

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: P333190-830

Luminaire Tested: **S125DIP-S610D1035U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333190-830
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-S610D1035U830-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 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: 6163.6 lumens
Efficiency: N/A
Efficacy: 138.5 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

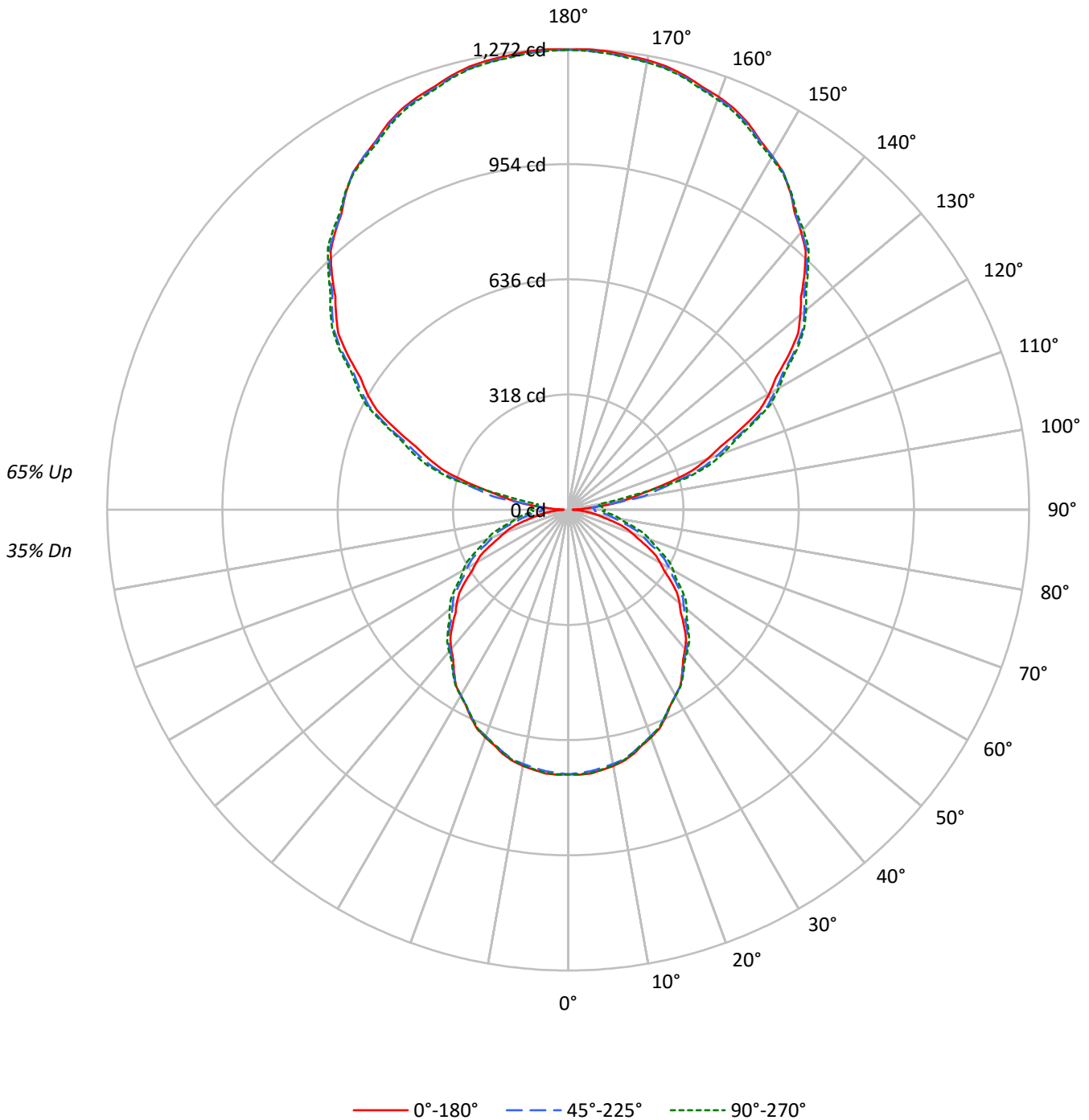
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333190-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-D

Luminous Intensity Polar Plot





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CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-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	0
RCR																		
0	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42	35
1	94	89	85	82	84	81	77	74	65	62	60	50	48	47	36	35	34	28
2	85	78	72	66	77	70	65	61	56	53	49	43	41	39	32	30	28	23
3	78	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24	19
4	71	60	52	46	64	54	48	42	44	39	35	34	30	28	25	22	21	16
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	54	43	36	31	35	30	26	27	24	21	20	18	16	12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4718	4718	4718
5°	4727	4630	4645
10°	4693	4548	4541
15°	4638	4449	4409
20°	4562	4326	4276
25°	4473	4195	4112
30°	4364	4051	3964
35°	4263	3919	3829
40°	4160	3779	3691
45°	4043	3661	3570
50°	3932	3531	3463
55°	3798	3408	3337
60°	3652	3269	3208
65°	3499	3124	3063
70°	3326	2924	2915
75°	3052	2732	2732
80°	2694	2501	2532
85°	2358	2344	2469



TEST NUMBER: P333190-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.1
10°-20°	196.1	3.2
20°-30°	291.6	4.7
30°-40°	345.4	5.6
40°-50°	357.1	5.8
50°-60°	329.0	5.3
60°-70°	265.9	4.3
70°-80°	178.1	2.9
80°-90°	95.0	1.5
90°-100°	98.0	1.6
100°-110°	322.6	5.2
110°-120°	541.3	8.8
120°-130°	676.3	11.0
130°-140°	718.2	11.7
140°-150°	669.4	10.9
150°-160°	540.5	8.8
160°-170°	349.6	5.7
170°-180°	120.6	2.0
0°-30°	556.7	9.0
0°-40°	902.2	14.6
0°-60°	1588.2	25.8
0°-90°	2127.3	34.5
90°-120°	961.8	15.6
90°-150°	3025.8	49.1
90°-180°	4036.0	65.5
0°-180°	6163.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	730	729	724	729	729	69
15°	698	698	693	697	695	196
25°	634	636	632	634	631	292
35°	549	553	551	554	554	343
45°	452	460	463	468	469	349
55°	347	359	370	378	381	310
65°	239	256	273	283	286	237
75°	132	151	173	187	191	140
85°	39	63	88	103	110	42
90°	12	43	74	94	103	10
95°	63	77	67	87	93	76
105°	283	299	320	334	338	300
115°	524	534	553	562	561	519
125°	742	748	762	769	770	662
135°	923	928	931	938	936	711
145°	1069	1070	1070	1074	1072	668
155°	1176	1171	1173	1175	1168	542
165°	1241	1236	1237	1242	1235	351
175°	1270	1264	1265	1271	1264	121
180°	1270	1270	1270	1270	1270	



TEST NUMBER: P333190-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
2.5°	732.2	731.9	731.7	731.4	731.1	730.6	729.7	728.8	727.9	727.0	727.9
5°	730.5	730.1	729.8	729.5	729.2	728.5	727.4	726.2	725.1	724.0	725.3
7.5°	724.0	723.9	723.8	723.6	723.5	722.8	721.7	720.6	719.4	718.3	719.3
10°	718.3	718.3	718.3	718.3	718.3	717.7	716.3	715.1	713.8	712.6	713.7
12.5°	710.3	710.4	710.5	710.7	710.8	710.3	709.3	708.3	707.3	706.2	707.1
15°	697.5	697.7	697.9	698.0	698.1	697.7	696.5	695.4	694.4	693.2	694.2
17.5°	680.9	681.2	681.6	681.8	682.2	681.7	680.7	679.6	678.4	677.3	678.1
20°	668.8	669.2	669.5	669.9	670.1	669.8	668.6	667.5	666.4	665.2	665.7
22.5°	655.2	655.7	656.3	656.9	657.4	657.0	655.8	654.6	653.4	652.1	652.7
25°	633.8	634.2	634.7	635.2	635.7	635.5	634.5	633.6	632.5	631.6	632.3
27.5°	610.0	610.7	611.4	612.1	612.8	612.7	611.5	610.5	609.4	608.3	608.7
30°	592.2	593.2	594.2	595.1	596.1	596.1	595.1	594.2	593.2	592.2	592.6
32.5°	576.2	577.0	577.9	578.7	579.5	579.6	578.9	578.2	577.5	576.7	577.1
35°	548.6	549.7	550.8	551.9	553.0	553.4	552.9	552.3	551.9	551.4	551.9
37.5°	520.9	522.0	522.9	524.0	525.0	525.4	525.3	525.1	524.9	524.8	525.4
40°	502.0	503.3	504.5	505.9	507.1	507.7	507.5	507.4	507.2	507.0	507.7
42.5°	481.4	483.1	484.7	486.4	488.0	489.0	489.4	489.7	490.0	490.4	491.2
45°	451.9	453.6	455.3	457.1	458.9	460.1	461.0	461.8	462.5	463.4	464.5
47.5°	421.7	423.3	424.9	426.5	428.2	429.6	431.0	432.3	433.8	435.1	436.8
50°	401.1	402.7	404.5	406.3	408.0	409.8	411.5	413.3	415.0	416.8	418.6
52.5°	379.3	381.4	383.5	385.7	387.8	389.9	392.1	394.2	396.3	398.4	400.3
55°	347.3	349.9	352.4	355.0	357.5	360.1	362.6	365.1	367.7	370.2	372.0
57.5°	314.7	317.7	320.7	323.9	326.9	329.9	332.8	335.7	338.7	341.6	343.6
60°	292.9	296.1	299.3	302.5	305.7	308.8	312.0	315.2	318.4	321.5	324.0
62.5°	271.7	274.8	278.1	281.3	284.5	287.8	291.2	294.6	298.0	301.5	304.2
65°	239.2	242.9	246.5	250.2	253.8	257.6	261.4	265.2	269.0	272.9	275.2
67.5°	208.6	212.1	215.6	219.1	222.6	226.4	230.3	234.1	238.0	242.0	244.8
70°	186.2	189.8	193.5	197.2	200.9	204.7	208.9	213.0	217.2	221.3	224.3
72.5°	164.4	168.2	172.0	175.8	179.6	183.7	188.2	192.7	197.3	201.8	205.1
75°	131.8	135.9	140.1	144.2	148.4	153.0	158.1	163.2	168.2	173.3	176.4
77.5°	100.4	105.2	110.0	114.7	119.5	124.3	129.2	134.1	139.0	143.9	147.4
80°	81.0	85.7	90.5	95.3	100.0	105.1	110.6	115.9	121.3	126.8	130.3
82.5°	63.2	68.1	73.2	78.2	83.3	88.6	94.1	99.6	105.2	110.7	114.0
85°	39.4	44.7	49.9	55.1	60.4	65.8	71.4	76.9	82.5	88.1	91.6
87.5°	22.5	28.0	33.4	38.8	44.2	49.8	55.5	61.2	66.9	72.6	76.5
90°	12.4	19.1	25.9	32.7	39.5	46.3	53.2	60.0	66.9	73.8	78.5
92.5°	24.8	28.4	31.9	35.4	38.9	44.1	51.0	57.8	64.7	71.4	76.1
95°	63.0	66.4	69.9	73.5	77.0	77.5	74.9	72.4	69.8	67.3	71.9
97.5°	120.5	125.3	130.2	135.0	139.9	137.0	126.5	116.0	105.5	95.0	92.5
100°	165.0	169.0	173.0	176.9	180.9	185.9	191.8	197.7	203.7	209.6	181.7
102.5°	210.4	214.2	218.2	222.1	225.9	230.6	236.1	241.6	247.0	252.5	249.8
105°	283.1	286.5	289.9	293.3	296.6	300.8	305.5	310.3	315.1	319.8	323.0
107.5°	358.7	360.8	363.0	365.1	367.3	370.9	375.9	381.0	386.0	391.0	394.2
110°	407.8	409.7	411.6	413.5	415.5	418.9	423.7	428.6	433.5	438.4	440.7



TEST NUMBER: P333190-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	454.5	456.5	458.5	460.5	462.6	465.9	470.5	475.0	479.7	484.2	486.4
115°	523.8	525.9	528.1	530.3	532.4	535.6	540.0	544.4	548.7	553.1	555.1
117.5°	595.5	596.3	596.9	597.6	598.3	601.0	605.7	610.4	615.1	619.8	621.4
120°	640.7	640.9	641.2	641.5	641.8	644.0	648.4	652.6	657.0	661.2	663.5
122.5°	680.0	681.1	682.0	683.1	684.1	686.5	690.3	694.2	698.0	701.8	704.0
125°	741.6	742.9	744.2	745.6	746.9	749.1	752.2	755.4	758.7	761.9	763.6
127.5°	799.8	800.7	801.6	802.5	803.3	805.0	807.6	810.0	812.5	815.0	816.9
130°	835.9	836.9	837.7	838.6	839.5	841.1	843.6	846.0	848.5	850.9	852.5
132.5°	871.6	872.7	873.9	875.1	876.3	877.5	878.7	880.0	881.3	882.5	884.6
135°	922.7	923.9	924.9	926.0	927.2	928.0	928.8	929.4	930.1	930.9	932.5
137.5°	969.9	970.8	971.8	972.7	973.7	974.3	974.4	974.6	974.8	975.0	976.9
140°	1000.1	1000.6	1001.0	1001.5	1001.8	1002.0	1001.9	1001.9	1001.8	1001.8	1004.0
142.5°	1028.0	1028.1	1028.2	1028.4	1028.5	1028.7	1029.1	1029.4	1029.7	1030.0	1031.6
145°	1068.8	1069.1	1069.4	1069.6	1069.9	1070.1	1070.1	1070.1	1070.1	1070.1	1071.0
147.5°	1103.9	1103.8	1103.7	1103.6	1103.5	1103.6	1103.9	1104.2	1104.4	1104.7	1105.1
150°	1126.5	1126.1	1125.7	1125.2	1124.8	1124.8	1125.2	1125.7	1126.1	1126.5	1126.9
152.5°	1148.3	1147.5	1146.5	1145.6	1144.6	1144.4	1144.8	1145.2	1145.7	1146.0	1146.5
155°	1176.4	1175.2	1173.8	1172.6	1171.4	1170.9	1171.4	1171.8	1172.1	1172.6	1173.3
157.5°	1198.0	1197.2	1196.6	1195.8	1195.0	1194.7	1194.7	1194.8	1194.8	1194.9	1195.5
160°	1213.1	1211.8	1210.6	1209.3	1208.1	1207.5	1207.8	1208.0	1208.2	1208.3	1209.2
162.5°	1225.1	1223.9	1222.6	1221.3	1220.1	1219.6	1219.7	1220.0	1220.2	1220.4	1221.6
165°	1241.3	1240.0	1238.8	1237.6	1236.3	1235.8	1236.0	1236.1	1236.4	1236.6	1237.8
167.5°	1253.4	1252.1	1250.8	1249.4	1248.2	1247.6	1247.8	1248.0	1248.2	1248.5	1250.0
170°	1260.1	1258.7	1257.2	1255.7	1254.2	1253.7	1253.9	1254.1	1254.2	1254.5	1256.1
172.5°	1264.6	1263.2	1261.7	1260.3	1258.8	1258.3	1258.6	1259.0	1259.3	1259.7	1261.2
175°	1269.5	1268.3	1267.1	1265.7	1264.5	1264.0	1264.2	1264.4	1264.6	1264.8	1266.5
177.5°	1271.8	1270.8	1269.8	1268.8	1267.8	1267.3	1267.5	1267.7	1267.9	1268.0	1269.2
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5



TEST NUMBER: P333190-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
2.5°	728.8	729.7	730.6	730.9	730.8	730.8	730.6	730.5
5°	726.5	727.8	729.1	729.6	729.5	729.3	729.2	729.1
7.5°	720.5	721.6	722.7	723.2	723.0	722.9	722.7	722.6
10°	714.8	715.9	717.0	717.5	717.4	717.2	717.0	716.8
12.5°	707.9	708.8	709.7	709.9	709.5	709.1	708.7	708.2
15°	695.1	696.1	697.0	697.2	696.5	695.9	695.3	694.7
17.5°	678.8	679.5	680.2	680.4	680.0	679.7	679.3	678.9
20°	666.3	666.8	667.2	667.4	667.4	667.4	667.4	667.4
22.5°	653.3	653.9	654.5	654.6	654.2	653.8	653.5	653.1
25°	632.9	633.6	634.1	634.1	633.3	632.5	631.7	630.9
27.5°	609.2	609.6	610.1	610.1	609.8	609.5	609.3	609.0
30°	592.9	593.2	593.5	593.6	593.4	593.2	593.1	593.0
32.5°	577.4	577.7	578.1	578.2	578.0	577.8	577.7	577.5
35°	552.3	552.9	553.4	553.6	553.6	553.6	553.6	553.6
37.5°	526.0	526.7	527.4	527.6	527.5	527.4	527.4	527.4
40°	508.3	509.0	509.5	510.0	510.4	510.7	511.0	511.3
42.5°	491.9	492.7	493.4	493.9	494.0	494.0	494.1	494.2
45°	465.5	466.7	467.8	468.4	468.6	468.7	468.9	469.1
47.5°	438.4	440.0	441.6	442.6	443.0	443.3	443.7	444.0
50°	420.3	422.1	423.8	424.9	425.4	425.8	426.3	426.8
52.5°	402.2	404.1	406.0	407.1	407.5	407.7	408.1	408.5
55°	373.7	375.5	377.2	378.4	379.1	379.8	380.3	381.0
57.5°	345.6	347.6	349.6	350.8	351.4	351.9	352.3	352.8
60°	326.3	328.7	331.1	332.5	333.0	333.5	333.9	334.4
62.5°	306.8	309.4	312.1	313.7	314.2	314.9	315.5	316.1
65°	277.6	280.0	282.4	283.9	284.6	285.2	285.8	286.4
67.5°	247.7	250.6	253.4	255.3	256.2	257.0	257.9	258.6
70°	227.3	230.4	233.4	235.4	236.3	237.2	238.3	239.2
72.5°	208.4	211.6	214.9	216.9	217.6	218.3	219.0	219.7
75°	179.6	182.9	186.1	188.0	188.8	189.6	190.4	191.2
77.5°	150.9	154.5	158.0	160.0	160.6	161.3	161.9	162.6
80°	133.7	137.2	140.7	142.8	143.5	144.1	144.8	145.3
82.5°	117.4	120.8	124.2	126.5	127.6	128.8	129.9	131.0
85°	95.1	98.6	102.1	104.4	105.8	107.0	108.3	109.5
87.5°	80.4	84.3	88.1	90.7	91.9	93.1	94.3	95.6
90°	83.2	87.9	92.6	95.9	97.6	99.3	101.0	102.8
92.5°	80.7	85.2	89.8	92.8	94.2	95.6	97.0	98.4
95°	76.4	81.0	85.5	88.3	89.4	90.6	91.7	92.8
97.5°	89.9	87.4	84.7	84.1	85.1	86.2	87.3	88.4
100°	153.9	126.1	98.3	84.5	84.5	84.7	84.8	84.9
102.5°	247.1	244.4	241.8	233.8	220.5	207.3	194.0	180.7
105°	326.2	329.4	332.5	334.6	335.5	336.4	337.3	338.2
107.5°	397.3	400.5	403.7	405.5	405.9	406.2	406.5	406.9
110°	443.1	445.5	447.9	449.8	451.1	452.4	453.7	455.1



TEST NUMBER: P333190-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	488.4	490.5	492.7	494.1	494.9	495.8	496.5	497.4
115°	557.1	559.1	561.2	562.0	561.8	561.5	561.1	560.8
117.5°	623.0	624.7	626.3	627.4	627.9	628.5	629.0	629.5
120°	665.8	668.1	670.3	671.5	671.4	671.3	671.2	671.1
122.5°	706.2	708.3	710.5	711.4	711.1	710.9	710.7	710.4
125°	765.3	766.9	768.6	769.6	769.8	770.0	770.1	770.2
127.5°	818.8	820.7	822.6	823.2	822.6	822.0	821.3	820.7
130°	854.1	855.7	857.3	858.0	857.7	857.5	857.2	857.0
132.5°	886.7	888.8	890.9	891.7	891.4	891.0	890.6	890.2
135°	934.2	935.8	937.5	938.0	937.5	937.1	936.6	936.2
137.5°	978.8	980.8	982.8	983.5	983.1	982.6	982.2	981.8
140°	1006.2	1008.3	1010.5	1011.3	1010.7	1010.0	1009.4	1008.8
142.5°	1033.2	1034.8	1036.3	1036.8	1036.2	1035.6	1035.0	1034.3
145°	1072.0	1073.1	1074.0	1074.2	1073.7	1073.0	1072.4	1071.8
147.5°	1105.7	1106.2	1106.6	1106.4	1105.1	1103.9	1102.7	1101.5
150°	1127.4	1127.8	1128.1	1127.7	1126.1	1124.5	1123.0	1121.5
152.5°	1146.9	1147.4	1147.7	1147.2	1145.8	1144.2	1142.8	1141.3
155°	1173.8	1174.5	1175.2	1174.6	1172.9	1171.2	1169.6	1167.9
157.5°	1196.2	1196.8	1197.5	1197.0	1195.3	1193.6	1191.9	1190.3
160°	1210.0	1210.9	1211.7	1211.3	1209.7	1208.0	1206.3	1204.6
162.5°	1222.8	1223.9	1225.1	1224.7	1222.9	1221.1	1219.3	1217.4
165°	1239.1	1240.4	1241.6	1241.4	1239.7	1238.0	1236.4	1234.7
167.5°	1251.5	1253.0	1254.5	1254.3	1252.5	1250.6	1248.7	1246.8
170°	1257.8	1259.5	1261.2	1261.0	1259.1	1257.4	1255.5	1253.6
172.5°	1262.7	1264.2	1265.7	1265.6	1263.7	1261.8	1259.9	1258.1
175°	1268.2	1269.9	1271.5	1271.4	1269.5	1267.6	1265.7	1263.9
177.5°	1270.4	1271.6	1272.7	1272.6	1271.3	1270.0	1268.7	1267.2
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5

(END OF REPORT)