

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: P332574-927

Luminaire Tested: **SA4XXDIP-C575D1205U927-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332574-927
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-C575D1205U927-4F0-1E-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: 5686.9 lumens
Efficiency: N/A
Efficacy: 115.1 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

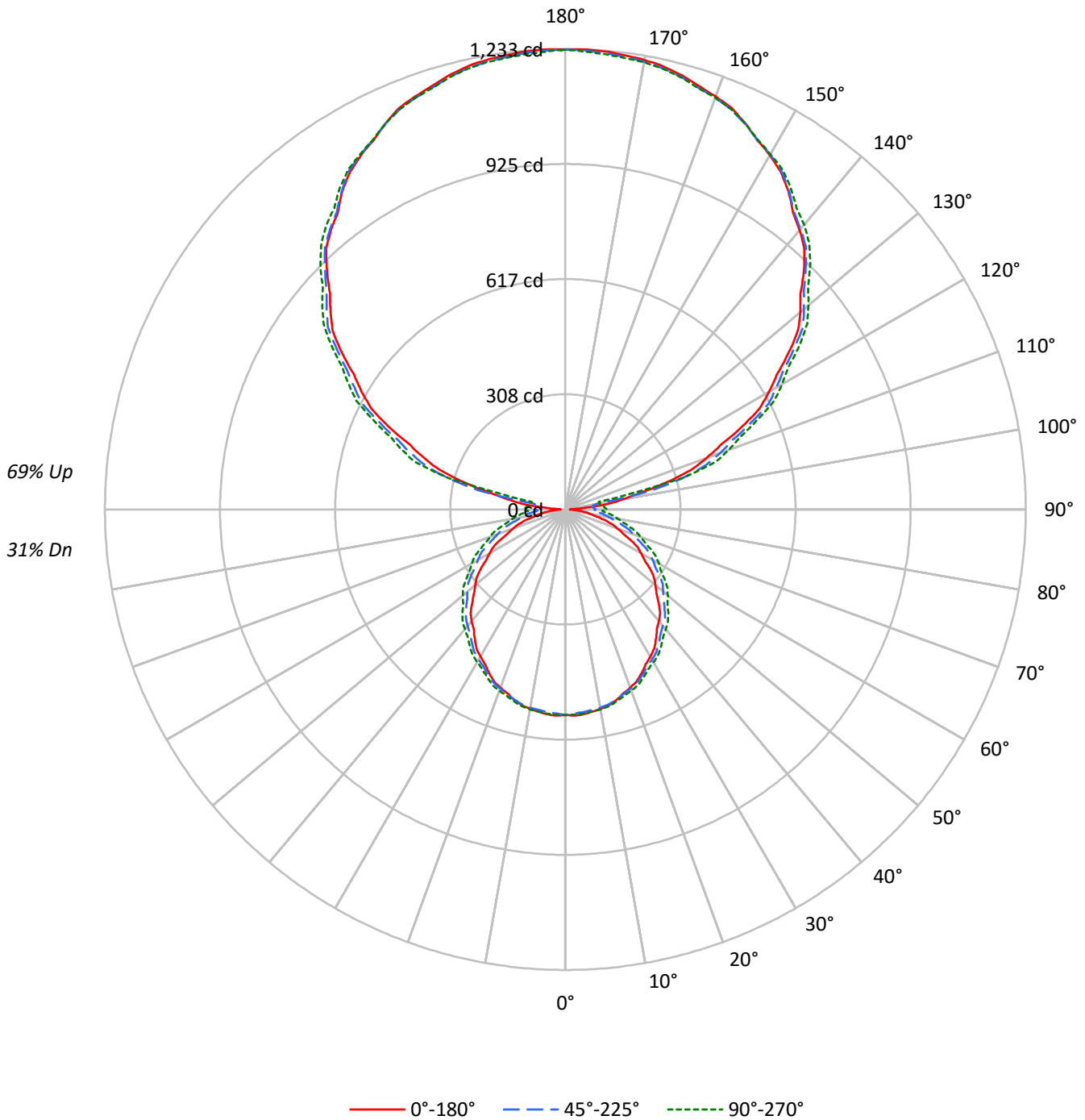
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4444	4444	4444
5°	4458	4343	4355
10°	4431	4273	4269
15°	4391	4190	4167
20°	4331	4099	4068
25°	4264	3998	3958
30°	4191	3896	3847
35°	4108	3792	3748
40°	4041	3694	3646
45°	3943	3603	3558
50°	3860	3498	3465
55°	3775	3400	3356
60°	3640	3274	3257
65°	3494	3139	3136
70°	3315	2985	2993
75°	3068	2814	2864
80°	2794	2652	2738
85°	2439	2507	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	0.9
10°-20°	149.4	2.6
20°-30°	225.8	4.0
30°-40°	273.2	4.8
40°-50°	288.9	5.1
50°-60°	271.9	4.8
60°-70°	225.6	4.0
70°-80°	158.4	2.8
80°-90°	93.1	1.6
90°-100°	95.3	1.7
100°-110°	307.7	5.4
110°-120°	539.8	9.5
120°-130°	666.6	11.7
130°-140°	703.7	12.4
140°-150°	653.4	11.5
150°-160°	525.9	9.2
160°-170°	339.2	6.0
170°-180°	116.9	2.1
0°-30°	427.3	7.5
0°-40°	700.6	12.3
0°-60°	1261.3	22.2
0°-90°	1738.4	30.6
90°-120°	942.8	16.6
90°-150°	2966.6	52.2
90°-180°	3949.0	69.4
0°-180°	5686.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	551	549	545	550	549	52
15°	528	529	527	532	532	149
25°	483	487	489	495	496	223
35°	423	430	436	445	447	265
45°	353	364	376	386	390	272
55°	276	289	308	319	324	246
65°	191	211	232	247	252	189
75°	106	129	155	171	178	113
85°	33	59	86	104	111	35
90°	13	47	81	104	112	9
95°	59	50	74	95	102	71
105°	283	301	328	349	323	296
115°	521	530	548	563	568	513
125°	730	733	746	760	765	651
135°	903	903	910	922	928	696
145°	1041	1043	1043	1048	1052	650
155°	1140	1141	1139	1142	1140	526
165°	1203	1199	1198	1205	1198	340
175°	1231	1226	1226	1233	1223	117
180°	1231	1231	1231	1231	1231	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	550.5	550.5	550.5	550.5	550.5	550.5	550.5	550.5	550.5	550.5	550.5
2.5°	552.5	552.2	551.8	551.4	551.1	550.6	549.7	548.8	547.9	547.0	547.8
5°	551.1	550.7	550.2	549.9	549.5	548.7	547.8	546.8	545.9	544.9	546.1
7.5°	546.4	546.1	545.9	545.7	545.4	544.9	544.2	543.4	542.5	541.7	543.0
10°	542.5	542.3	542.2	542.1	541.9	541.5	540.8	540.1	539.5	538.8	540.0
12.5°	537.0	537.0	537.0	536.9	536.9	536.7	536.2	535.8	535.3	534.8	535.9
15°	528.3	528.5	528.5	528.7	528.9	528.7	528.3	527.9	527.4	527.0	528.3
17.5°	516.3	516.7	517.1	517.5	518.0	518.2	518.1	518.0	517.9	517.8	519.0
20°	507.9	508.3	508.7	509.2	509.6	509.8	510.0	510.2	510.2	510.4	511.7
22.5°	498.6	499.1	499.6	500.1	500.7	501.1	501.3	501.5	501.8	502.0	503.4
25°	483.3	484.1	485.0	485.8	486.6	487.2	487.6	488.0	488.5	488.9	490.4
27.5°	466.3	467.5	468.7	469.9	471.1	472.0	472.6	473.2	473.9	474.5	475.9
30°	455.0	456.1	457.1	458.2	459.3	460.3	461.3	462.2	463.2	464.2	465.7
32.5°	442.6	443.9	445.2	446.6	447.9	449.1	450.1	451.2	452.3	453.4	455.0
35°	422.9	424.5	426.2	427.8	429.4	430.9	432.3	433.7	435.1	436.4	438.4
37.5°	403.1	404.9	406.8	408.7	410.6	412.4	414.1	415.8	417.5	419.1	421.1
40°	390.2	392.0	393.8	395.5	397.4	399.2	401.1	403.0	405.0	406.9	408.9
42.5°	375.4	377.4	379.4	381.4	383.4	385.6	387.8	390.0	392.3	394.5	396.8
45°	352.6	355.2	357.8	360.4	363.0	365.6	368.2	370.8	373.4	376.0	378.3
47.5°	330.8	333.4	336.1	338.8	341.5	344.4	347.4	350.4	353.4	356.4	358.9
50°	315.0	318.0	321.0	324.1	327.1	330.1	333.1	336.1	339.1	342.1	344.8
52.5°	299.2	302.2	305.2	308.2	311.2	314.5	318.0	321.4	324.9	328.3	331.1
55°	276.2	279.0	281.9	284.8	287.6	291.1	295.2	299.4	303.5	307.6	310.4
57.5°	250.4	254.0	257.5	261.1	264.7	268.5	272.5	276.6	280.7	284.8	288.0
60°	233.6	237.2	240.7	244.3	247.9	251.9	256.4	260.9	265.5	270.0	273.1
62.5°	217.4	221.3	225.1	229.0	232.9	237.1	241.6	246.1	250.7	255.2	258.3
65°	191.1	195.5	199.9	204.2	208.7	213.2	217.8	222.4	227.1	231.8	235.2
67.5°	165.8	170.5	175.2	179.8	184.4	189.3	194.2	199.2	204.2	209.2	212.7
70°	148.5	153.2	157.9	162.6	167.2	172.1	177.3	182.5	187.7	193.0	196.6
72.5°	131.8	136.6	141.3	146.1	150.8	156.0	161.5	167.1	172.6	178.2	181.7
75°	106.0	111.1	116.1	121.2	126.3	131.7	137.4	143.2	149.0	154.7	158.6
77.5°	82.0	87.4	92.8	98.1	103.5	109.2	115.2	121.2	127.2	133.2	137.1
80°	67.2	72.6	78.2	83.7	89.1	94.8	100.9	106.9	113.0	119.0	123.1
82.5°	52.4	58.1	63.8	69.5	75.2	81.0	87.1	93.1	99.1	105.2	109.4
85°	32.6	38.4	44.2	49.9	55.7	61.6	67.8	74.0	80.2	86.3	90.4
87.5°	18.8	24.9	30.9	36.9	42.9	49.1	55.5	61.8	68.1	74.5	78.7
90°	12.6	20.4	28.1	35.8	43.6	51.2	58.7	66.2	73.8	81.3	86.5
92.5°	21.0	26.0	31.1	36.1	41.2	47.5	55.0	62.5	70.0	77.6	82.7
95°	58.6	56.2	53.8	51.3	48.9	50.6	56.4	62.3	68.0	73.9	78.8
97.5°	114.8	123.0	131.3	139.5	147.7	143.1	125.9	108.6	91.3	74.1	77.8
100°	157.7	165.0	172.2	179.5	186.7	178.9	156.0	133.1	110.3	87.4	87.5
102.5°	206.4	212.1	218.0	223.8	229.7	233.3	234.9	236.4	238.0	239.6	205.6
105°	282.7	286.6	290.6	294.5	298.5	303.5	309.6	315.7	321.8	327.9	333.1
107.5°	354.5	357.4	360.2	363.1	365.9	370.4	376.6	382.8	389.0	395.1	399.4
110°	402.6	405.1	407.7	410.2	412.7	417.0	423.0	429.0	435.1	441.1	444.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	449.2	452.0	454.8	457.6	460.4	464.4	469.5	474.7	479.8	485.0	488.0
115°	521.0	522.8	524.7	526.6	528.4	531.4	535.6	539.8	543.9	548.1	551.5
117.5°	586.2	587.8	589.4	590.9	592.5	595.5	600.1	604.6	609.1	613.6	616.4
120°	629.9	631.1	632.4	633.6	634.9	637.3	641.1	644.9	648.6	652.4	655.5
122.5°	671.1	671.8	672.3	672.9	673.4	675.7	679.8	683.8	687.9	691.9	694.9
125°	729.7	730.3	731.0	731.7	732.4	734.2	737.2	740.2	743.2	746.3	749.5
127.5°	785.4	785.5	785.6	785.7	785.8	787.6	791.2	794.7	798.3	801.8	804.2
130°	821.1	821.2	821.2	821.3	821.3	822.8	825.6	828.4	831.2	834.0	836.7
132.5°	854.2	854.4	854.7	854.9	855.2	856.5	859.0	861.6	864.1	866.6	869.2
135°	903.3	903.1	902.9	902.7	902.5	903.2	905.1	906.8	908.6	910.4	913.0
137.5°	947.3	947.2	947.2	947.1	947.1	947.8	949.1	950.5	951.8	953.2	955.6
140°	976.0	976.3	976.6	976.8	977.1	977.6	978.0	978.6	979.1	979.7	982.1
142.5°	1001.3	1002.0	1002.7	1003.5	1004.2	1004.6	1004.7	1004.9	1005.0	1005.2	1007.3
145°	1040.8	1041.2	1041.7	1042.2	1042.7	1042.9	1042.9	1042.9	1042.9	1042.9	1043.9
147.5°	1072.2	1073.2	1074.3	1075.2	1076.3	1076.7	1076.5	1076.3	1076.0	1075.9	1076.1
150°	1095.0	1095.7	1096.5	1097.1	1097.8	1098.0	1097.8	1097.6	1097.4	1097.2	1097.2
152.5°	1113.7	1114.4	1115.0	1115.6	1116.3	1116.3	1116.0	1115.6	1115.2	1114.9	1115.2
155°	1140.5	1140.7	1140.9	1141.1	1141.3	1141.1	1140.5	1139.9	1139.2	1138.6	1139.5
157.5°	1163.1	1163.0	1162.8	1162.8	1162.6	1162.2	1161.5	1160.9	1160.2	1159.4	1160.5
160°	1176.4	1175.8	1175.1	1174.6	1173.9	1173.5	1173.3	1173.1	1172.9	1172.7	1173.9
162.5°	1188.1	1187.4	1186.6	1185.8	1185.0	1184.6	1184.3	1184.2	1183.9	1183.8	1184.9
165°	1203.1	1202.1	1201.0	1200.0	1199.0	1198.5	1198.5	1198.5	1198.5	1198.5	1200.1
167.5°	1214.8	1213.8	1212.8	1211.6	1210.6	1210.0	1209.9	1209.7	1209.7	1209.5	1211.3
170°	1221.5	1220.3	1219.0	1217.8	1216.6	1216.1	1216.2	1216.5	1216.6	1216.9	1218.5
172.5°	1225.9	1224.6	1223.4	1222.2	1221.0	1220.4	1220.7	1220.9	1221.1	1221.3	1222.9
175°	1230.7	1229.5	1228.2	1227.0	1225.7	1225.3	1225.4	1225.7	1225.9	1226.1	1227.9
177.5°	1232.9	1231.8	1230.6	1229.5	1228.3	1227.9	1228.2	1228.5	1228.9	1229.2	1230.5
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	550.5	550.5	550.5	550.5	550.5	550.5	550.5	550.5
2.5°	548.6	549.3	550.1	550.4	550.3	550.2	550.1	550.0
5°	547.2	548.2	549.3	549.8	549.7	549.5	549.4	549.2
7.5°	544.2	545.4	546.7	547.2	547.1	546.9	546.8	546.7
10°	541.2	542.5	543.7	544.2	544.2	544.0	543.8	543.7
12.5°	537.1	538.2	539.3	539.9	539.9	539.8	539.8	539.8
15°	529.5	530.8	532.0	532.5	532.4	532.3	532.1	532.0
17.5°	520.3	521.6	522.8	523.4	523.3	523.2	523.1	523.0
20°	513.2	514.5	515.9	516.6	516.6	516.6	516.6	516.6
22.5°	504.8	506.1	507.5	508.3	508.5	508.7	509.0	509.2
25°	491.9	493.4	494.9	495.7	495.8	496.0	496.1	496.2
27.5°	477.4	478.7	480.1	480.9	481.1	481.3	481.4	481.6
30°	467.2	468.7	470.2	471.1	471.3	471.7	471.9	472.2
32.5°	456.8	458.5	460.3	461.2	461.5	461.8	462.1	462.3
35°	440.3	442.2	444.1	445.3	445.7	446.1	446.5	446.9
37.5°	423.1	425.0	427.0	428.2	428.6	429.0	429.4	429.9
40°	411.0	413.0	415.1	416.4	416.9	417.5	418.0	418.6
42.5°	399.1	401.3	403.6	405.0	405.4	405.8	406.3	406.7
45°	380.7	383.0	385.3	386.8	387.5	388.2	388.9	389.6
47.5°	361.2	363.7	366.1	367.7	368.5	369.3	370.2	371.0
50°	347.6	350.4	353.1	354.9	355.7	356.5	357.4	358.1
52.5°	333.8	336.5	339.3	341.0	341.9	342.7	343.5	344.4
55°	313.1	315.8	318.5	320.4	321.2	322.0	322.8	323.6
57.5°	291.3	294.6	297.9	299.8	300.6	301.3	302.1	302.9
60°	276.3	279.5	282.6	284.7	285.8	286.9	288.0	289.1
62.5°	261.5	264.7	267.8	269.9	271.0	272.1	273.2	274.3
65°	238.6	242.1	245.5	247.7	248.8	249.9	251.0	252.2
67.5°	216.2	219.7	223.2	225.4	226.5	227.5	228.6	229.7
70°	200.3	204.1	207.7	210.1	211.0	212.0	212.9	213.9
72.5°	185.3	188.9	192.5	194.8	195.9	196.9	198.0	199.1
75°	162.4	166.2	170.1	172.6	173.8	175.1	176.3	177.5
77.5°	141.1	145.0	148.9	151.5	152.7	154.1	155.3	156.7
80°	127.2	131.3	135.4	138.0	139.1	140.2	141.3	142.4
82.5°	113.6	117.8	122.1	124.8	126.0	127.1	128.3	129.6
85°	94.5	98.6	102.7	105.5	106.9	108.2	109.6	111.0
87.5°	82.9	87.1	91.3	94.1	95.4	96.6	97.9	99.3
90°	91.7	96.9	102.1	105.4	106.9	108.4	110.0	111.5
92.5°	87.8	92.8	97.9	101.1	102.3	103.5	104.6	105.8
95°	83.7	88.6	93.6	96.8	98.2	99.7	101.1	102.5
97.5°	81.5	85.2	89.0	91.5	92.9	94.3	95.6	97.0
100°	87.8	88.0	88.2	89.0	90.1	91.3	92.4	93.6
102.5°	171.7	137.8	103.9	87.4	88.5	89.6	90.7	91.8
105°	338.4	343.6	349.0	348.4	342.1	335.9	329.6	323.4
107.5°	403.7	408.0	412.3	415.3	417.0	418.8	420.6	422.3
110°	448.2	451.8	455.3	458.0	459.6	461.4	463.1	464.8



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CATALOG NUMBER: SA4XXDIP-C575D1205U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	490.9	493.8	496.9	499.2	501.1	503.0	504.9	506.8
115°	555.0	558.4	561.8	564.0	565.0	565.9	566.9	567.8
117.5°	619.2	621.9	624.7	626.6	627.6	628.6	629.6	630.7
120°	658.7	661.9	665.0	666.9	667.7	668.3	669.0	669.7
122.5°	697.9	700.8	703.9	705.7	706.2	706.8	707.3	708.0
125°	752.7	755.9	759.1	761.3	762.3	763.3	764.4	765.4
127.5°	806.5	808.9	811.2	812.8	813.6	814.3	815.1	815.9
130°	839.3	842.0	844.7	846.4	847.2	848.1	848.9	849.7
132.5°	871.8	874.3	876.9	878.5	879.2	879.8	880.4	881.1
135°	915.6	918.2	920.8	922.7	923.9	925.2	926.4	927.6
137.5°	958.1	960.5	963.0	964.5	965.0	965.6	966.2	966.8
140°	984.5	986.9	989.3	990.9	991.8	992.7	993.6	994.5
142.5°	1009.2	1011.2	1013.3	1014.5	1015.2	1015.8	1016.4	1017.1
145°	1045.0	1046.0	1047.0	1048.0	1048.9	1049.9	1050.9	1051.9
147.5°	1076.4	1076.7	1077.0	1077.4	1078.1	1078.7	1079.3	1080.0
150°	1097.2	1097.2	1097.2	1097.3	1097.5	1097.7	1098.0	1098.1
152.5°	1115.6	1115.9	1116.2	1116.3	1116.2	1116.0	1115.9	1115.8
155°	1140.3	1141.1	1141.9	1142.0	1141.4	1140.7	1140.2	1139.6
157.5°	1161.6	1162.6	1163.7	1163.7	1162.6	1161.6	1160.5	1159.4
160°	1175.1	1176.4	1177.6	1177.6	1176.4	1175.1	1173.9	1172.7
162.5°	1186.2	1187.4	1188.7	1188.6	1187.2	1185.8	1184.4	1183.0
165°	1201.7	1203.4	1205.0	1204.9	1203.1	1201.2	1199.4	1197.5
167.5°	1213.1	1214.9	1216.7	1216.6	1214.6	1212.5	1210.5	1208.4
170°	1220.1	1221.8	1223.4	1223.2	1221.1	1219.1	1217.1	1215.0
172.5°	1224.6	1226.2	1227.8	1227.6	1225.3	1223.1	1220.9	1218.7
175°	1229.8	1231.6	1233.4	1233.1	1230.7	1228.2	1225.7	1223.3
177.5°	1231.8	1233.1	1234.5	1234.1	1232.2	1230.2	1228.2	1226.3
180°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7

(END OF REPORT)