

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: P333281-930

Luminaire Tested: **S125DIP-S1090D1035U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333281-930
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-S1090D1035U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

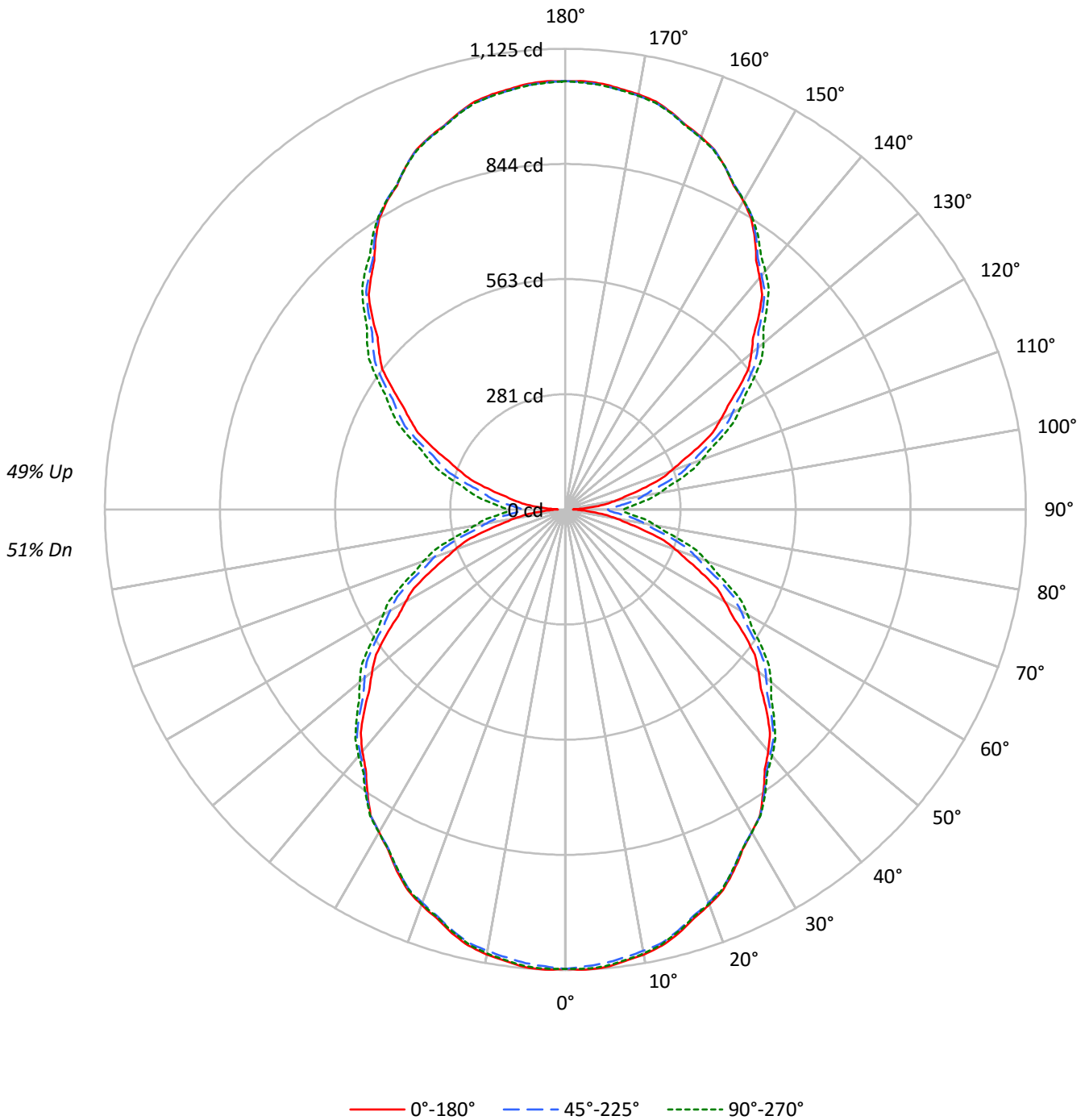
Lumens per Lamp: N/A
Luminaire Lumens: 6398.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: General Diffuse

Input Watts (W): 60.5
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: P333281-930
CATALOG NUMBER: S125DIP-S1090D1035U930-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P333281-930

CATALOG NUMBER: S125DIP-S1090D1035U930-4F0-1E-UDD-D1

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	97	93	88	85	90	86	82	79	72	70	67	60	58	57	49	48	47	41
2	88	80	74	69	81	74	69	64	63	59	55	53	49	47	43	41	39	34
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	38	35	33	29
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	31	28	24
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24	21
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21	18
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	21	19	16
8	53	41	33	27	49	38	31	26	32	27	23	28	23	20	23	19	17	14
9	49	37	29	24	46	34	28	23	30	24	20	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7251	7251	7251
5°	7265	7116	7139
10°	7213	6989	6979
15°	7128	6837	6775
20°	7012	6650	6572
25°	6874	6448	6320
30°	6707	6226	6092
35°	6552	6023	5884
40°	6393	5809	5674
45°	6214	5626	5487
50°	6043	5427	5322
55°	5837	5239	5128
60°	5611	5024	4931
65°	5377	4800	4709
70°	5112	4494	4480
75°	4688	4200	4198
80°	4134	3842	3893
85°	3621	3600	3798



TEST NUMBER: P333281-930

CATALOG NUMBER: S125DIP-S1090D1035U930-4F0-1E-UDD-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.7
10°-20°	301.3	4.7
20°-30°	448.2	7.0
30°-40°	530.9	8.3
40°-50°	548.9	8.6
50°-60°	505.6	7.9
60°-70°	408.7	6.4
70°-80°	273.7	4.3
80°-90°	144.2	2.3
90°-100°	149.7	2.3
100°-110°	265.6	4.2
110°-120°	389.8	6.1
120°-130°	483.5	7.6
130°-140°	526.5	8.2
140°-150°	508.4	7.9
150°-160°	425.4	6.6
160°-170°	282.7	4.4
170°-180°	98.9	1.5
0°-30°	855.7	13.4
0°-40°	1386.5	21.7
0°-60°	2441.0	38.2
0°-90°	3267.6	51.1
90°-120°	805.0	12.6
90°-150°	2323.4	36.3
90°-180°	3130.0	48.9
0°-180°	6398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1123	1120	1113	1121	1120	106
15°	1072	1073	1065	1071	1068	302
25°	974	977	971	975	970	448
35°	843	850	848	851	851	527
45°	694	706	712	719	721	536
55°	534	551	569	581	586	477
65°	368	393	419	435	440	365
75°	202	232	266	287	294	215
85°	60	97	135	159	168	64
90°	18	60	103	132	143	15
95°	67	98	143	172	182	68
105°	196	218	255	281	292	209
115°	357	369	399	417	423	353
125°	516	521	543	558	564	462
135°	668	672	680	694	697	515
145°	808	810	812	818	820	504
155°	923	923	924	927	923	425
165°	1004	1002	1003	1006	1001	283
175°	1044	1040	1040	1045	1039	99
180°	1046	1046	1046	1046	1046	



TEST NUMBER: P333281-930

CATALOG NUMBER: S125DIP-S1090D1035U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1125.3	1124.9	1124.5	1124.1	1123.7	1122.8	1121.4	1120.1	1118.8	1117.4	1118.8
5°	1122.7	1122.2	1121.7	1121.2	1120.7	1119.6	1117.9	1116.1	1114.4	1112.7	1114.7
7.5°	1112.7	1112.6	1112.3	1112.1	1112.0	1111.0	1109.2	1107.4	1105.7	1103.9	1105.6
10°	1103.9	1103.9	1103.9	1103.9	1103.9	1102.9	1101.0	1099.0	1097.1	1095.1	1096.8
12.5°	1091.6	1091.8	1092.0	1092.2	1092.4	1091.7	1090.1	1088.6	1087.0	1085.4	1086.8
15°	1072.0	1072.3	1072.5	1072.8	1073.0	1072.3	1070.6	1068.9	1067.1	1065.4	1066.9
17.5°	1046.4	1046.9	1047.4	1047.9	1048.4	1047.8	1046.1	1044.4	1042.7	1041.0	1042.1
20°	1028.0	1028.5	1029.0	1029.5	1030.0	1029.3	1027.6	1025.9	1024.2	1022.5	1023.2
22.5°	1006.8	1007.7	1008.6	1009.5	1010.4	1009.8	1008.0	1006.1	1004.1	1002.2	1003.1
25°	974.0	974.8	975.5	976.2	977.0	976.6	975.2	973.7	972.2	970.8	971.8
27.5°	937.5	938.6	939.6	940.8	941.8	941.5	939.9	938.2	936.5	934.9	935.6
30°	910.2	911.7	913.1	914.6	916.1	916.1	914.6	913.1	911.7	910.2	910.7
32.5°	885.6	886.8	888.1	889.4	890.6	890.7	889.7	888.6	887.5	886.5	887.0
35°	843.1	844.8	846.5	848.2	849.9	850.4	849.7	849.0	848.2	847.5	848.2
37.5°	800.6	802.2	803.7	805.3	806.8	807.6	807.3	807.1	806.8	806.6	807.6
40°	771.5	773.5	775.4	777.4	779.3	780.2	780.0	779.8	779.5	779.3	780.2
42.5°	739.8	742.4	744.9	747.5	750.0	751.5	752.1	752.6	753.2	753.7	754.9
45°	694.5	697.2	699.9	702.5	705.2	707.2	708.4	709.6	710.9	712.1	713.8
47.5°	648.1	650.5	653.1	655.5	658.0	660.3	662.4	664.6	666.7	668.7	671.2
50°	616.4	619.1	621.7	624.4	627.1	629.8	632.5	635.2	637.9	640.6	643.3
52.5°	582.9	586.2	589.5	592.7	596.0	599.2	602.6	605.8	609.1	612.4	615.3
55°	533.8	537.7	541.6	545.5	549.4	553.3	557.3	561.2	565.1	569.0	571.7
57.5°	483.6	488.3	493.0	497.7	502.4	507.0	511.5	516.0	520.5	525.0	528.1
60°	450.1	455.0	459.9	464.8	469.7	474.6	479.5	484.4	489.3	494.2	497.8
62.5°	417.6	422.5	427.4	432.3	437.2	442.2	447.5	452.8	458.1	463.3	467.4
65°	367.6	373.2	378.9	384.5	390.1	395.8	401.7	407.6	413.4	419.3	423.0
67.5°	320.5	326.0	331.3	336.8	342.2	347.9	353.9	359.9	365.8	371.8	376.3
70°	286.2	291.8	297.4	303.0	308.7	314.6	321.0	327.3	333.7	340.1	344.7
72.5°	252.7	258.5	264.3	270.2	276.0	282.3	289.3	296.3	303.2	310.1	315.2
75°	202.5	208.9	215.2	221.6	228.0	235.1	242.9	250.7	258.5	266.4	271.3
77.5°	154.3	161.7	169.0	176.3	183.7	191.1	198.6	206.2	213.7	221.2	226.6
80°	124.3	131.7	139.0	146.3	153.7	161.5	169.8	178.1	186.5	194.8	200.2
82.5°	97.1	104.8	112.5	120.3	128.0	136.1	144.6	153.1	161.7	170.2	175.4
85°	60.5	68.6	76.6	84.7	92.8	101.1	109.7	118.2	126.8	135.3	140.7
87.5°	34.5	42.6	50.7	58.9	66.9	75.3	83.9	92.5	101.0	109.6	115.4
90°	18.4	27.7	36.9	46.2	55.5	65.0	74.5	84.1	93.7	103.3	109.8
92.5°	35.5	43.8	52.0	60.3	68.6	77.7	87.8	97.8	107.9	118.0	124.6
95°	67.2	73.9	80.6	87.4	94.1	102.5	112.7	122.8	132.9	143.0	149.7
97.5°	100.9	106.7	112.6	118.5	124.3	132.6	143.1	153.6	164.1	174.6	181.0
100°	126.0	131.2	136.3	141.5	146.6	154.3	164.4	174.6	184.8	194.9	201.7
102.5°	153.2	158.7	164.1	169.6	175.0	182.2	191.0	199.8	208.6	217.5	224.2
105°	195.5	200.3	205.1	209.9	214.7	221.4	229.8	238.2	246.6	255.1	261.1
107.5°	242.4	246.5	250.8	255.0	259.3	265.3	273.2	281.1	288.9	296.9	302.2
110°	274.7	278.5	282.3	286.2	290.0	295.6	303.0	310.5	317.8	325.2	330.4



TEST NUMBER: P333281-930

CATALOG NUMBER: S125DIP-S1090D1035U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	308.5	311.4	314.2	317.0	319.8	324.9	332.2	339.6	346.9	354.2	359.0
115°	357.4	359.9	362.3	364.8	367.1	371.8	378.5	385.1	391.9	398.6	402.8
117.5°	406.4	407.9	409.4	410.8	412.3	416.1	422.5	428.8	435.2	441.6	445.8
120°	437.7	439.4	441.0	442.6	444.3	448.0	453.8	459.6	465.4	471.2	475.4
122.5°	470.7	471.3	472.1	472.7	473.4	476.6	482.6	488.4	494.3	500.3	504.1
125°	516.4	517.2	518.0	518.9	519.8	522.7	527.7	532.9	537.9	543.0	546.6
127.5°	564.1	564.5	564.8	565.2	565.6	567.9	572.1	576.3	580.6	584.8	588.2
130°	593.5	594.1	594.8	595.4	596.1	598.3	602.1	605.8	609.6	613.4	616.7
132.5°	621.8	623.3	624.7	626.1	627.6	629.6	632.2	634.7	637.3	639.8	643.1
135°	668.1	668.9	669.7	670.5	671.4	672.8	674.7	676.5	678.4	680.3	683.5
137.5°	711.4	712.2	713.1	714.0	714.9	715.9	717.1	718.4	719.6	720.8	723.9
140°	738.6	739.5	740.4	741.3	742.2	743.0	743.8	744.6	745.3	746.2	749.2
142.5°	766.5	767.1	767.7	768.3	768.8	769.5	770.2	770.9	771.7	772.4	774.9
145°	807.7	808.2	808.7	809.2	809.7	810.2	810.7	811.2	811.8	812.4	813.6
147.5°	844.7	845.1	845.5	846.0	846.3	846.8	847.2	847.6	848.0	848.5	849.3
150°	870.1	869.9	869.8	869.6	869.4	869.7	870.4	871.1	871.8	872.5	872.5
152.5°	891.0	891.2	891.4	891.7	891.9	892.3	892.5	892.8	893.1	893.4	893.8
155°	923.0	923.0	923.0	923.0	923.0	923.1	923.3	923.5	923.7	923.8	924.5
157.5°	951.7	951.3	950.9	950.5	950.1	950.0	950.1	950.3	950.6	950.7	951.5
160°	968.6	968.1	967.5	966.9	966.5	966.3	966.5	966.6	966.8	966.9	967.7
162.5°	983.6	983.2	982.8	982.4	982.0	981.8	981.9	981.9	981.9	981.9	982.8
165°	1003.6	1003.2	1002.9	1002.5	1002.2	1002.1	1002.2	1002.4	1002.6	1002.8	1003.6
167.5°	1020.5	1019.8	1019.1	1018.4	1017.7	1017.2	1017.2	1017.2	1017.2	1017.2	1018.4
170°	1029.6	1028.9	1028.2	1027.5	1026.8	1026.4	1026.4	1026.4	1026.4	1026.4	1027.5
172.5°	1036.2	1035.4	1034.7	1034.0	1033.3	1032.9	1032.9	1032.9	1032.9	1032.9	1034.0
175°	1043.5	1042.8	1042.0	1041.3	1040.6	1040.2	1040.2	1040.2	1040.2	1040.2	1041.3
177.5°	1047.3	1046.7	1046.1	1045.5	1044.9	1044.6	1044.4	1044.2	1044.2	1044.0	1044.9
180°	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9



TEST NUMBER: P333281-930
 CATALOG NUMBER: S125DIP-S1090D1035U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1120.1	1121.4	1122.8	1123.4	1123.2	1123.0	1122.8	1122.7
5°	1116.6	1118.6	1120.5	1121.4	1121.2	1121.0	1120.7	1120.5
7.5°	1107.3	1109.1	1110.8	1111.5	1111.3	1111.0	1110.8	1110.5
10°	1098.5	1100.2	1102.0	1102.7	1102.4	1102.2	1102.0	1101.7
12.5°	1088.1	1089.4	1090.7	1091.0	1090.5	1089.8	1089.2	1088.5
15°	1068.4	1069.8	1071.3	1071.5	1070.6	1069.6	1068.6	1067.6
17.5°	1043.3	1044.3	1045.5	1045.7	1045.1	1044.6	1044.0	1043.4
20°	1023.9	1024.7	1025.4	1025.8	1025.8	1025.8	1025.8	1025.8
22.5°	1004.1	1005.0	1005.9	1006.1	1005.5	1004.9	1004.4	1003.8
25°	972.7	973.7	974.7	974.5	973.3	972.1	970.9	969.6
27.5°	936.2	936.9	937.6	937.8	937.3	936.9	936.4	936.0
30°	911.2	911.7	912.2	912.3	912.1	911.8	911.6	911.3
32.5°	887.5	887.9	888.4	888.5	888.3	888.0	887.8	887.5
35°	849.0	849.7	850.4	850.8	850.8	850.8	850.8	850.8
37.5°	808.5	809.5	810.5	810.9	810.8	810.7	810.6	810.5
40°	781.2	782.2	783.2	783.9	784.4	784.9	785.4	785.9
42.5°	756.0	757.2	758.4	759.0	759.1	759.2	759.4	759.5
45°	715.5	717.2	718.9	719.9	720.2	720.4	720.6	720.9
47.5°	673.8	676.2	678.7	680.2	680.8	681.3	681.8	682.4
50°	646.0	648.7	651.3	653.1	653.8	654.5	655.3	656.0
52.5°	618.2	621.0	623.9	625.7	626.1	626.7	627.3	627.8
55°	574.4	577.1	579.8	581.6	582.6	583.6	584.6	585.5
57.5°	531.2	534.3	537.4	539.2	540.0	540.7	541.4	542.2
60°	501.5	505.2	508.8	511.0	511.8	512.5	513.2	514.0
62.5°	471.5	475.6	479.6	482.1	483.1	484.0	484.9	485.8
65°	426.6	430.3	434.0	436.3	437.3	438.3	439.3	440.3
67.5°	380.7	385.1	389.6	392.5	393.7	395.0	396.2	397.5
70°	349.4	354.0	358.7	361.7	363.2	364.7	366.2	367.6
72.5°	320.2	325.3	330.3	333.4	334.4	335.5	336.6	337.7
75°	276.1	281.0	285.9	288.9	290.2	291.4	292.6	293.8
77.5°	232.0	237.3	242.7	245.9	246.9	247.9	248.8	249.8
80°	205.5	210.9	216.3	219.5	220.5	221.4	222.4	223.4
82.5°	180.5	185.7	190.9	194.4	196.2	197.9	199.7	201.4
85°	146.1	151.5	156.9	160.5	162.5	164.4	166.4	168.4
87.5°	121.2	127.0	132.8	136.6	138.4	140.2	142.1	143.9
90°	116.3	122.9	129.4	133.8	136.1	138.3	140.6	142.8
92.5°	131.3	137.9	144.5	148.9	151.0	153.0	155.2	157.3
95°	156.3	163.0	169.6	174.0	176.0	178.1	180.2	182.3
97.5°	187.3	193.6	200.0	204.1	205.9	207.8	209.7	211.6
100°	208.5	215.2	222.0	226.3	228.1	230.0	231.8	233.7
102.5°	230.9	237.7	244.3	248.7	250.7	252.7	254.6	256.6
105°	267.0	273.0	279.0	283.1	285.4	287.6	289.8	292.1
107.5°	307.6	313.0	318.4	321.8	323.3	324.7	326.3	327.8
110°	335.6	340.8	346.0	349.4	350.9	352.4	353.9	355.5



TEST NUMBER: P333281-930

CATALOG NUMBER: S125DIP-S1090D1035U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	363.6	368.4	373.1	376.1	377.5	378.9	380.3	381.6
115°	407.1	411.3	415.5	418.2	419.6	420.9	422.2	423.4
117.5°	450.1	454.4	458.8	461.4	462.3	463.3	464.1	465.1
120°	479.6	483.7	487.9	490.3	491.1	491.8	492.5	493.3
122.5°	507.8	511.7	515.5	517.9	518.8	519.7	520.6	521.5
125°	550.1	553.7	557.2	559.5	560.5	561.6	562.6	563.7
127.5°	591.7	595.2	598.6	600.8	601.9	602.9	604.0	605.0
130°	619.9	623.1	626.4	628.4	629.3	630.1	631.0	631.9
132.5°	646.4	649.5	652.8	654.7	655.3	655.7	656.2	656.8
135°	686.6	689.8	693.0	694.9	695.4	695.9	696.3	696.8
137.5°	727.0	730.1	733.2	734.8	734.9	734.9	735.0	735.1
140°	752.3	755.3	758.4	759.9	760.0	760.1	760.2	760.2
142.5°	777.4	779.9	782.4	783.7	783.8	783.9	784.0	784.1
145°	814.8	816.0	817.3	818.1	818.5	818.9	819.4	819.8
147.5°	850.1	850.9	851.7	851.8	851.0	850.2	849.4	848.6
150°	872.5	872.5	872.5	872.5	872.4	872.3	872.1	872.0
152.5°	894.3	894.7	895.1	895.0	894.5	893.8	893.2	892.7
155°	925.3	926.0	926.8	926.7	925.8	924.8	923.9	923.0
157.5°	952.1	952.8	953.6	953.3	952.2	951.0	949.7	948.6
160°	968.4	969.1	969.9	969.8	968.9	968.0	967.1	966.1
162.5°	983.7	984.6	985.5	985.4	984.3	983.3	982.2	981.1
165°	1004.2	1004.9	1005.7	1005.5	1004.4	1003.3	1002.2	1001.2
167.5°	1019.5	1020.5	1021.7	1021.6	1020.5	1019.4	1018.2	1017.1
170°	1028.6	1029.6	1030.7	1030.6	1029.4	1028.1	1026.9	1025.6
172.5°	1035.1	1036.2	1037.2	1037.2	1036.1	1035.0	1033.9	1032.7
175°	1042.4	1043.5	1044.6	1044.5	1043.3	1042.0	1040.6	1039.4
177.5°	1045.7	1046.6	1047.4	1047.4	1046.4	1045.4	1044.3	1043.3
180°	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9

(END OF REPORT)