

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: P332610-927

Luminaire Tested: **SA4XXDIP-C795D1035U927-4F0-1E-UDD-D**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332610-927  
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-C795D1035U927-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5838.7 lumens  
Efficiency: N/A  
Efficacy: 112.3 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: General Diffuse

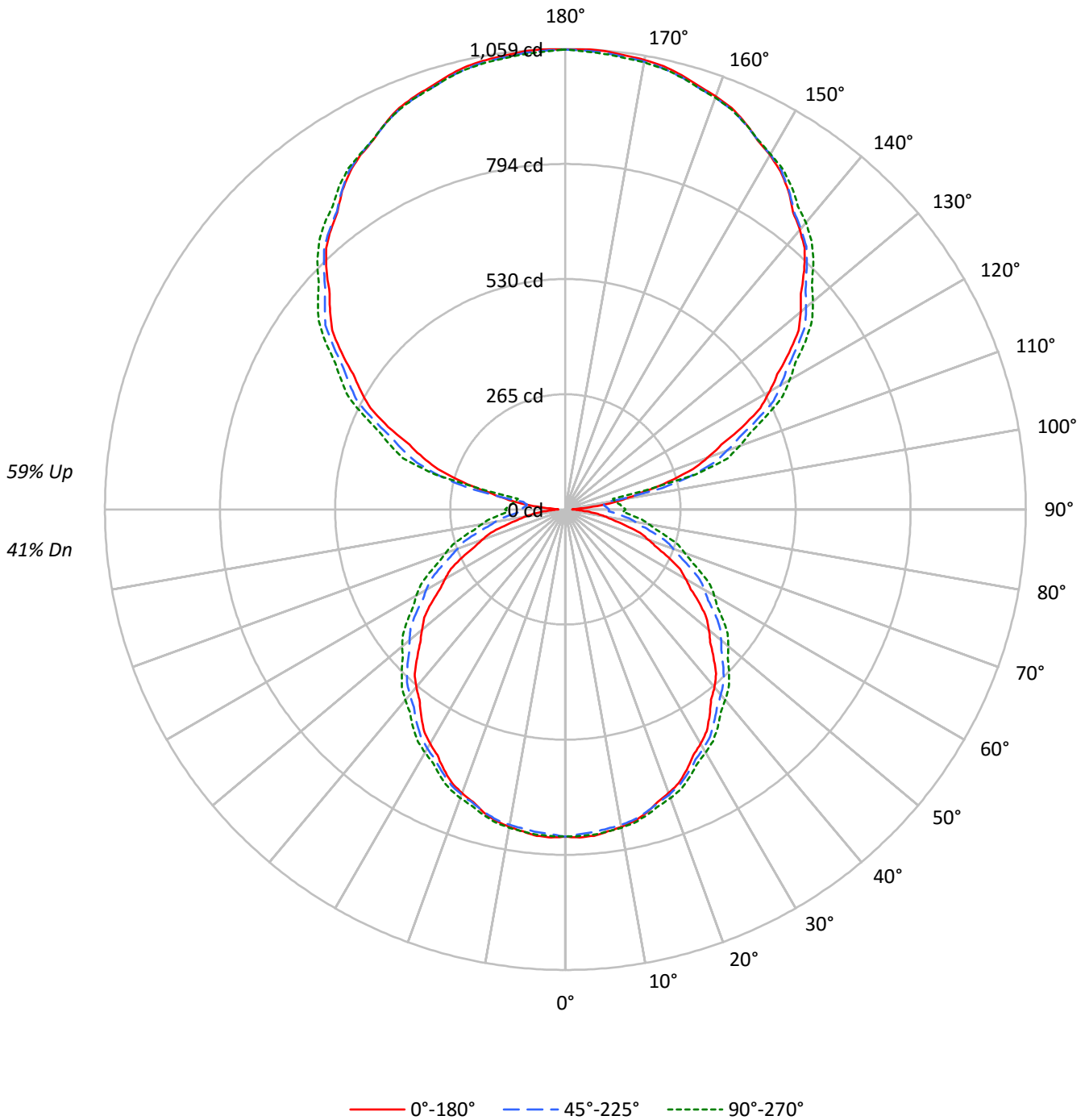
Input Watts (W): 52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P332610-927

CATALOG NUMBER: SA4XXDIP-C795D1035U927-4F0-1E-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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				41
1	95	90	86	82	86	82	79	75	67	65	62	53	52	50	41	40	38				33	
2	86	78	72	67	78	71	66	61	58	54	51	46	44	41	35	33	32				27	
3	78	68	61	55	71	62	56	51	51	46	42	41	37	34	31	29	27				22	
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	28	25	23				19	
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20				16	
6	60	48	40	34	54	44	37	31	36	31	27	29	25	22	22	19	17				14	
7	55	43	35	29	50	40	32	27	33	27	23	26	22	19	20	17	15				12	
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	19	16	13				11	
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12				10	
10	45	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11				9	

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

	0°	45°	90°
0°	6075	6075	6075
5°	6093	5937	5954
10°	6056	5839	5835
15°	6002	5727	5695
20°	5920	5603	5561
25°	5828	5464	5411
30°	5728	5326	5258
35°	5615	5184	5124
40°	5525	5049	4984
45°	5391	4925	4864
50°	5277	4781	4738
55°	5160	4647	4588
60°	4976	4475	4453
65°	4776	4290	4285
70°	4532	4078	4091
75°	4196	3847	3915
80°	3817	3624	3742
85°	3344	3427	3643



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.3	1.2
10°-20°	204.2	3.5
20°-30°	308.7	5.3
30°-40°	373.5	6.4
40°-50°	394.9	6.8
50°-60°	371.6	6.4
60°-70°	308.3	5.3
70°-80°	216.6	3.7
80°-90°	125.5	2.1
90°-100°	108.9	1.9
100°-110°	284.4	4.9
110°-120°	477.2	8.2
120°-130°	580.3	9.9
130°-140°	607.9	10.4
140°-150°	562.0	9.6
150°-160°	451.8	7.7
160°-170°	291.4	5.0
170°-180°	100.4	1.7
0°-30°	584.1	10.0
0°-40°	957.6	16.4
0°-60°	1724.1	29.5
0°-90°	2374.5	40.7
90°-120°	870.4	14.9
90°-150°	2620.6	44.9
90°-180°	3464.0	59.3
0°-180°	5838.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	753	751	745	751	751	71
15°	722	723	720	728	727	203
25°	661	666	668	677	678	304
35°	578	588	597	608	611	362
45°	482	498	514	528	532	372
55°	378	396	420	437	442	336
65°	261	288	317	337	345	259
75°	145	176	212	234	243	154
85°	45	80	118	142	152	48
90°	16	58	101	129	138	11
95°	54	57	91	117	127	65
105°	246	268	302	328	309	258
115°	450	460	486	505	512	443
125°	628	631	650	668	674	561
135°	777	776	785	800	807	598
145°	894	896	896	902	907	559
155°	980	980	978	981	979	452
165°	1034	1030	1030	1035	1029	292
175°	1057	1053	1053	1060	1051	101
180°	1057	1057	1057	1057	1057	



TEST NUMBER: P332610-927

CATALOG NUMBER: SA4XXDIP-C795D1035U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	752.5	752.5	752.5	752.5	752.5	752.5	752.5	752.5	752.5	752.5	752.5
2.5°	755.2	754.7	754.2	753.8	753.4	752.6	751.3	750.1	748.9	747.7	748.8
5°	753.3	752.7	752.2	751.6	751.1	750.1	748.8	747.5	746.2	744.9	746.4
7.5°	746.9	746.6	746.2	745.9	745.5	744.8	743.8	742.7	741.6	740.5	742.2
10°	741.5	741.3	741.2	740.9	740.8	740.2	739.3	738.3	737.4	736.4	738.2
12.5°	734.1	734.0	734.0	734.0	734.0	733.6	733.0	732.3	731.7	731.0	732.6
15°	722.2	722.3	722.5	722.7	722.9	722.7	722.2	721.6	721.0	720.4	722.2
17.5°	705.8	706.3	706.9	707.5	708.1	708.2	708.1	708.1	707.9	707.8	709.6
20°	694.3	694.9	695.5	696.0	696.6	697.0	697.1	697.3	697.5	697.7	699.6
22.5°	681.5	682.2	682.9	683.7	684.4	684.9	685.2	685.6	685.9	686.3	688.1
25°	660.6	661.7	662.9	664.0	665.1	666.0	666.5	667.1	667.7	668.2	670.3
27.5°	637.4	639.0	640.6	642.3	644.0	645.2	646.1	646.9	647.8	648.6	650.5
30°	621.9	623.4	624.9	626.4	627.9	629.2	630.6	631.8	633.2	634.5	636.5
32.5°	605.0	606.8	608.6	610.4	612.2	613.8	615.3	616.7	618.2	619.6	622.0
35°	578.1	580.3	582.6	584.8	587.0	589.1	591.0	592.9	594.7	596.6	599.2
37.5°	550.9	553.5	556.1	558.6	561.3	563.7	566.0	568.3	570.7	573.0	575.7
40°	533.4	535.8	538.2	540.7	543.1	545.7	548.3	550.9	553.5	556.1	559.0
42.5°	513.2	515.9	518.6	521.3	524.1	527.0	530.0	533.1	536.2	539.2	542.4
45°	482.0	485.5	489.1	492.7	496.2	499.8	503.4	506.9	510.4	514.0	517.2
47.5°	452.2	455.8	459.5	463.2	466.8	470.7	474.8	479.0	483.1	487.2	490.5
50°	430.6	434.7	438.8	442.9	447.0	451.1	455.3	459.4	463.5	467.6	471.4
52.5°	409.0	413.1	417.2	421.4	425.5	429.9	434.6	439.3	444.1	448.8	452.5
55°	377.5	381.4	385.4	389.3	393.2	398.0	403.6	409.2	414.9	420.5	424.2
57.5°	342.3	347.1	352.0	356.9	361.7	366.9	372.6	378.1	383.7	389.3	393.7
60°	319.3	324.2	329.1	334.0	338.8	344.4	350.5	356.7	362.9	369.1	373.4
62.5°	297.1	302.5	307.8	313.1	318.4	324.2	330.3	336.5	342.7	348.9	353.2
65°	261.2	267.2	273.2	279.2	285.2	291.4	297.7	304.1	310.5	316.8	321.5
67.5°	226.6	233.1	239.4	245.7	252.2	258.7	265.5	272.4	279.2	286.0	290.7
70°	203.0	209.5	215.8	222.2	228.5	235.3	242.4	249.5	256.6	263.7	268.8
72.5°	180.1	186.6	193.2	199.7	206.2	213.3	220.9	228.4	236.0	243.5	248.4
75°	145.0	151.9	158.8	165.7	172.6	180.1	187.9	195.7	203.7	211.5	216.7
77.5°	112.1	119.4	126.7	134.1	141.4	149.2	157.5	165.7	174.0	182.2	187.5
80°	91.8	99.3	106.8	114.3	121.8	129.7	137.9	146.2	154.4	162.6	168.3
82.5°	71.6	79.4	87.2	95.0	102.7	110.8	119.1	127.3	135.5	143.8	149.5
85°	44.7	52.5	60.4	68.3	76.1	84.3	92.7	101.1	109.6	118.0	123.6
87.5°	25.4	33.4	41.4	49.5	57.5	65.8	74.2	82.7	91.3	99.7	105.4
90°	15.8	25.3	34.7	44.1	53.6	63.0	72.4	81.9	91.3	100.8	107.3
92.5°	22.7	29.6	36.4	43.3	50.1	58.3	67.7	77.2	86.7	96.2	102.5
95°	54.4	54.7	54.8	55.1	55.3	59.3	67.2	75.0	82.9	90.7	96.8
97.5°	102.3	111.4	120.4	129.4	138.5	137.0	125.0	113.0	101.0	89.0	94.0
100°	138.9	147.0	155.0	163.0	171.1	166.6	149.6	132.8	115.8	98.9	100.9
102.5°	180.7	187.3	193.9	200.5	207.1	212.4	216.3	220.3	224.3	228.3	201.0
105°	245.7	250.4	255.2	260.0	264.8	271.1	278.9	286.8	294.5	302.4	308.6
107.5°	307.3	310.9	314.5	318.1	321.7	327.3	335.1	342.9	350.6	358.4	363.8
110°	348.4	351.5	354.7	357.8	361.0	366.4	374.0	381.6	389.2	396.8	401.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	388.2	391.5	394.7	398.0	401.2	406.3	413.0	419.8	426.5	433.2	437.4
115°	449.5	451.7	453.9	456.1	458.4	462.3	468.2	474.0	479.8	485.6	490.1
117.5°	505.5	507.2	508.9	510.6	512.3	516.2	522.1	528.1	534.1	540.0	543.8
120°	542.7	544.0	545.3	546.5	547.8	551.0	556.3	561.6	566.8	572.1	576.2
122.5°	578.2	578.7	579.2	579.8	580.4	583.3	588.7	594.1	599.4	604.8	608.7
125°	628.1	628.6	629.2	629.6	630.2	632.6	636.9	641.3	645.5	649.9	654.0
127.5°	676.0	676.0	676.0	676.0	676.0	678.2	682.5	687.0	691.4	695.8	699.0
130°	706.4	706.3	706.3	706.3	706.3	708.1	711.6	715.1	718.7	722.2	725.7
132.5°	734.8	735.0	735.1	735.2	735.3	737.0	740.0	743.1	746.2	749.2	752.6
135°	776.7	776.5	776.3	776.2	775.9	776.9	778.9	780.9	782.9	785.0	788.3
137.5°	814.4	814.4	814.3	814.1	814.0	814.7	816.1	817.5	818.9	820.3	823.4
140°	839.2	839.3	839.5	839.6	839.8	840.2	840.7	841.2	841.8	842.3	845.3
142.5°	860.6	861.2	861.8	862.4	863.0	863.3	863.5	863.6	863.6	863.7	866.3
145°	894.5	894.8	895.2	895.5	895.8	896.0	896.0	896.0	896.0	896.0	897.3
147.5°	921.5	922.3	923.1	923.9	924.7	925.0	924.8	924.6	924.5	924.3	924.6
150°	941.1	941.7	942.1	942.7	943.2	943.3	943.2	943.0	942.9	942.6	942.6
152.5°	956.9	957.4	957.9	958.5	959.0	959.1	958.8	958.5	958.1	957.8	958.1
155°	979.9	980.0	980.2	980.3	980.5	980.3	979.9	979.3	978.7	978.3	978.9
157.5°	999.3	999.2	999.0	998.9	998.9	998.5	997.9	997.3	996.7	996.1	997.0
160°	1010.7	1010.1	1009.6	1009.1	1008.5	1008.2	1008.1	1007.8	1007.7	1007.5	1008.5
162.5°	1020.8	1020.1	1019.5	1018.7	1018.1	1017.7	1017.5	1017.3	1017.2	1017.0	1018.0
165°	1033.6	1032.7	1031.8	1030.9	1030.1	1029.6	1029.6	1029.6	1029.6	1029.6	1031.0
167.5°	1043.7	1042.8	1041.9	1041.0	1040.1	1039.6	1039.4	1039.3	1039.3	1039.1	1040.7
170°	1049.4	1048.4	1047.3	1046.2	1045.2	1044.7	1044.9	1045.1	1045.3	1045.4	1046.9
172.5°	1053.2	1052.2	1051.1	1050.0	1049.0	1048.5	1048.7	1048.9	1049.1	1049.2	1050.7
175°	1057.3	1056.3	1055.2	1054.2	1053.1	1052.7	1052.8	1053.0	1053.2	1053.4	1054.9
177.5°	1059.2	1058.2	1057.2	1056.3	1055.3	1054.9	1055.2	1055.5	1055.7	1056.1	1057.2
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	752.5	752.5	752.5	752.5	752.5	752.5	752.5	752.5
2.5°	749.8	750.9	751.9	752.4	752.3	752.1	751.9	751.8
5°	747.9	749.4	750.8	751.5	751.3	751.1	751.0	750.8
7.5°	743.9	745.5	747.3	748.0	747.8	747.6	747.4	747.3
10°	739.8	741.5	743.2	743.9	743.8	743.5	743.4	743.2
12.5°	734.1	735.7	737.2	737.9	737.9	737.8	737.8	737.8
15°	723.8	725.5	727.1	727.9	727.8	727.5	727.4	727.1
17.5°	711.2	713.0	714.7	715.5	715.3	715.2	715.0	714.9
20°	701.4	703.3	705.2	706.2	706.2	706.2	706.2	706.2
22.5°	690.0	691.8	693.7	694.8	695.1	695.4	695.7	696.0
25°	672.3	674.4	676.4	677.6	677.7	677.9	678.1	678.3
27.5°	652.4	654.3	656.3	657.4	657.6	657.8	658.1	658.2
30°	638.6	640.6	642.7	644.0	644.4	644.7	645.1	645.5
32.5°	624.4	626.8	629.1	630.5	630.8	631.2	631.6	632.0
35°	601.8	604.4	607.0	608.6	609.2	609.7	610.4	610.9
37.5°	578.3	581.0	583.6	585.3	585.8	586.5	587.0	587.6
40°	561.7	564.6	567.4	569.1	569.9	570.6	571.4	572.1
42.5°	545.5	548.6	551.7	553.6	554.1	554.8	555.4	556.0
45°	520.4	523.6	526.7	528.8	529.7	530.7	531.6	532.5
47.5°	493.8	497.1	500.4	502.6	503.7	504.9	506.0	507.1
50°	475.2	478.9	482.6	485.1	486.2	487.4	488.5	489.6
52.5°	456.3	460.0	463.7	466.2	467.3	468.4	469.5	470.7
55°	427.9	431.7	435.5	437.9	439.0	440.1	441.2	442.4
57.5°	398.2	402.7	407.1	409.9	410.9	411.9	413.0	414.1
60°	377.7	382.0	386.3	389.2	390.7	392.2	393.7	395.2
62.5°	357.4	361.8	366.1	369.0	370.5	372.0	373.4	374.9
65°	326.2	330.9	335.6	338.7	340.2	341.7	343.1	344.6
67.5°	295.5	300.2	305.0	308.1	309.6	311.0	312.5	313.9
70°	273.9	278.9	284.0	287.2	288.4	289.8	291.0	292.4
72.5°	253.3	258.3	263.2	266.3	267.8	269.3	270.7	272.2
75°	222.0	227.2	232.5	235.9	237.7	239.3	241.0	242.6
77.5°	192.8	198.1	203.4	207.0	208.8	210.6	212.4	214.2
80°	173.9	179.5	185.1	188.6	190.1	191.6	193.1	194.6
82.5°	155.3	161.1	166.8	170.6	172.1	173.8	175.5	177.1
85°	129.2	134.8	140.5	144.2	146.1	147.9	149.8	151.7
87.5°	111.0	116.6	122.2	126.0	127.7	129.4	131.1	132.8
90°	113.8	120.3	126.7	130.9	132.8	134.6	136.5	138.3
92.5°	108.8	115.2	121.4	125.4	127.0	128.6	130.2	131.7
95°	102.9	109.0	115.2	119.1	121.0	122.9	124.7	126.6
97.5°	99.0	104.0	109.0	112.4	114.2	116.0	117.8	119.5
100°	103.0	105.0	107.1	108.8	110.4	111.9	113.4	114.9
102.5°	173.6	146.3	119.0	106.1	107.6	109.1	110.6	112.1
105°	314.9	321.2	327.4	328.1	323.3	318.5	313.6	308.8
107.5°	369.1	374.5	379.9	383.6	385.6	387.6	389.6	391.7
110°	406.1	410.7	415.4	418.7	420.8	422.8	424.8	426.8





TEST NUMBER: P332610-927

CATALOG NUMBER: SA4XXDIP-C795D1035U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	441.4	445.5	449.6	452.7	454.9	457.1	459.2	461.4
115°	494.6	499.0	503.5	506.4	507.7	509.1	510.3	511.7
117.5°	547.7	551.5	555.3	557.9	559.4	560.8	562.2	563.6
120°	580.3	584.4	588.5	591.1	592.2	593.4	594.5	595.7
122.5°	612.7	616.6	620.6	623.1	624.1	625.1	626.1	627.1
125°	658.1	662.2	666.2	668.9	670.3	671.5	672.9	674.1
127.5°	702.3	705.6	708.8	711.1	712.2	713.3	714.5	715.6
130°	729.3	732.8	736.3	738.7	739.8	740.9	742.0	743.1
132.5°	756.0	759.4	762.8	764.9	766.0	766.9	767.9	768.9
135°	791.6	795.0	798.4	800.7	802.2	803.7	805.2	806.7
137.5°	826.6	829.7	832.7	834.7	835.6	836.4	837.3	838.0
140°	848.3	851.2	854.1	856.2	857.3	858.4	859.5	860.6
142.5°	868.8	871.3	873.9	875.5	876.3	877.2	878.0	878.8
145°	898.6	899.9	901.2	902.4	903.5	904.6	905.7	906.8
147.5°	924.9	925.2	925.4	926.0	926.8	927.6	928.4	929.1
150°	942.6	942.6	942.6	942.7	942.9	943.1	943.3	943.4
152.5°	958.4	958.7	958.9	959.0	958.9	958.9	958.7	958.6
155°	979.6	980.3	981.0	981.1	980.6	980.1	979.5	979.1
157.5°	997.9	998.9	999.7	999.7	998.9	997.9	997.0	996.1
160°	1009.6	1010.7	1011.7	1011.7	1010.7	1009.6	1008.5	1007.5
162.5°	1019.1	1020.2	1021.2	1021.1	1019.9	1018.7	1017.6	1016.4
165°	1032.5	1033.9	1035.2	1035.1	1033.6	1032.0	1030.4	1028.8
167.5°	1042.2	1043.8	1045.3	1045.2	1043.5	1041.7	1039.9	1038.2
170°	1048.3	1049.6	1051.1	1050.9	1049.2	1047.4	1045.6	1043.9
172.5°	1052.1	1053.4	1054.9	1054.6	1052.7	1050.8	1048.9	1047.0
175°	1056.5	1058.1	1059.7	1059.4	1057.3	1055.2	1053.1	1051.0
177.5°	1058.3	1059.4	1060.6	1060.3	1058.6	1056.9	1055.2	1053.5
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3

(END OF REPORT)