

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: P333145-935

Luminaire Tested: **S125DIP-S375D1035U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333145-935
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-S375D1035U935-4F0-1E-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: 4820.8 lumens
Efficiency: N/A
Efficacy: 129.2 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

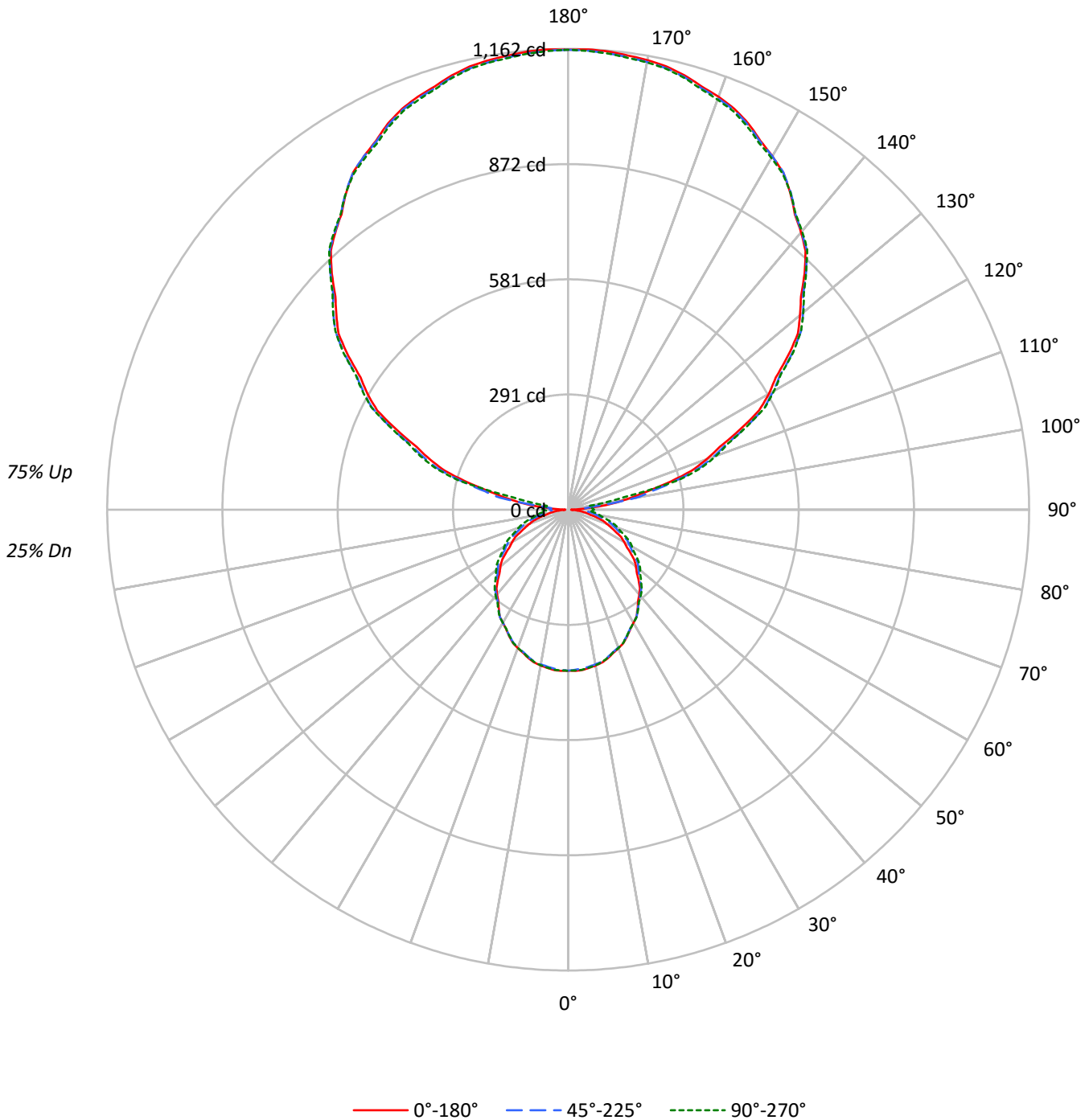
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333145-935

CATALOG NUMBER: S125DIP-S375D1035U935-4F0-1E-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°	2621	2621	2621
5°	2627	2573	2581
10°	2608	2527	2523
15°	2577	2472	2450
20°	2535	2404	2376
25°	2485	2331	2285
30°	2425	2251	2203
35°	2369	2178	2127
40°	2312	2100	2051
45°	2247	2033	1983
50°	2184	1962	1924
55°	2110	1894	1854
60°	2028	1817	1782
65°	1944	1736	1703
70°	1849	1625	1620
75°	1695	1518	1517
80°	1493	1389	1408
85°	1311	1301	1373



TEST NUMBER: P333145-935

CATALOG NUMBER: S125DIP-S375D1035U935-4F0-1E-UDD-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	0.8
10°-20°	108.9	2.3
20°-30°	162.0	3.4
30°-40°	191.9	4.0
40°-50°	198.4	4.1
50°-60°	182.8	3.8
60°-70°	147.8	3.1
70°-80°	99.0	2.1
80°-90°	53.7	1.1
90°-100°	70.9	1.5
100°-110°	281.0	5.8
110°-120°	485.3	10.1
120°-130°	612.6	12.7
130°-140°	653.8	13.6
140°-150°	611.1	12.7
150°-160°	493.7	10.2
160°-170°	319.3	6.6
170°-180°	110.1	2.3
0°-30°	309.4	6.4
0°-40°	501.3	10.4
0°-60°	882.5	18.3
0°-90°	1183.0	24.5
90°-120°	837.2	17.4
90°-150°	2714.7	56.3
90°-180°	3638.0	75.5
0°-180°	4820.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	406	405	402	405	405	38
15°	388	388	385	387	386	109
25°	352	353	351	352	351	162
35°	305	307	306	308	308	191
45°	251	255	257	260	261	194
55°	193	199	206	210	212	172
65°	133	142	152	157	159	132
75°	73	84	96	104	106	78
85°	22	35	49	57	61	23
90°	7	27	46	59	65	6
95°	54	60	43	55	59	66
105°	256	266	278	286	288	272
115°	477	484	495	499	496	473
125°	676	682	690	693	692	604
135°	842	847	848	851	848	649
145°	976	977	978	980	977	610
155°	1075	1070	1071	1073	1067	495
165°	1134	1129	1130	1134	1128	320
175°	1160	1155	1155	1161	1154	110
180°	1160	1160	1160	1160	1160	



TEST NUMBER: P333145-935

CATALOG NUMBER: S125DIP-S375D1035U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	406.8	406.7	406.6	406.4	406.3	406.0	405.4	404.9	404.5	404.0	404.5
5°	405.9	405.7	405.5	405.4	405.2	404.8	404.2	403.6	402.9	402.3	403.0
7.5°	402.3	402.3	402.2	402.1	402.0	401.7	401.1	400.4	399.8	399.1	399.8
10°	399.1	399.1	399.1	399.1	399.1	398.7	398.0	397.4	396.7	395.9	396.6
12.5°	394.7	394.8	394.8	394.9	394.9	394.7	394.2	393.6	393.0	392.4	392.9
15°	387.5	387.6	387.7	387.9	388.0	387.6	387.0	386.4	385.8	385.2	385.7
17.5°	378.3	378.5	378.7	378.8	379.0	378.8	378.2	377.5	376.9	376.3	376.8
20°	371.7	371.9	372.0	372.2	372.4	372.1	371.5	370.9	370.3	369.6	370.0
22.5°	364.0	364.4	364.6	365.0	365.3	365.1	364.4	363.7	363.0	362.3	362.7
25°	352.1	352.4	352.7	352.9	353.2	353.1	352.6	352.1	351.5	350.9	351.3
27.5°	339.0	339.3	339.8	340.1	340.5	340.4	339.8	339.2	338.6	338.0	338.2
30°	329.1	329.6	330.1	330.7	331.2	331.2	330.7	330.1	329.6	329.1	329.2
32.5°	320.2	320.6	321.1	321.6	322.0	322.0	321.7	321.2	320.9	320.5	320.6
35°	304.8	305.4	306.1	306.7	307.3	307.5	307.2	306.9	306.7	306.4	306.7
37.5°	289.5	290.0	290.6	291.1	291.7	292.0	291.9	291.8	291.7	291.6	292.0
40°	279.0	279.7	280.3	281.0	281.8	282.1	282.0	281.9	281.8	281.7	282.1
42.5°	267.5	268.4	269.3	270.3	271.1	271.7	271.9	272.1	272.3	272.5	272.9
45°	251.1	252.1	253.0	254.0	254.9	255.7	256.1	256.6	257.0	257.4	258.0
47.5°	234.3	235.2	236.1	237.0	237.9	238.8	239.5	240.2	241.0	241.8	242.7
50°	222.8	223.8	224.8	225.8	226.7	227.7	228.7	229.6	230.6	231.6	232.6
52.5°	210.8	211.9	213.1	214.3	215.5	216.6	217.8	219.0	220.2	221.4	222.5
55°	193.0	194.4	195.8	197.3	198.6	200.1	201.5	202.9	204.3	205.7	206.7
57.5°	174.9	176.5	178.2	179.9	181.7	183.3	184.9	186.6	188.2	189.8	190.9
60°	162.7	164.5	166.3	168.1	169.8	171.6	173.3	175.1	176.9	178.7	179.9
62.5°	150.9	152.7	154.5	156.3	158.1	159.9	161.8	163.7	165.7	167.6	169.0
65°	132.9	134.9	137.0	139.0	141.0	143.1	145.3	147.4	149.5	151.6	152.9
67.5°	115.9	117.9	119.8	121.7	123.7	125.8	127.9	130.1	132.2	134.4	136.0
70°	103.5	105.5	107.5	109.5	111.6	113.7	116.1	118.4	120.6	123.0	124.7
72.5°	91.4	93.5	95.6	97.6	99.8	102.1	104.6	107.1	109.6	112.1	114.0
75°	73.2	75.5	77.8	80.1	82.4	85.0	87.8	90.7	93.5	96.3	98.1
77.5°	55.8	58.5	61.1	63.7	66.4	69.1	71.8	74.6	77.2	80.0	82.0
80°	44.9	47.6	50.3	53.0	55.5	58.4	61.4	64.4	67.4	70.4	72.4
82.5°	35.1	37.9	40.7	43.5	46.2	49.2	52.3	55.4	58.5	61.5	63.4
85°	21.9	24.8	27.7	30.7	33.6	36.6	39.7	42.8	45.9	48.9	50.9
87.5°	12.6	15.8	18.9	22.0	25.1	28.3	31.6	34.9	38.1	41.4	43.7
90°	7.2	11.6	15.9	20.3	24.6	29.0	33.3	37.7	42.0	46.4	49.3
92.5°	18.9	20.5	22.0	23.6	25.1	28.1	32.3	36.6	40.8	45.1	48.0
95°	54.2	55.9	57.6	59.3	61.0	59.8	55.5	51.3	47.1	42.8	45.7
97.5°	107.0	110.1	113.2	116.3	119.4	115.2	103.8	92.3	80.8	69.4	65.9
100°	147.9	150.4	152.8	155.2	157.6	160.7	164.3	167.9	171.4	175.0	148.4
102.5°	189.6	192.0	194.5	196.9	199.3	202.2	205.3	208.6	211.8	215.1	211.5
105°	256.3	258.5	260.7	262.9	265.0	267.4	270.1	272.8	275.4	278.1	279.8
107.5°	325.6	326.8	328.0	329.2	330.5	332.5	335.4	338.4	341.3	344.2	346.0
110°	370.7	371.8	372.8	373.9	375.0	376.9	379.8	382.6	385.5	388.4	389.4



TEST NUMBER: P333145-935

CATALOG NUMBER: S125DIP-S375D1035U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	413.4	414.7	415.9	417.3	418.6	420.6	423.2	425.9	428.4	431.1	432.0
115°	476.9	478.5	480.1	481.6	483.2	485.3	487.8	490.3	492.8	495.2	496.0
117.5°	542.7	543.1	543.5	543.8	544.2	545.9	548.7	551.6	554.6	557.4	557.9
120°	584.0	584.1	584.1	584.2	584.3	585.7	588.2	590.8	593.5	596.1	597.2
122.5°	620.1	621.0	621.8	622.7	623.5	625.1	627.3	629.6	631.7	634.0	635.1
125°	676.4	677.7	678.9	680.2	681.4	682.9	684.8	686.5	688.3	690.0	690.7
127.5°	729.9	730.7	731.6	732.5	733.3	734.4	735.7	737.1	738.4	739.8	740.6
130°	762.8	763.7	764.6	765.4	766.4	767.5	768.9	770.3	771.8	773.2	773.9
132.5°	795.6	796.7	797.7	798.8	800.0	800.7	801.2	801.8	802.4	802.9	804.0
135°	842.4	843.5	844.6	845.6	846.6	847.3	847.6	847.7	848.0	848.3	849.0
137.5°	885.5	886.4	887.3	888.3	889.2	889.7	889.6	889.6	889.5	889.5	890.6
140°	913.3	913.8	914.1	914.6	914.9	915.1	915.0	914.8	914.7	914.6	916.0
142.5°	938.8	939.0	939.2	939.3	939.4	939.7	940.0	940.2	940.6	940.8	941.8
145°	976.1	976.5	976.7	977.0	977.3	977.5	977.5	977.5	977.5	977.5	978.1
147.5°	1008.4	1008.3	1008.2	1008.1	1008.1	1008.1	1008.4	1008.7	1008.8	1009.1	1009.4
150°	1029.1	1028.6	1028.3	1027.9	1027.5	1027.5	1027.9	1028.3	1028.6	1029.1	1029.4
152.5°	1049.0	1048.2	1047.3	1046.5	1045.6	1045.4	1045.8	1046.1	1046.5	1046.9	1047.3
155°	1074.6	1073.5	1072.3	1071.2	1070.1	1069.6	1070.1	1070.4	1070.7	1071.2	1071.8
157.5°	1094.3	1093.6	1093.0	1092.4	1091.7	1091.3	1091.3	1091.4	1091.4	1091.5	1092.1
160°	1108.1	1107.0	1105.9	1104.7	1103.5	1103.0	1103.3	1103.5	1103.6	1103.8	1104.6
162.5°	1119.1	1118.0	1116.8	1115.7	1114.6	1114.0	1114.2	1114.5	1114.7	1114.8	1115.9
165°	1133.9	1132.7	1131.6	1130.5	1129.4	1128.9	1129.0	1129.2	1129.5	1129.6	1130.8
167.5°	1145.0	1143.8	1142.5	1141.3	1140.2	1139.7	1139.9	1140.1	1140.2	1140.5	1141.9
170°	1151.1	1149.8	1148.4	1147.1	1145.7	1145.2	1145.4	1145.6	1145.7	1146.0	1147.5
172.5°	1155.2	1153.9	1152.5	1151.2	1149.9	1149.4	1149.7	1150.0	1150.4	1150.7	1152.1
175°	1159.7	1158.6	1157.4	1156.2	1155.1	1154.7	1154.9	1155.0	1155.2	1155.4	1156.9
177.5°	1161.7	1160.9	1159.9	1159.0	1158.1	1157.7	1157.9	1158.0	1158.2	1158.3	1159.4
180°	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7



TEST NUMBER: P333145-935

CATALOG NUMBER: S125DIP-S375D1035U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	404.9	405.4	406.0	406.1	406.0	406.0	406.0	405.9
5°	403.7	404.4	405.1	405.4	405.4	405.3	405.2	405.1
7.5°	400.4	401.0	401.6	401.8	401.7	401.7	401.6	401.5
10°	397.2	397.8	398.4	398.6	398.6	398.5	398.4	398.3
12.5°	393.4	393.8	394.3	394.4	394.3	394.0	393.7	393.6
15°	386.2	386.8	387.3	387.4	387.0	386.7	386.3	386.0
17.5°	377.2	377.5	378.0	378.1	377.9	377.6	377.5	377.2
20°	370.2	370.5	370.7	370.8	370.8	370.8	370.8	370.8
22.5°	363.0	363.3	363.7	363.8	363.5	363.3	363.1	362.9
25°	351.6	352.1	352.4	352.3	351.9	351.5	351.0	350.6
27.5°	338.5	338.7	339.0	339.1	338.9	338.7	338.5	338.4
30°	329.4	329.6	329.8	329.8	329.8	329.7	329.6	329.5
32.5°	320.8	321.0	321.2	321.2	321.2	321.1	321.0	320.9
35°	306.9	307.2	307.5	307.5	307.5	307.5	307.5	307.5
37.5°	292.3	292.7	293.0	293.2	293.2	293.1	293.1	293.0
40°	282.4	282.8	283.2	283.4	283.6	283.8	284.0	284.1
42.5°	273.4	273.8	274.2	274.4	274.5	274.5	274.5	274.6
45°	258.7	259.3	259.9	260.3	260.4	260.5	260.5	260.6
47.5°	243.6	244.5	245.4	245.9	246.2	246.3	246.5	246.7
50°	233.5	234.5	235.5	236.1	236.3	236.6	236.9	237.1
52.5°	223.5	224.5	225.6	226.2	226.4	226.6	226.8	227.0
55°	207.7	208.6	209.7	210.3	210.6	210.9	211.4	211.7
57.5°	192.0	193.1	194.2	194.9	195.2	195.4	195.8	196.0
60°	181.3	182.6	184.0	184.8	185.0	185.3	185.5	185.8
62.5°	170.5	171.9	173.4	174.3	174.6	175.0	175.3	175.6
65°	154.3	155.6	156.9	157.7	158.1	158.4	158.9	159.2
67.5°	137.7	139.2	140.9	141.9	142.3	142.8	143.3	143.7
70°	126.3	128.0	129.7	130.8	131.3	131.8	132.3	132.9
72.5°	115.8	117.6	119.4	120.5	120.9	121.3	121.7	122.1
75°	99.9	101.6	103.4	104.4	105.0	105.4	105.8	106.2
77.5°	83.9	85.8	87.7	88.9	89.3	89.6	90.0	90.3
80°	74.3	76.3	78.2	79.4	79.7	80.1	80.4	80.8
82.5°	65.3	67.2	69.1	70.3	70.9	71.5	72.2	72.8
85°	52.9	54.8	56.7	58.0	58.7	59.5	60.2	60.9
87.5°	45.9	48.1	50.4	51.8	52.5	53.3	54.0	54.8
90°	52.3	55.4	58.4	60.4	61.6	62.9	64.0	65.2
92.5°	51.0	53.9	56.8	58.7	59.6	60.4	61.3	62.3
95°	48.6	51.5	54.4	56.1	56.8	57.4	58.0	58.6
97.5°	62.3	58.8	55.3	53.7	54.3	54.9	55.5	56.1
100°	121.8	95.2	68.6	55.2	54.9	54.8	54.5	54.2
102.5°	207.8	204.2	200.6	192.6	180.1	167.7	155.2	142.8
105°	281.6	283.4	285.2	286.3	286.7	287.1	287.5	287.9
107.5°	347.8	349.7	351.4	352.3	352.2	352.2	352.2	352.1
110°	390.5	391.7	392.8	393.7	394.6	395.4	396.1	397.0



TEST NUMBER: P333145-935

CATALOG NUMBER: S125DIP-S375D1035U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	432.9	433.8	434.6	435.2	435.6	435.9	436.4	436.7
115°	496.9	497.7	498.5	498.6	498.0	497.4	496.8	496.2
117.5°	558.4	559.0	559.5	559.8	559.9	560.0	560.1	560.2
120°	598.3	599.4	600.5	600.9	600.5	600.0	599.6	599.2
122.5°	636.1	637.1	638.2	638.4	637.8	637.3	636.7	636.1
125°	691.3	692.0	692.6	692.8	692.8	692.6	692.5	692.3
127.5°	741.6	742.4	743.3	743.3	742.4	741.5	740.6	739.7
130°	774.6	775.2	775.8	775.9	775.4	774.9	774.4	773.9
132.5°	805.1	806.2	807.4	807.6	807.0	806.5	805.9	805.3
135°	849.8	850.6	851.4	851.4	850.7	850.0	849.2	848.5
137.5°	891.7	892.9	894.0	894.1	893.5	892.9	892.3	891.7
140°	917.3	918.7	920.1	920.3	919.5	918.8	918.0	917.1
142.5°	942.6	943.6	944.4	944.5	943.7	942.9	942.1	941.3
145°	978.7	979.4	980.0	979.9	979.1	978.4	977.5	976.7
147.5°	1009.9	1010.2	1010.6	1010.1	1008.9	1007.7	1006.5	1005.3
150°	1029.8	1030.2	1030.5	1030.0	1028.6	1027.2	1025.7	1024.2
152.5°	1047.7	1048.1	1048.4	1047.9	1046.6	1045.3	1043.9	1042.5
155°	1072.3	1072.9	1073.5	1073.0	1071.4	1069.9	1068.4	1066.9
157.5°	1092.7	1093.3	1093.9	1093.5	1091.9	1090.4	1088.8	1087.4
160°	1105.4	1106.1	1106.9	1106.5	1105.0	1103.5	1101.9	1100.4
162.5°	1117.0	1118.0	1119.1	1118.8	1117.1	1115.4	1113.8	1112.1
165°	1131.9	1133.1	1134.2	1134.0	1132.5	1130.9	1129.5	1127.9
167.5°	1143.2	1144.6	1146.0	1145.8	1144.1	1142.4	1140.7	1138.9
170°	1149.0	1150.6	1152.1	1151.9	1150.2	1148.6	1146.9	1145.1
172.5°	1153.5	1154.9	1156.2	1156.1	1154.3	1152.6	1150.9	1149.3
175°	1158.5	1160.0	1161.5	1161.4	1159.7	1158.0	1156.2	1154.5
177.5°	1160.5	1161.6	1162.6	1162.5	1161.3	1160.1	1158.9	1157.6
180°	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7

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