

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: P333145-940

Luminaire Tested: **S125DIP-S375D1035U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333145-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S375D1035U940-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 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: 4992.8 lumens
Efficiency: N/A
Efficacy: 133.9 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

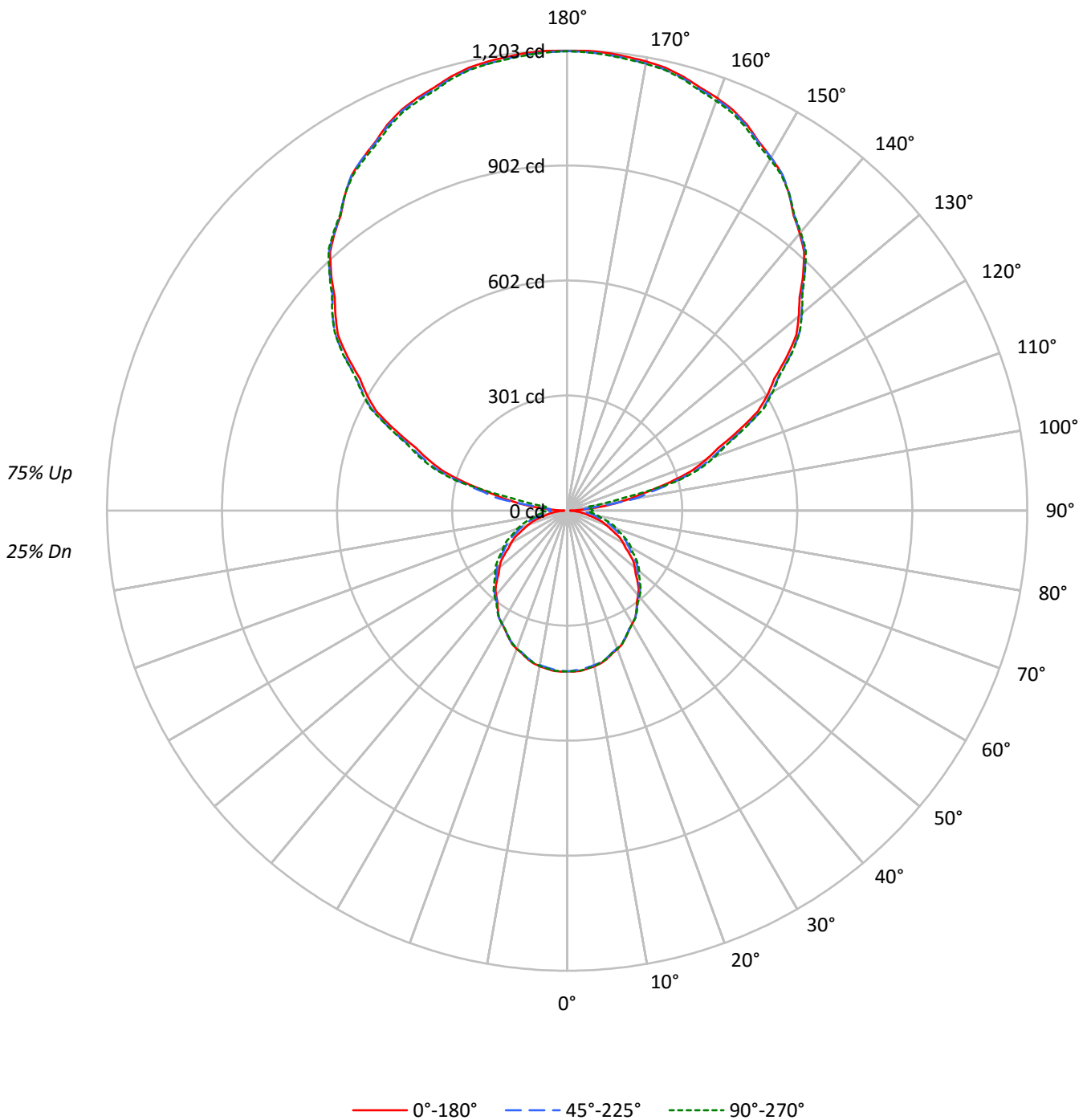
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333145-940

CATALOG NUMBER: S125DIP-S375D1035U940-4F0-1E-UDD-D

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	87	84	80	81	78	75	72	60	58	56	43	42	41	28	28	27	20
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	23	22	16
3	76	67	60	54	67	59	53	49	46	42	38	33	31	28	22	20	19	14
4	69	59	51	45	61	52	46	41	41	36	32	30	27	24	19	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2715	2715	2715
5°	2721	2664	2673
10°	2700	2617	2613
15°	2669	2561	2537
20°	2626	2489	2461
25°	2574	2414	2367
30°	2511	2331	2282
35°	2453	2256	2203
40°	2394	2175	2125
45°	2326	2106	2054
50°	2263	2032	1993
55°	2185	1961	1921
60°	2101	1881	1846
65°	2014	1797	1764
70°	1915	1682	1678
75°	1755	1572	1572
80°	1547	1438	1457
85°	1353	1346	1421



TEST NUMBER: P333145-940

CATALOG NUMBER: S125DIP-S375D1035U940-4F0-1E-UDD-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.8
10°-20°	112.8	2.3
20°-30°	167.8	3.4
30°-40°	198.8	4.0
40°-50°	205.5	4.1
50°-60°	189.3	3.8
60°-70°	153.0	3.1
70°-80°	102.5	2.1
80°-90°	55.6	1.1
90°-100°	73.5	1.5
100°-110°	291.0	5.8
110°-120°	502.6	10.1
120°-130°	634.5	12.7
130°-140°	677.1	13.6
140°-150°	632.9	12.7
150°-160°	511.3	10.2
160°-170°	330.7	6.6
170°-180°	114.1	2.3
0°-30°	320.4	6.4
0°-40°	519.2	10.4
0°-60°	914.0	18.3
0°-90°	1225.1	24.5
90°-120°	867.1	17.4
90°-150°	2811.5	56.3
90°-180°	3768.0	75.5
0°-180°	4992.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	420	419	417	420	420	40
15°	401	402	399	401	400	113
25°	365	366	364	365	363	168
35°	316	318	317	318	318	197
45°	260	264	267	269	270	201
55°	200	206	213	217	219	179
65°	138	147	157	163	165	137
75°	76	87	100	108	110	80
85°	23	36	51	59	63	24
90°	8	28	48	62	68	7
95°	56	63	44	57	61	69
105°	266	276	288	296	298	281
115°	494	502	513	516	514	489
125°	700	706	715	717	717	625
135°	872	877	878	882	879	672
145°	1011	1012	1012	1015	1012	632
155°	1113	1108	1109	1112	1105	513
165°	1174	1169	1170	1175	1168	332
175°	1201	1196	1197	1203	1196	114
180°	1201	1201	1201	1201	1201	



TEST NUMBER: P333145-940

CATALOG NUMBER: S125DIP-S375D1035U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4
2.5°	421.3	421.2	421.1	420.9	420.8	420.4	419.9	419.4	418.9	418.4	418.9
5°	420.4	420.2	420.0	419.8	419.6	419.2	418.6	417.9	417.3	416.6	417.4
7.5°	416.6	416.6	416.5	416.4	416.3	416.0	415.4	414.6	414.0	413.3	414.0
10°	413.3	413.3	413.3	413.3	413.3	413.0	412.2	411.5	410.8	410.0	410.7
12.5°	408.8	408.8	408.8	408.9	409.0	408.8	408.2	407.6	407.0	406.4	406.9
15°	401.4	401.4	401.5	401.7	401.8	401.4	400.8	400.2	399.6	399.0	399.5
17.5°	391.8	392.0	392.2	392.4	392.5	392.4	391.7	391.0	390.4	389.8	390.2
20°	385.0	385.1	385.3	385.5	385.7	385.4	384.8	384.1	383.5	382.8	383.2
22.5°	377.0	377.4	377.6	378.0	378.4	378.1	377.4	376.7	375.9	375.2	375.6
25°	364.7	365.0	365.2	365.5	365.8	365.7	365.2	364.6	364.0	363.5	363.8
27.5°	351.1	351.4	351.9	352.2	352.7	352.6	352.0	351.3	350.7	350.1	350.3
30°	340.8	341.3	341.9	342.5	343.0	343.0	342.5	341.9	341.3	340.8	341.0
32.5°	331.6	332.1	332.5	333.1	333.5	333.5	333.1	332.7	332.3	331.9	332.1
35°	315.7	316.3	317.0	317.6	318.3	318.4	318.2	317.9	317.6	317.4	317.6
37.5°	299.8	300.3	301.0	301.5	302.1	302.4	302.3	302.2	302.1	302.0	302.4
40°	288.9	289.6	290.3	291.1	291.9	292.1	292.0	291.9	291.9	291.8	292.1
42.5°	277.1	277.9	278.9	279.9	280.8	281.4	281.6	281.8	282.0	282.2	282.7
45°	260.0	261.1	262.1	263.1	264.0	264.8	265.3	265.7	266.2	266.6	267.2
47.5°	242.6	243.6	244.5	245.5	246.4	247.3	248.1	248.8	249.6	250.4	251.4
50°	230.8	231.8	232.8	233.8	234.8	235.9	236.8	237.8	238.8	239.9	240.9
52.5°	218.3	219.5	220.7	221.9	223.2	224.4	225.6	226.9	228.1	229.3	230.4
55°	199.8	201.3	202.8	204.3	205.7	207.2	208.7	210.1	211.6	213.0	214.1
57.5°	181.1	182.8	184.6	186.4	188.2	189.8	191.5	193.2	194.9	196.5	197.7
60°	168.5	170.4	172.2	174.1	175.8	177.7	179.5	181.4	183.2	185.0	186.4
62.5°	156.3	158.2	160.1	161.8	163.7	165.6	167.6	169.5	171.6	173.5	175.0
65°	137.7	139.7	141.9	143.9	146.1	148.2	150.4	152.7	154.8	157.0	158.4
67.5°	120.0	122.1	124.0	126.1	128.1	130.3	132.5	134.7	137.0	139.2	140.9
70°	107.2	109.2	111.4	113.4	115.6	117.8	120.2	122.6	124.9	127.3	129.1
72.5°	94.6	96.8	99.0	101.1	103.3	105.8	108.3	110.9	113.5	116.1	118.1
75°	75.8	78.2	80.6	82.9	85.3	88.0	91.0	93.9	96.8	99.7	101.6
77.5°	57.8	60.5	63.3	66.0	68.8	71.5	74.4	77.2	80.0	82.8	84.9
80°	46.5	49.3	52.1	54.8	57.5	60.5	63.6	66.7	69.8	72.9	75.0
82.5°	36.4	39.2	42.2	45.0	47.9	51.0	54.1	57.3	60.5	63.7	65.6
85°	22.6	25.7	28.7	31.7	34.8	37.9	41.1	44.3	47.5	50.6	52.7
87.5°	13.0	16.3	19.5	22.7	26.0	29.3	32.7	36.1	39.5	42.9	45.2
90°	7.5	12.0	16.5	21.0	25.5	30.1	34.5	39.1	43.5	48.1	51.1
92.5°	19.6	21.2	22.8	24.4	26.0	29.1	33.4	37.9	42.3	46.7	49.8
95°	56.1	57.9	59.7	61.4	63.2	62.0	57.5	53.1	48.8	44.3	47.3
97.5°	110.8	114.0	117.3	120.5	123.7	119.3	107.5	95.6	83.7	71.9	68.2
100°	153.2	155.8	158.3	160.8	163.3	166.4	170.1	173.9	177.5	181.3	153.7
102.5°	196.4	198.9	201.4	203.9	206.4	209.4	212.7	216.1	219.4	222.7	219.0
105°	265.5	267.7	270.0	272.2	274.5	277.0	279.7	282.5	285.3	288.0	289.8
107.5°	337.2	338.5	339.7	341.0	342.2	344.4	347.4	350.4	353.5	356.5	358.4
110°	384.0	385.0	386.1	387.3	388.3	390.4	393.3	396.3	399.2	402.3	403.3



TEST NUMBER: P333145-940

CATALOG NUMBER: S125DIP-S375D1035U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	428.1	429.4	430.8	432.2	433.5	435.6	438.3	441.0	443.7	446.5	447.4
115°	493.9	495.6	497.2	498.8	500.4	502.6	505.2	507.7	510.3	512.9	513.7
117.5°	562.0	562.5	562.8	563.2	563.7	565.3	568.3	571.3	574.4	577.3	577.8
120°	604.8	604.9	604.9	605.0	605.1	606.5	609.2	611.9	614.7	617.3	618.5
122.5°	642.2	643.1	644.0	644.9	645.8	647.4	649.7	652.0	654.2	656.6	657.7
125°	700.5	701.9	703.1	704.5	705.7	707.3	709.2	711.0	712.8	714.6	715.3
127.5°	755.9	756.8	757.7	758.6	759.5	760.6	762.0	763.4	764.7	766.2	767.0
130°	790.1	790.9	791.8	792.7	793.7	794.9	796.3	797.8	799.3	800.8	801.5
132.5°	823.9	825.1	826.2	827.3	828.5	829.3	829.8	830.5	831.0	831.5	832.7
135°	872.4	873.6	874.7	875.7	876.8	877.5	877.8	878.0	878.2	878.5	879.3
137.5°	917.1	918.0	919.0	920.0	920.9	921.4	921.3	921.3	921.2	921.2	922.4
140°	945.9	946.4	946.7	947.2	947.5	947.7	947.6	947.4	947.4	947.3	948.7
142.5°	972.3	972.5	972.7	972.8	972.9	973.2	973.5	973.7	974.1	974.4	975.4
145°	1010.9	1011.3	1011.6	1011.8	1012.2	1012.4	1012.4	1012.4	1012.4	1012.4	1013.0
147.5°	1044.4	1044.3	1044.2	1044.1	1044.0	1044.1	1044.4	1044.6	1044.8	1045.1	1045.4
150°	1065.8	1065.3	1065.0	1064.5	1064.2	1064.2	1064.5	1065.0	1065.3	1065.8	1066.1
152.5°	1086.4	1085.6	1084.7	1083.8	1082.9	1082.7	1083.1	1083.4	1083.9	1084.2	1084.7
155°	1112.9	1111.8	1110.5	1109.4	1108.2	1107.8	1108.2	1108.6	1108.9	1109.4	1110.0
157.5°	1133.4	1132.7	1132.0	1131.3	1130.6	1130.2	1130.2	1130.3	1130.3	1130.4	1131.0
160°	1147.6	1146.5	1145.3	1144.1	1142.9	1142.4	1142.6	1142.8	1143.0	1143.2	1144.0
162.5°	1159.0	1157.9	1156.6	1155.5	1154.3	1153.8	1154.0	1154.2	1154.4	1154.6	1155.7
165°	1174.4	1173.1	1172.0	1170.8	1169.7	1169.1	1169.3	1169.5	1169.7	1169.9	1171.1
167.5°	1185.8	1184.5	1183.3	1182.1	1180.9	1180.4	1180.5	1180.7	1180.9	1181.2	1182.6
170°	1192.1	1190.8	1189.4	1188.0	1186.6	1186.1	1186.2	1186.4	1186.6	1186.9	1188.4
172.5°	1196.4	1195.1	1193.6	1192.3	1190.9	1190.4	1190.7	1191.1	1191.4	1191.8	1193.2
175°	1201.0	1199.9	1198.7	1197.5	1196.3	1195.9	1196.1	1196.2	1196.4	1196.6	1198.2
177.5°	1203.2	1202.3	1201.3	1200.3	1199.4	1199.0	1199.2	1199.4	1199.5	1199.6	1200.8
180°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0



TEST NUMBER: P333145-940

CATALOG NUMBER: S125DIP-S375D1035U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4
2.5°	419.4	419.9	420.4	420.6	420.5	420.5	420.4	420.4
5°	418.1	418.8	419.5	419.9	419.8	419.7	419.6	419.5
7.5°	414.6	415.3	415.9	416.2	416.1	416.0	415.9	415.8
10°	411.3	412.0	412.6	412.9	412.8	412.7	412.6	412.5
12.5°	407.4	407.9	408.4	408.5	408.3	408.0	407.8	407.6
15°	400.0	400.6	401.1	401.2	400.8	400.5	400.1	399.8
17.5°	390.7	391.0	391.5	391.6	391.4	391.1	390.9	390.7
20°	383.4	383.7	384.0	384.1	384.1	384.1	384.1	384.1
22.5°	375.9	376.3	376.7	376.7	376.5	376.3	376.0	375.9
25°	364.2	364.6	365.0	364.9	364.4	364.0	363.6	363.1
27.5°	350.5	350.8	351.1	351.2	351.0	350.8	350.6	350.4
30°	341.2	341.3	341.5	341.6	341.5	341.4	341.3	341.3
32.5°	332.3	332.4	332.6	332.7	332.6	332.5	332.4	332.3
35°	317.9	318.2	318.4	318.5	318.5	318.5	318.5	318.5
37.5°	302.7	303.1	303.4	303.6	303.6	303.5	303.5	303.4
40°	292.5	292.8	293.3	293.6	293.7	293.9	294.1	294.3
42.5°	283.1	283.6	284.0	284.2	284.3	284.3	284.3	284.4
45°	268.0	268.6	269.2	269.6	269.7	269.7	269.8	269.9
47.5°	252.3	253.2	254.1	254.7	254.9	255.1	255.3	255.5
50°	241.8	242.9	243.9	244.5	244.8	245.0	245.3	245.6
52.5°	231.5	232.6	233.6	234.3	234.4	234.7	234.9	235.1
55°	215.1	216.1	217.1	217.8	218.1	218.5	218.9	219.3
57.5°	198.9	200.0	201.2	201.9	202.2	202.4	202.8	203.0
60°	187.8	189.1	190.6	191.4	191.6	191.9	192.2	192.4
62.5°	176.6	178.1	179.6	180.5	180.8	181.2	181.6	181.9
65°	159.8	161.1	162.5	163.4	163.7	164.1	164.5	164.9
67.5°	142.6	144.2	145.9	147.0	147.4	147.9	148.4	148.8
70°	130.8	132.6	134.3	135.5	136.0	136.5	137.1	137.7
72.5°	119.9	121.8	123.7	124.8	125.2	125.6	126.0	126.4
75°	103.4	105.2	107.1	108.2	108.7	109.1	109.6	110.0
77.5°	86.9	88.9	90.9	92.1	92.5	92.8	93.2	93.5
80°	77.0	79.0	81.0	82.2	82.6	82.9	83.3	83.6
82.5°	67.6	69.6	71.5	72.8	73.5	74.1	74.7	75.4
85°	54.8	56.7	58.8	60.1	60.8	61.6	62.3	63.0
87.5°	47.5	49.8	52.2	53.7	54.4	55.2	55.9	56.7
90°	54.2	57.3	60.5	62.6	63.8	65.1	66.3	67.5
92.5°	52.8	55.8	58.9	60.8	61.7	62.6	63.5	64.5
95°	50.4	53.3	56.4	58.1	58.9	59.5	60.1	60.7
97.5°	64.6	60.9	57.2	55.6	56.3	56.9	57.5	58.1
100°	126.2	98.6	71.1	57.2	56.9	56.7	56.4	56.2
102.5°	215.3	211.5	207.8	199.5	186.5	173.7	160.8	147.8
105°	291.7	293.5	295.3	296.5	296.9	297.3	297.7	298.2
107.5°	360.3	362.1	363.9	364.9	364.8	364.8	364.8	364.7
110°	404.5	405.6	406.8	407.8	408.7	409.5	410.3	411.2



TEST NUMBER: P333145-940

CATALOG NUMBER: S125DIP-S375D1035U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	448.4	449.2	450.1	450.8	451.1	451.5	451.9	452.3
115°	514.6	515.5	516.3	516.4	515.8	515.1	514.5	513.9
117.5°	578.4	578.9	579.4	579.8	579.9	580.0	580.1	580.1
120°	619.6	620.8	622.0	622.3	621.9	621.4	621.0	620.5
122.5°	658.8	659.9	660.9	661.2	660.6	660.0	659.4	658.8
125°	716.0	716.7	717.3	717.6	717.5	717.3	717.2	717.0
127.5°	768.0	768.9	769.8	769.8	768.9	767.9	767.0	766.1
130°	802.2	802.8	803.5	803.6	803.1	802.5	802.0	801.5
132.5°	833.8	835.0	836.2	836.4	835.8	835.3	834.6	834.0
135°	880.1	880.9	881.7	881.7	881.0	880.3	879.5	878.8
137.5°	923.5	924.7	925.9	926.0	925.4	924.7	924.1	923.5
140°	950.0	951.5	952.9	953.1	952.3	951.5	950.7	949.9
142.5°	976.2	977.2	978.1	978.2	977.4	976.5	975.7	974.9
145°	1013.6	1014.3	1014.9	1014.9	1014.1	1013.3	1012.4	1011.6
147.5°	1045.9	1046.2	1046.6	1046.2	1044.9	1043.7	1042.4	1041.2
150°	1066.6	1066.9	1067.3	1066.8	1065.3	1063.8	1062.3	1060.8
152.5°	1085.0	1085.5	1085.8	1085.3	1084.0	1082.5	1081.1	1079.7
155°	1110.5	1111.2	1111.8	1111.3	1109.6	1108.0	1106.5	1104.9
157.5°	1131.7	1132.3	1132.9	1132.5	1130.9	1129.3	1127.7	1126.1
160°	1144.8	1145.6	1146.4	1145.9	1144.4	1142.8	1141.2	1139.6
162.5°	1156.8	1157.9	1159.0	1158.7	1157.0	1155.2	1153.5	1151.7
165°	1172.2	1173.5	1174.7	1174.5	1172.9	1171.3	1169.7	1168.1
167.5°	1184.0	1185.4	1186.9	1186.7	1184.9	1183.1	1181.3	1179.6
170°	1190.0	1191.6	1193.2	1193.0	1191.2	1189.5	1187.8	1186.0
172.5°	1194.6	1196.1	1197.5	1197.3	1195.5	1193.7	1191.9	1190.3
175°	1199.8	1201.4	1202.9	1202.8	1201.0	1199.3	1197.5	1195.7
177.5°	1201.8	1203.0	1204.1	1204.0	1202.7	1201.5	1200.2	1198.9
180°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0

(END OF REPORT)