

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: P333146

Luminaire Tested: **S125DIP-S375D1035U835-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333146  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S375D1035U835-4F0-1E-UDD-D1  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5042.7 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

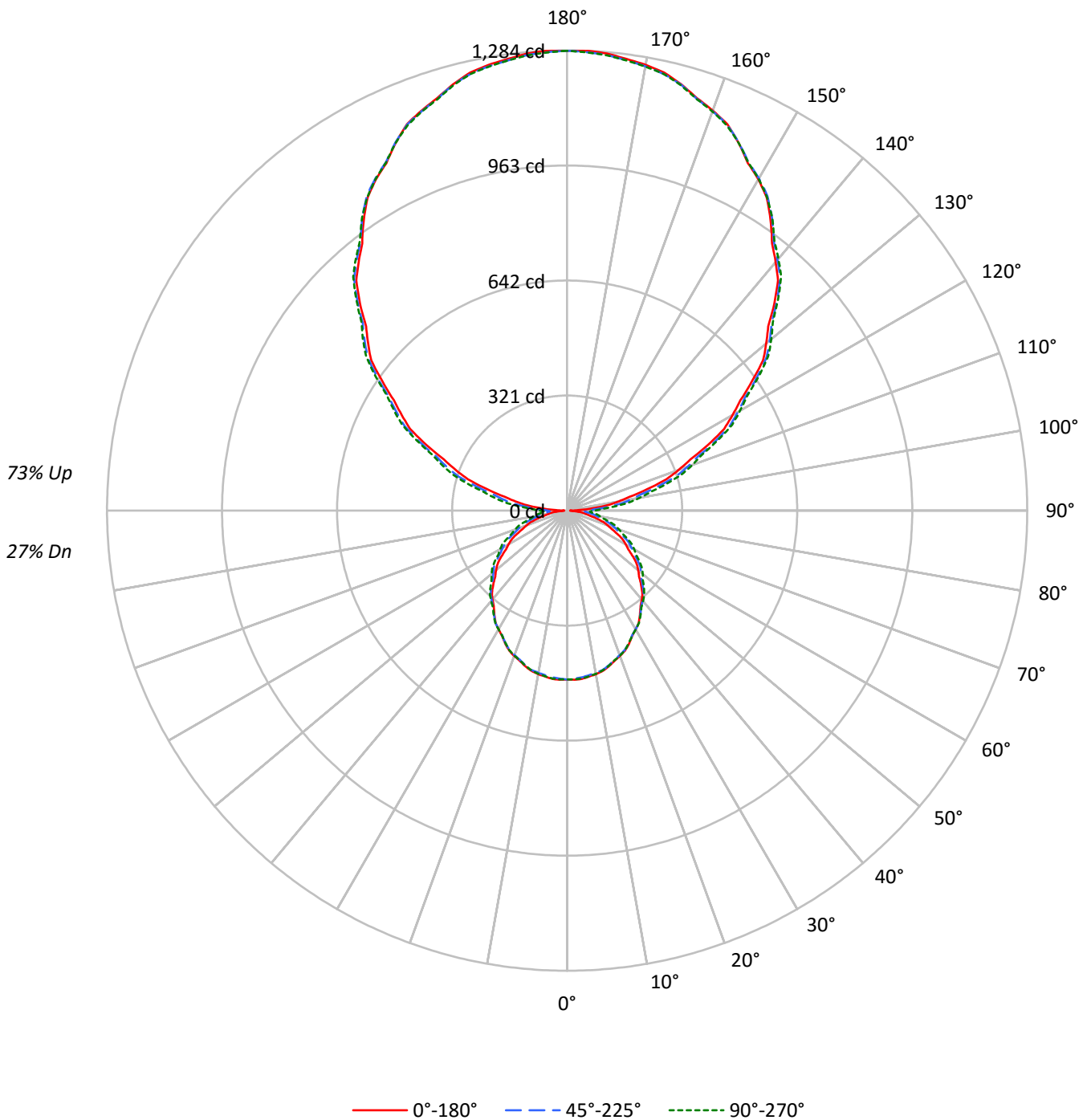
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333146

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	30	30	29
2	84	76	70	65	75	68	63	59	53	50	47	39	37	35	27	25	24
3	76	67	60	54	68	60	54	49	47	43	39	35	32	29	23	22	20
4	70	59	51	45	62	53	46	41	41	37	33	31	28	25	21	19	17
5	64	52	45	39	57	47	40	35	37	32	28	27	24	22	19	17	15
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	12
8	50	38	31	25	45	34	28	23	27	22	19	20	17	15	14	12	10
9	46	35	27	22	41	31	25	21	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	29	22	18	23	18	15	17	14	12	12	10	8

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

	0°	45°	90°
0°	3044	3044	3044
5°	3051	2988	2998
10°	3028	2935	2930
15°	2993	2871	2845
20°	2945	2792	2759
25°	2886	2707	2654
30°	2816	2615	2559
35°	2751	2529	2470
40°	2685	2439	2382
45°	2609	2362	2304
50°	2537	2279	2234
55°	2450	2199	2154
60°	2356	2110	2070
65°	2259	2016	1977
70°	2147	1887	1882
75°	1968	1763	1763
80°	1736	1613	1635
85°	1520	1511	1594



TEST NUMBER: P333146

CATALOG NUMBER: S125DIP-S375D1035U835-4F0-1E-UDD-D1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	0.9
10°-20°	126.5	2.5
20°-30°	188.2	3.7
30°-40°	222.9	4.4
40°-50°	230.5	4.6
50°-60°	212.3	4.2
60°-70°	171.6	3.4
70°-80°	114.9	2.3
80°-90°	62.4	1.2
90°-100°	119.4	2.4
100°-110°	278.4	5.5
110°-120°	446.3	8.9
120°-130°	575.0	11.4
130°-140°	637.9	12.6
140°-150°	622.0	12.3
150°-160°	521.7	10.3
160°-170°	346.8	6.9
170°-180°	121.4	2.4
0°-30°	359.3	7.1
0°-40°	582.2	11.5
0°-60°	1025.0	20.3
0°-90°	1373.9	27.2
90°-120°	844.1	16.7
90°-150°	2678.9	53.1
90°-180°	3669.0	72.8
0°-180°	5042.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	471	470	467	471	470	45
15°	450	450	447	450	448	127
25°	409	410	408	409	407	188
35°	354	357	356	357	357	221
45°	292	297	299	302	303	225
55°	224	232	239	244	246	200
65°	154	165	176	183	185	153
75°	85	97	112	121	123	90
85°	25	41	57	67	71	27
90°	8	31	54	69	76	9
95°	71	86	111	127	133	74
105°	232	245	264	279	286	247
115°	433	441	454	461	463	428
125°	630	636	646	651	652	564
135°	818	823	827	833	832	630
145°	990	993	996	998	998	618
155°	1132	1132	1133	1137	1132	521
165°	1231	1229	1230	1233	1228	347
175°	1280	1276	1276	1281	1275	122
180°	1283	1283	1283	1283	1283	



TEST NUMBER: P333146

CATALOG NUMBER: S125DIP-S375D1035U835-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	472.5	472.3	472.2	472.0	471.9	471.5	470.9	470.3	469.8	469.2	469.8
5°	471.4	471.2	471.0	470.8	470.6	470.1	469.4	468.7	468.0	467.2	468.1
7.5°	467.2	467.2	467.1	467.0	466.9	466.5	465.8	465.0	464.3	463.5	464.3
10°	463.5	463.5	463.5	463.5	463.5	463.1	462.3	461.5	460.7	459.8	460.6
12.5°	458.4	458.5	458.5	458.6	458.7	458.4	457.8	457.1	456.4	455.8	456.3
15°	450.1	450.2	450.3	450.5	450.6	450.2	449.5	448.8	448.1	447.4	448.0
17.5°	439.4	439.6	439.8	440.0	440.2	440.0	439.3	438.5	437.8	437.1	437.6
20°	431.7	431.9	432.1	432.3	432.5	432.2	431.5	430.8	430.1	429.3	429.7
22.5°	422.8	423.2	423.5	423.9	424.3	424.0	423.2	422.4	421.6	420.8	421.2
25°	409.0	409.3	409.6	409.9	410.2	410.1	409.5	408.9	408.2	407.6	408.0
27.5°	393.7	394.1	394.6	395.0	395.5	395.4	394.7	394.0	393.3	392.6	392.8
30°	382.2	382.8	383.4	384.1	384.7	384.7	384.1	383.4	382.8	382.2	382.4
32.5°	371.9	372.4	372.9	373.5	374.0	374.0	373.6	373.1	372.7	372.2	372.4
35°	354.0	354.7	355.5	356.2	356.9	357.1	356.8	356.5	356.2	355.9	356.2
37.5°	336.2	336.8	337.5	338.1	338.8	339.1	339.0	338.9	338.8	338.7	339.1
40°	324.0	324.8	325.6	326.4	327.3	327.6	327.5	327.4	327.3	327.2	327.6
42.5°	310.7	311.7	312.8	313.9	314.9	315.6	315.8	316.0	316.3	316.5	317.0
45°	291.6	292.8	293.9	295.0	296.1	297.0	297.5	298.0	298.5	299.0	299.7
47.5°	272.1	273.2	274.2	275.3	276.3	277.3	278.2	279.0	279.9	280.8	281.9
50°	258.8	259.9	261.1	262.2	263.3	264.5	265.6	266.7	267.8	269.0	270.1
52.5°	244.8	246.1	247.5	248.9	250.3	251.6	253.0	254.4	255.8	257.1	258.4
55°	224.1	225.8	227.4	229.1	230.7	232.4	234.0	235.6	237.3	238.9	240.1
57.5°	203.1	205.0	207.0	209.0	211.0	212.9	214.8	216.7	218.6	220.4	221.7
60°	189.0	191.1	193.1	195.2	197.2	199.3	201.3	203.4	205.5	207.5	209.0
62.5°	175.3	177.4	179.5	181.5	183.6	185.7	187.9	190.1	192.4	194.6	196.3
65°	154.4	156.7	159.1	161.4	163.8	166.2	168.7	171.2	173.6	176.1	177.6
67.5°	134.6	136.9	139.1	141.4	143.7	146.1	148.6	151.1	153.6	156.1	158.0
70°	120.2	122.5	124.9	127.2	129.6	132.1	134.8	137.5	140.1	142.8	144.8
72.5°	106.1	108.6	111.0	113.4	115.9	118.6	121.5	124.4	127.3	130.2	132.4
75°	85.0	87.7	90.4	93.0	95.7	98.7	102.0	105.3	108.6	111.8	113.9
77.5°	64.8	67.9	71.0	74.0	77.1	80.2	83.4	86.6	89.7	92.9	95.2
80°	52.2	55.3	58.4	61.5	64.5	67.8	71.3	74.8	78.3	81.8	84.1
82.5°	40.8	44.0	47.3	50.5	53.7	57.2	60.7	64.3	67.9	71.4	73.6
85°	25.4	28.8	32.2	35.6	39.0	42.5	46.1	49.7	53.3	56.8	59.1
87.5°	14.6	18.3	21.9	25.5	29.2	32.9	36.7	40.5	44.3	48.1	50.7
90°	8.4	13.5	18.5	23.6	28.6	33.7	38.7	43.8	48.8	53.9	57.3
92.5°	30.8	35.1	39.4	43.7	47.9	52.8	58.3	63.8	69.3	74.8	78.5
95°	70.9	74.0	77.1	80.2	83.4	87.8	93.5	99.2	104.9	110.6	114.4
97.5°	113.3	115.9	118.4	121.0	123.6	128.1	134.5	141.0	147.4	153.8	157.4
100°	144.9	147.0	149.2	151.3	153.5	157.6	163.8	170.0	176.2	182.3	186.5
102.5°	178.8	181.7	184.6	187.5	190.3	194.1	198.8	203.5	208.1	212.8	217.0
105°	231.8	234.5	237.3	240.0	242.8	246.4	250.8	255.2	259.6	264.0	267.4
107.5°	290.3	292.8	295.3	297.8	300.4	303.6	307.6	311.6	315.5	319.5	322.2
110°	330.7	333.0	335.4	337.7	340.1	343.0	346.5	350.1	353.6	357.2	359.8



TEST NUMBER: P333146

CATALOG NUMBER: S125DIP-S375D1035U835-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	372.2	373.8	375.4	376.9	378.5	381.1	384.7	388.3	392.0	395.6	397.8
115°	433.1	434.7	436.3	437.9	439.5	441.8	445.0	448.1	451.2	454.3	455.9
117.5°	494.1	495.0	495.8	496.7	497.6	499.5	502.4	505.3	508.3	511.2	513.1
120°	532.4	533.9	535.3	536.7	538.1	540.1	542.7	545.3	547.9	550.4	552.2
122.5°	573.6	574.1	574.7	575.2	575.8	577.5	580.3	583.2	586.0	588.9	590.4
125°	629.8	631.0	632.3	633.5	634.7	636.5	638.8	641.0	643.3	645.6	646.8
127.5°	689.3	689.9	690.6	691.2	691.9	693.2	695.1	697.1	699.0	701.0	702.3
130°	725.2	726.2	727.2	728.2	729.2	730.7	732.5	734.4	736.3	738.2	739.4
132.5°	760.8	762.6	764.4	766.2	768.0	769.4	770.4	771.4	772.4	773.4	774.7
135°	817.6	818.8	820.0	821.3	822.5	823.6	824.5	825.5	826.4	827.3	828.7
137.5°	871.0	872.2	873.4	874.6	875.8	876.8	877.7	878.5	879.3	880.2	881.7
140°	905.0	906.1	907.2	908.3	909.4	910.3	911.1	911.9	912.6	913.4	915.0
142.5°	939.3	940.2	941.0	941.9	942.7	943.6	944.4	945.3	946.2	947.0	948.3
145°	989.8	990.6	991.4	992.2	993.0	993.7	994.4	995.0	995.7	996.4	996.9
147.5°	1036.1	1036.6	1037.1	1037.6	1038.0	1038.6	1039.1	1039.6	1040.1	1040.7	1041.4
150°	1067.2	1067.0	1066.8	1066.6	1066.4	1066.7	1067.6	1068.5	1069.3	1070.2	1070.2
152.5°	1092.8	1093.1	1093.4	1093.7	1094.0	1094.4	1094.7	1095.1	1095.4	1095.8	1096.3
155°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.2	1132.5	1132.7	1132.9	1133.1	1134.0
157.5°	1167.3	1166.8	1166.3	1165.8	1165.3	1165.2	1165.4	1165.6	1165.9	1166.1	1167.0
160°	1188.0	1187.4	1186.7	1186.0	1185.4	1185.2	1185.4	1185.6	1185.8	1186.0	1186.9
162.5°	1206.4	1205.9	1205.4	1204.9	1204.5	1204.2	1204.3	1204.3	1204.4	1204.4	1205.5
165°	1231.0	1230.5	1230.1	1229.6	1229.2	1229.1	1229.3	1229.5	1229.7	1230.0	1230.9
167.5°	1251.7	1250.8	1250.0	1249.1	1248.2	1247.7	1247.7	1247.7	1247.7	1247.7	1249.1
170°	1262.9	1262.0	1261.1	1260.3	1259.4	1258.9	1258.9	1258.9	1258.9	1258.9	1260.3
172.5°	1270.9	1270.0	1269.1	1268.2	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.2
175°	1279.9	1279.0	1278.1	1277.2	1276.3	1275.9	1275.9	1275.9	1275.9	1275.9	1277.2
177.5°	1284.5	1283.8	1283.1	1282.3	1281.6	1281.2	1281.0	1280.8	1280.7	1280.5	1281.6
180°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9



TEST NUMBER: P333146

CATALOG NUMBER: S125DIP-S375D1035U835-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	470.3	470.9	471.5	471.7	471.6	471.6	471.5	471.4
5°	468.9	469.7	470.5	470.9	470.8	470.7	470.6	470.5
7.5°	465.0	465.7	466.4	466.7	466.6	466.5	466.4	466.3
10°	461.3	462.0	462.7	463.0	462.9	462.8	462.7	462.6
12.5°	456.9	457.4	458.0	458.1	457.9	457.6	457.3	457.1
15°	448.6	449.2	449.8	449.9	449.5	449.1	448.7	448.3
17.5°	438.1	438.5	439.0	439.1	438.9	438.6	438.4	438.1
20°	430.0	430.3	430.6	430.7	430.7	430.7	430.7	430.7
22.5°	421.6	422.0	422.4	422.5	422.2	422.0	421.7	421.5
25°	408.4	408.9	409.3	409.2	408.7	408.2	407.7	407.2
27.5°	393.1	393.4	393.7	393.8	393.6	393.4	393.2	393.0
30°	382.6	382.8	383.0	383.1	383.0	382.9	382.8	382.7
32.5°	372.6	372.8	373.0	373.1	373.0	372.9	372.8	372.7
35°	356.5	356.8	357.1	357.2	357.2	357.2	357.2	357.2
37.5°	339.5	339.9	340.3	340.5	340.5	340.4	340.4	340.3
40°	328.0	328.4	328.9	329.2	329.4	329.6	329.8	330.0
42.5°	317.5	318.0	318.5	318.7	318.8	318.8	318.8	318.9
45°	300.5	301.2	301.9	302.3	302.4	302.5	302.6	302.7
47.5°	282.9	284.0	285.0	285.6	285.9	286.1	286.3	286.5
50°	271.2	272.4	273.5	274.2	274.5	274.8	275.1	275.4
52.5°	259.6	260.8	262.0	262.7	262.9	263.2	263.4	263.6
55°	241.2	242.3	243.5	244.2	244.6	245.0	245.5	245.9
57.5°	223.0	224.3	225.6	226.4	226.7	227.0	227.4	227.7
60°	210.6	212.1	213.7	214.6	214.9	215.2	215.5	215.8
62.5°	198.0	199.7	201.4	202.4	202.8	203.2	203.6	204.0
65°	179.2	180.7	182.2	183.2	183.6	184.0	184.5	184.9
67.5°	159.9	161.7	163.6	164.8	165.3	165.9	166.4	166.9
70°	146.7	148.7	150.6	151.9	152.5	153.1	153.7	154.4
72.5°	134.5	136.6	138.7	140.0	140.4	140.9	141.3	141.8
75°	116.0	118.0	120.1	121.3	121.9	122.4	122.9	123.4
77.5°	97.4	99.7	101.9	103.3	103.7	104.1	104.5	104.9
80°	86.3	88.6	90.8	92.2	92.6	93.0	93.4	93.8
82.5°	75.8	78.0	80.2	81.6	82.4	83.1	83.8	84.6
85°	61.4	63.6	65.9	67.4	68.2	69.1	69.9	70.7
87.5°	53.3	55.9	58.5	60.2	61.0	61.9	62.7	63.6
90°	60.8	64.3	67.8	70.2	71.6	73.0	74.3	75.7
92.5°	82.2	86.0	89.7	92.2	93.4	94.6	95.8	97.0
95°	118.2	122.0	125.9	128.3	129.5	130.7	131.8	133.0
97.5°	161.1	164.7	168.3	170.6	171.6	172.5	173.5	174.5
100°	190.6	194.8	198.9	201.5	202.6	203.7	204.7	205.8
102.5°	221.3	225.5	229.8	232.5	233.8	235.0	236.2	237.5
105°	270.8	274.2	277.6	280.0	281.3	282.7	284.1	285.5
107.5°	324.9	327.6	330.3	332.0	332.5	333.1	333.7	334.3
110°	362.4	365.0	367.6	369.2	369.7	370.2	370.7	371.2





TEST NUMBER: P333146

CATALOG NUMBER: S125DIP-S375D1035U835-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	400.0	402.2	404.3	405.6	405.9	406.2	406.6	406.9
115°	457.6	459.2	460.8	461.8	462.2	462.6	463.0	463.4
117.5°	515.0	517.0	518.9	519.7	519.6	519.4	519.2	519.0
120°	553.9	555.7	557.4	558.2	557.9	557.6	557.3	557.1
122.5°	591.9	593.4	594.8	595.5	595.4	595.4	595.3	595.2
125°	648.0	649.2	650.4	651.1	651.4	651.7	652.0	652.3
127.5°	703.6	704.9	706.2	706.9	707.0	707.2	707.3	707.5
130°	740.6	741.8	743.1	743.7	743.8	743.8	743.9	744.0
132.5°	775.9	777.1	778.3	778.8	778.6	778.4	778.3	778.1
135°	830.0	831.3	832.7	833.2	832.8	832.4	832.0	831.7
137.5°	883.1	884.6	886.1	886.5	885.8	885.1	884.4	883.7
140°	916.6	918.1	919.7	920.1	919.5	918.8	918.1	917.4
142.5°	949.5	950.7	951.9	952.2	951.5	950.8	950.1	949.4
145°	997.4	997.9	998.4	998.5	998.3	998.0	997.8	997.5
147.5°	1042.1	1042.8	1043.5	1043.2	1041.8	1040.5	1039.2	1037.9
150°	1070.2	1070.2	1070.2	1070.1	1069.7	1069.4	1069.0	1068.7
152.5°	1096.9	1097.4	1097.9	1097.8	1097.0	1096.2	1095.5	1094.7
155°	1134.9	1135.8	1136.7	1136.6	1135.5	1134.3	1133.2	1132.1
157.5°	1167.8	1168.7	1169.6	1169.3	1167.9	1166.4	1164.9	1163.5
160°	1187.8	1188.7	1189.6	1189.5	1188.4	1187.3	1186.2	1185.0
162.5°	1206.5	1207.6	1208.7	1208.6	1207.3	1206.0	1204.7	1203.4
165°	1231.7	1232.6	1233.5	1233.3	1232.0	1230.6	1229.3	1228.0
167.5°	1250.4	1251.7	1253.1	1253.0	1251.7	1250.3	1248.9	1247.5
170°	1261.6	1262.9	1264.2	1264.1	1262.6	1261.0	1259.5	1257.9
172.5°	1269.6	1270.9	1272.2	1272.2	1270.8	1269.5	1268.1	1266.7
175°	1278.6	1279.9	1281.2	1281.1	1279.6	1278.0	1276.4	1274.9
177.5°	1282.6	1283.7	1284.7	1284.7	1283.4	1282.2	1280.9	1279.7
180°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9

(END OF REPORT)