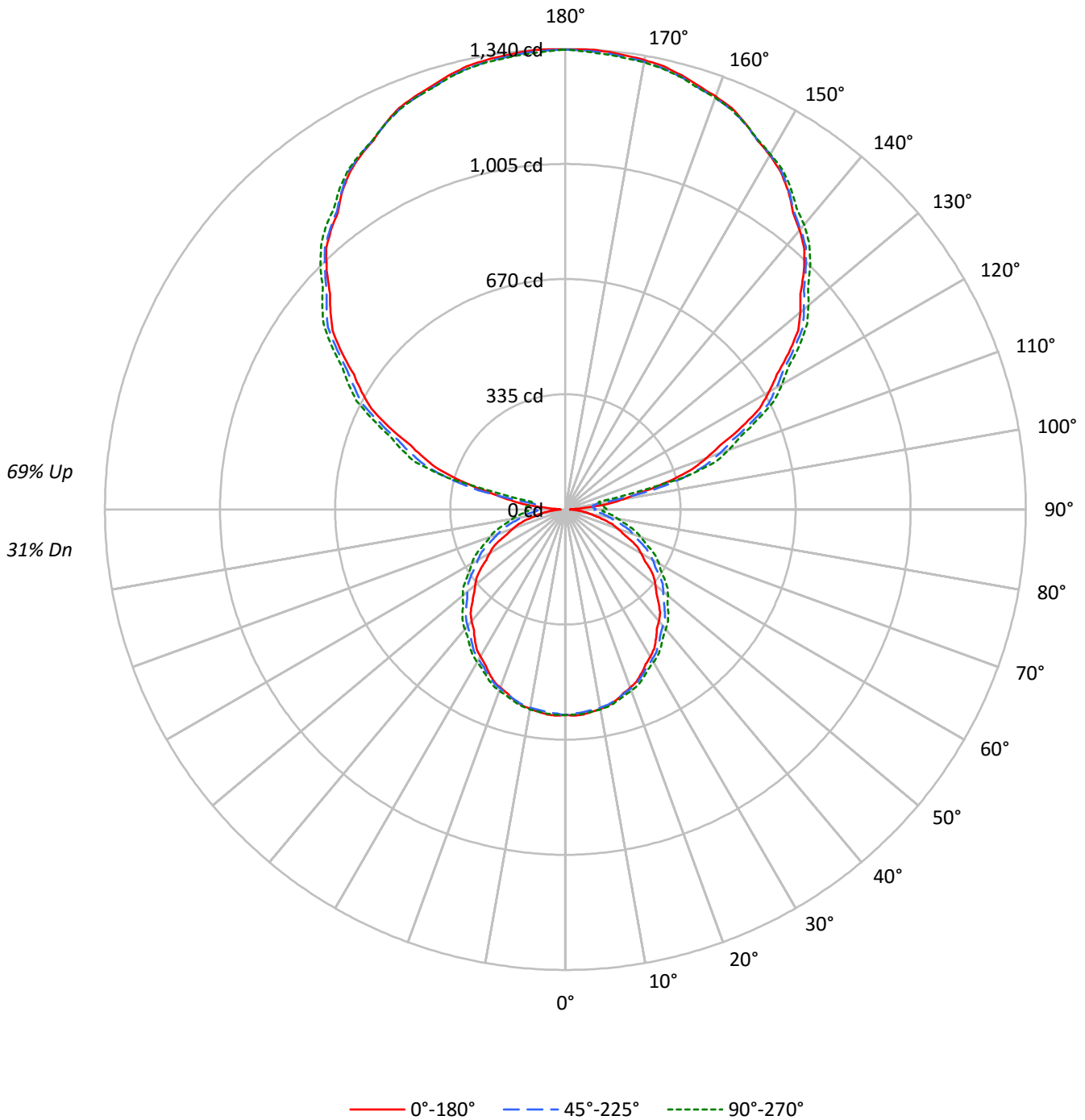
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332574-935

CATALOG NUMBER: SA4XXDIP-C575D1205U935-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332574-935

CATALOG NUMBER: SA4XXDIP-C575D1205U935-4F0-1E-UDD-D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31				31
1	93	88	84	81	83	79	76	73	63	60	58	47	46	44	33	32	31	24				24
2	84	77	71	65	75	69	64	59	54	51	47	41	38	36	28	27	26	20				20
3	77	67	60	54	68	60	54	49	48	43	40	36	33	30	25	23	21	17				17
4	70	59	51	45	62	53	47	41	42	37	33	32	28	26	22	20	18	14				14
5	64	52	44	39	57	47	40	35	38	32	29	28	25	22	20	18	16	12				12
6	59	47	39	33	52	42	35	30	34	29	25	26	22	19	18	16	14	11				11
7	54	42	34	29	48	38	31	26	30	25	22	23	20	17	16	14	12	9				9
8	50	38	30	25	45	34	28	23	28	23	19	21	17	15	15	13	11	8				8
9	47	35	27	22	42	31	25	20	25	20	17	19	16	13	14	11	10	7				7
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	10	9	7				7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4830	4830	4830
5°	4845	4721	4734
10°	4816	4644	4639
15°	4772	4554	4529
20°	4707	4455	4422
25°	4634	4345	4302
30°	4555	4235	4181
35°	4464	4122	4074
40°	4393	4015	3964
45°	4286	3916	3867
50°	4195	3803	3767
55°	4102	3695	3648
60°	3957	3557	3541
65°	3798	3411	3409
70°	3603	3243	3253
75°	3334	3060	3114
80°	3035	2882	2977
85°	2656	2725	2896



TEST NUMBER: P332574-935

CATALOG NUMBER: SA4XXDIP-C575D1205U935-4F0-1E-UDD-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	0.9
10°-20°	162.3	2.6
20°-30°	245.5	4.0
30°-40°	297.0	4.8
40°-50°	314.0	5.1
50°-60°	295.5	4.8
60°-70°	245.2	4.0
70°-80°	172.2	2.8
80°-90°	101.2	1.6
90°-100°	103.6	1.7
100°-110°	334.5	5.4
110°-120°	586.7	9.5
120°-130°	724.6	11.7
130°-140°	764.9	12.4
140°-150°	710.1	11.5
150°-160°	571.5	9.2
160°-170°	368.6	6.0
170°-180°	127.0	2.1
0°-30°	464.5	7.5
0°-40°	761.4	12.3
0°-60°	1370.9	22.2
0°-90°	1889.4	30.6
90°-120°	1024.8	16.6
90°-150°	3224.3	52.2
90°-180°	4292.0	69.4
0°-180°	6181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	599	597	592	597	597	57
15°	574	575	573	578	578	162
25°	525	529	531	538	539	242
35°	460	468	474	483	486	288
45°	383	396	409	420	423	296
55°	300	314	334	347	352	267
65°	208	229	252	268	274	206
75°	115	140	168	186	193	123
85°	36	64	94	113	121	38
90°	14	52	88	113	121	10
95°	64	54	80	103	111	78
105°	307	327	356	379	352	322
115°	566	576	596	612	617	557
125°	793	797	811	826	832	708
135°	982	981	990	1002	1008	756
145°	1131	1133	1134	1138	1143	707
155°	1240	1240	1238	1241	1238	571
165°	1308	1303	1303	1310	1302	369
175°	1338	1332	1333	1340	1330	127
180°	1338	1338	1338	1338	1338	



TEST NUMBER: P332574-935

CATALOG NUMBER: SA4XXDIP-C575D1205U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3
2.5°	600.5	600.1	599.8	599.3	599.0	598.4	597.4	596.5	595.5	594.5	595.4
5°	599.0	598.6	598.1	597.6	597.2	596.4	595.4	594.3	593.3	592.3	593.5
7.5°	593.9	593.6	593.3	593.1	592.8	592.3	591.4	590.6	589.6	588.8	590.1
10°	589.6	589.4	589.3	589.2	589.0	588.6	587.8	587.0	586.3	585.6	586.9
12.5°	583.7	583.7	583.7	583.6	583.6	583.3	582.8	582.3	581.8	581.3	582.5
15°	574.2	574.4	574.5	574.6	574.8	574.6	574.2	573.8	573.3	572.8	574.2
17.5°	561.2	561.6	562.1	562.5	563.0	563.2	563.1	563.0	562.9	562.8	564.1
20°	552.1	552.5	552.9	553.5	553.9	554.1	554.3	554.5	554.6	554.7	556.2
22.5°	541.9	542.4	543.0	543.5	544.2	544.6	544.8	545.1	545.4	545.6	547.2
25°	525.3	526.2	527.1	528.0	528.8	529.5	529.9	530.4	530.9	531.3	533.0
27.5°	506.8	508.1	509.4	510.7	512.0	513.0	513.7	514.4	515.1	515.7	517.3
30°	494.5	495.7	496.8	498.0	499.2	500.3	501.4	502.4	503.4	504.5	506.2
32.5°	481.0	482.5	483.9	485.3	486.8	488.1	489.2	490.4	491.5	492.8	494.6
35°	459.6	461.4	463.2	464.9	466.7	468.4	469.8	471.4	472.9	474.3	476.5
37.5°	438.1	440.1	442.1	444.2	446.3	448.2	450.0	451.9	453.7	455.6	457.7
40°	424.1	426.0	428.0	429.9	431.9	433.9	435.9	438.0	440.1	442.2	444.4
42.5°	408.0	410.2	412.3	414.6	416.7	419.0	421.5	423.9	426.4	428.8	431.3
45°	383.2	386.1	388.9	391.8	394.5	397.4	400.2	403.0	405.9	408.7	411.2
47.5°	359.6	362.4	365.3	368.2	371.2	374.3	377.5	380.8	384.1	387.4	390.0
50°	342.3	345.6	348.9	352.2	355.5	358.8	362.1	365.3	368.6	371.9	374.8
52.5°	325.2	328.5	331.7	335.0	338.3	341.8	345.6	349.3	353.1	356.8	359.8
55°	300.1	303.2	306.4	309.5	312.6	316.4	320.9	325.4	329.8	334.3	337.3
57.5°	272.2	276.0	279.9	283.8	287.7	291.8	296.2	300.7	305.1	309.5	313.1
60°	253.9	257.8	261.7	265.5	269.4	273.8	278.7	283.6	288.5	293.4	296.9
62.5°	236.3	240.5	244.7	248.9	253.1	257.7	262.6	267.5	272.5	277.4	280.8
65°	207.7	212.5	217.2	222.0	226.8	231.7	236.7	241.8	246.8	251.9	255.6
67.5°	180.2	185.3	190.4	195.4	200.4	205.7	211.1	216.5	222.0	227.4	231.2
70°	161.4	166.5	171.6	176.7	181.8	187.1	192.7	198.4	204.1	209.7	213.7
72.5°	143.3	148.4	153.6	158.8	163.9	169.5	175.6	181.6	187.6	193.6	197.5
75°	115.2	120.7	126.2	131.7	137.2	143.2	149.4	155.7	162.0	168.2	172.4
77.5°	89.1	95.0	100.8	106.6	112.4	118.6	125.2	131.7	138.3	144.8	149.0
80°	73.0	79.0	85.0	90.9	96.9	103.1	109.7	116.2	122.8	129.3	133.8
82.5°	56.9	63.1	69.3	75.5	81.7	88.1	94.6	101.2	107.7	114.3	118.9
85°	35.5	41.8	48.0	54.2	60.5	67.0	73.7	80.4	87.1	93.8	98.2
87.5°	20.4	27.0	33.6	40.1	46.7	53.4	60.3	67.2	74.0	80.9	85.5
90°	13.7	22.1	30.6	38.9	47.4	55.6	63.8	72.0	80.2	88.3	94.0
92.5°	22.8	28.2	33.8	39.3	44.8	51.6	59.8	67.9	76.1	84.3	89.9
95°	63.7	61.1	58.5	55.8	53.1	55.0	61.3	67.7	74.0	80.3	85.7
97.5°	124.8	133.7	142.7	151.6	160.5	155.6	136.8	118.0	99.3	80.6	84.6
100°	171.4	179.3	187.2	195.1	202.9	194.4	169.5	144.6	119.9	95.0	95.1
102.5°	224.3	230.6	236.9	243.2	249.6	253.6	255.3	256.9	258.6	260.4	223.4
105°	307.2	311.5	315.8	320.1	324.4	329.8	336.5	343.1	349.7	356.4	362.1
107.5°	385.3	388.4	391.5	394.6	397.7	402.6	409.3	416.0	422.8	429.5	434.1
110°	437.6	440.3	443.1	445.8	448.6	453.2	459.8	466.3	472.9	479.4	483.3



TEST NUMBER: P332574-935

CATALOG NUMBER: SA4XXDIP-C575D1205U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	488.3	491.3	494.3	497.4	500.4	504.7	510.3	515.9	521.5	527.1	530.4
115°	566.3	568.3	570.2	572.3	574.3	577.6	582.1	586.7	591.2	595.7	599.4
117.5°	637.1	638.9	640.6	642.2	643.9	647.2	652.2	657.1	662.0	666.9	669.9
120°	684.7	686.0	687.3	688.6	690.0	692.7	696.8	700.9	705.0	709.1	712.5
122.5°	729.4	730.1	730.7	731.3	731.9	734.4	738.8	743.2	747.6	752.0	755.3
125°	793.1	793.8	794.5	795.2	796.0	798.0	801.2	804.5	807.8	811.1	814.6
127.5°	853.7	853.8	853.9	853.9	854.0	856.0	859.9	863.8	867.6	871.5	874.1
130°	892.4	892.5	892.5	892.6	892.7	894.2	897.3	900.3	903.4	906.5	909.4
132.5°	928.4	928.7	928.9	929.2	929.4	930.9	933.7	936.4	939.2	941.9	944.7
135°	981.8	981.5	981.4	981.1	980.9	981.7	983.7	985.6	987.6	989.5	992.3
137.5°	1029.6	1029.5	1029.5	1029.4	1029.3	1030.1	1031.6	1033.0	1034.5	1036.0	1038.6
140°	1060.8	1061.1	1061.4	1061.7	1062.0	1062.5	1063.0	1063.6	1064.2	1064.8	1067.4
142.5°	1088.3	1089.1	1089.9	1090.6	1091.4	1091.8	1092.0	1092.2	1092.4	1092.5	1094.8
145°	1131.2	1131.7	1132.2	1132.7	1133.2	1133.5	1133.5	1133.5	1133.5	1133.5	1134.6
147.5°	1165.4	1166.5	1167.6	1168.6	1169.8	1170.2	1170.0	1169.8	1169.5	1169.3	1169.6
150°	1190.2	1190.9	1191.7	1192.4	1193.2	1193.4	1193.2	1193.0	1192.7	1192.5	1192.5
152.5°	1210.5	1211.2	1211.9	1212.5	1213.2	1213.3	1213.0	1212.5	1212.1	1211.8	1212.1
155°	1239.6	1239.8	1240.0	1240.2	1240.4	1240.2	1239.6	1238.9	1238.2	1237.5	1238.5
157.5°	1264.1	1264.0	1263.9	1263.8	1263.6	1263.2	1262.4	1261.7	1260.9	1260.2	1261.3
160°	1278.6	1277.9	1277.2	1276.6	1275.9	1275.5	1275.2	1275.0	1274.8	1274.5	1275.9
162.5°	1291.3	1290.6	1289.7	1288.8	1288.0	1287.5	1287.2	1287.0	1286.8	1286.6	1287.9
165°	1307.6	1306.5	1305.4	1304.2	1303.1	1302.6	1302.6	1302.6	1302.6	1302.6	1304.3
167.5°	1320.3	1319.2	1318.1	1316.9	1315.8	1315.1	1315.0	1314.8	1314.7	1314.6	1316.6
170°	1327.6	1326.3	1324.9	1323.6	1322.2	1321.7	1321.9	1322.2	1322.3	1322.6	1324.4
172.5°	1332.4	1331.0	1329.7	1328.4	1327.1	1326.5	1326.7	1327.0	1327.1	1327.4	1329.1
175°	1337.6	1336.3	1334.9	1333.6	1332.2	1331.7	1331.9	1332.1	1332.4	1332.6	1334.6
177.5°	1340.0	1338.8	1337.5	1336.3	1335.0	1334.6	1334.9	1335.2	1335.7	1336.0	1337.4
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6



TEST NUMBER: P332574-935

CATALOG NUMBER: SA4XXDIP-C575D1205U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3
2.5°	596.2	597.0	597.9	598.2	598.1	598.0	597.9	597.8
5°	594.7	595.8	597.0	597.5	597.4	597.3	597.1	596.9
7.5°	591.5	592.8	594.2	594.8	594.6	594.4	594.3	594.2
10°	588.2	589.6	590.9	591.5	591.4	591.2	591.1	590.9
12.5°	583.8	585.0	586.2	586.8	586.8	586.7	586.7	586.7
15°	575.5	576.9	578.2	578.8	578.7	578.5	578.3	578.2
17.5°	565.5	566.9	568.3	568.9	568.8	568.7	568.5	568.4
20°	557.8	559.2	560.7	561.5	561.5	561.5	561.5	561.5
22.5°	548.6	550.1	551.6	552.5	552.7	552.9	553.2	553.5
25°	534.6	536.2	537.9	538.7	538.9	539.1	539.2	539.3
27.5°	518.8	520.3	521.9	522.7	522.9	523.1	523.2	523.4
30°	507.8	509.5	511.1	512.0	512.3	512.6	512.9	513.2
32.5°	496.5	498.3	500.2	501.3	501.6	501.9	502.2	502.5
35°	478.5	480.6	482.7	484.0	484.4	484.8	485.3	485.8
37.5°	459.9	461.9	464.1	465.4	465.8	466.3	466.7	467.3
40°	446.7	448.9	451.2	452.5	453.1	453.7	454.3	455.0
42.5°	433.8	436.2	438.7	440.1	440.7	441.1	441.6	442.0
45°	413.8	416.3	418.8	420.4	421.2	422.0	422.7	423.4
47.5°	392.6	395.3	397.9	399.6	400.5	401.4	402.3	403.2
50°	377.8	380.8	383.7	385.7	386.6	387.4	388.4	389.3
52.5°	362.8	365.8	368.8	370.7	371.6	372.5	373.3	374.3
55°	340.3	343.3	346.2	348.2	349.0	350.0	350.9	351.7
57.5°	316.6	320.2	323.7	325.9	326.7	327.5	328.4	329.2
60°	300.3	303.8	307.1	309.4	310.6	311.9	313.1	314.3
62.5°	284.2	287.7	291.1	293.3	294.5	295.8	297.0	298.2
65°	259.3	263.1	266.8	269.2	270.4	271.6	272.9	274.1
67.5°	235.0	238.8	242.5	245.0	246.2	247.3	248.5	249.6
70°	217.7	221.8	225.8	228.3	229.4	230.4	231.4	232.5
72.5°	201.4	205.3	209.2	211.7	212.9	214.0	215.2	216.4
75°	176.5	180.6	184.9	187.6	188.9	190.3	191.7	193.0
77.5°	153.3	157.6	161.8	164.6	166.0	167.5	168.8	170.3
80°	138.3	142.7	147.1	150.0	151.2	152.4	153.6	154.8
82.5°	123.5	128.0	132.7	135.6	136.9	138.2	139.5	140.9
85°	102.7	107.2	111.7	114.7	116.1	117.6	119.1	120.6
87.5°	90.1	94.7	99.3	102.3	103.7	105.0	106.4	107.9
90°	99.6	105.3	111.0	114.6	116.2	117.9	119.5	121.1
92.5°	95.4	100.9	106.4	109.9	111.2	112.4	113.7	114.9
95°	91.0	96.3	101.7	105.2	106.8	108.3	109.9	111.4
97.5°	88.6	92.6	96.7	99.4	101.0	102.5	103.9	105.5
100°	95.4	95.7	95.9	96.7	97.9	99.2	100.5	101.7
102.5°	186.6	149.7	112.9	95.0	96.2	97.4	98.6	99.8
105°	367.8	373.5	379.3	378.7	371.9	365.1	358.3	351.5
107.5°	438.8	443.4	448.1	451.3	453.2	455.2	457.1	459.0
110°	487.2	491.0	494.9	497.7	499.6	501.4	503.3	505.1



TEST NUMBER: P332574-935

CATALOG NUMBER: SA4XXDIP-C575D1205U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	533.6	536.7	540.0	542.6	544.7	546.6	548.7	550.8
115°	603.2	606.9	610.6	613.0	614.1	615.1	616.1	617.2
117.5°	673.0	676.0	679.0	681.1	682.2	683.2	684.3	685.4
120°	715.9	719.4	722.8	724.9	725.7	726.3	727.1	727.9
122.5°	758.5	761.7	765.0	767.0	767.6	768.2	768.8	769.5
125°	818.1	821.6	825.1	827.4	828.5	829.7	830.8	831.9
127.5°	876.6	879.2	881.7	883.4	884.2	885.0	885.9	886.7
130°	912.2	915.2	918.1	920.0	920.8	921.8	922.6	923.5
132.5°	947.5	950.3	953.0	954.8	955.5	956.2	956.9	957.7
135°	995.1	998.0	1000.7	1002.9	1004.2	1005.6	1006.9	1008.2
137.5°	1041.3	1044.0	1046.6	1048.3	1048.9	1049.5	1050.2	1050.8
140°	1070.1	1072.6	1075.2	1077.0	1078.0	1078.9	1079.9	1080.9
142.5°	1096.9	1099.1	1101.3	1102.7	1103.4	1104.1	1104.7	1105.4
145°	1135.7	1136.9	1138.0	1139.0	1140.1	1141.1	1142.2	1143.2
147.5°	1169.9	1170.2	1170.5	1171.0	1171.7	1172.4	1173.1	1173.8
150°	1192.5	1192.5	1192.5	1192.7	1192.8	1193.1	1193.3	1193.5
152.5°	1212.5	1212.8	1213.1	1213.2	1213.1	1213.0	1212.9	1212.7
155°	1239.3	1240.2	1241.1	1241.2	1240.5	1239.8	1239.2	1238.5
157.5°	1262.5	1263.6	1264.8	1264.8	1263.6	1262.5	1261.3	1260.2
160°	1277.2	1278.6	1279.9	1279.9	1278.6	1277.2	1275.9	1274.5
162.5°	1289.3	1290.6	1291.9	1291.8	1290.3	1288.8	1287.3	1285.7
165°	1306.1	1307.9	1309.7	1309.6	1307.6	1305.5	1303.6	1301.6
167.5°	1318.5	1320.4	1322.4	1322.2	1320.1	1317.8	1315.6	1313.4
170°	1326.1	1327.9	1329.7	1329.5	1327.2	1325.0	1322.8	1320.6
172.5°	1330.9	1332.7	1334.5	1334.2	1331.8	1329.4	1327.0	1324.6
175°	1336.6	1338.6	1340.6	1340.2	1337.6	1334.9	1332.2	1329.6
177.5°	1338.9	1340.2	1341.7	1341.4	1339.2	1337.0	1334.9	1332.8
180°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6

(END OF REPORT)