

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: P333317-927

Luminaire Tested: **S125DIP-S1270D810U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333317-927
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-S1270D810U927-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6125.0 lumens
Efficiency: N/A
Efficacy: 100.9 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: General Diffuse

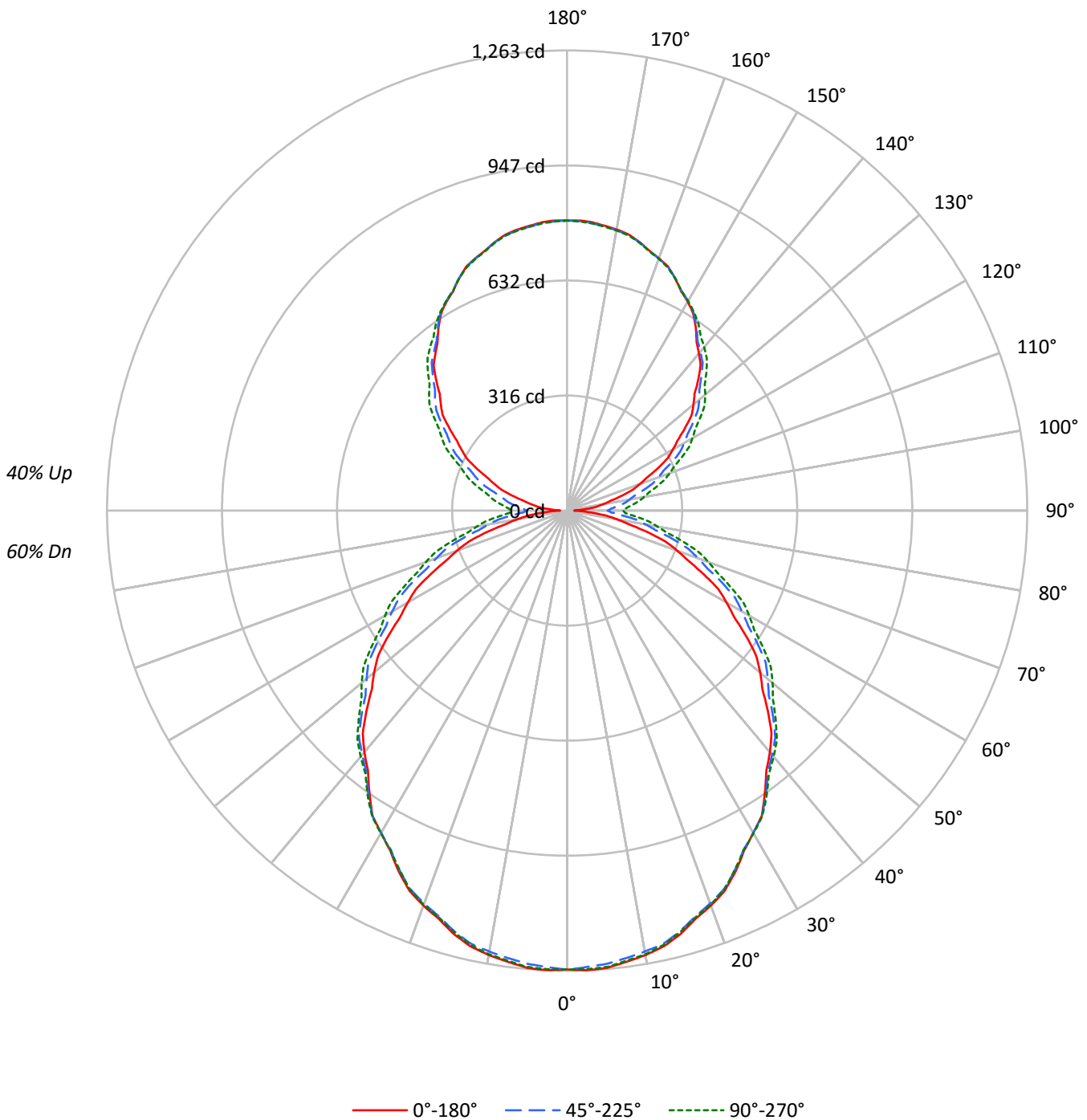
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333317-927

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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	99	94	90	86	92	88	84	81	77	74	71	66	64	62	56	55	53	49
2	90	82	75	70	84	77	71	66	67	62	58	57	54	51	49	46	44	40
3	82	72	64	58	76	67	60	55	58	53	49	51	46	43	43	40	37	33
4	75	63	55	49	69	59	52	46	52	46	41	45	40	36	38	35	32	28
5	69	56	48	42	64	53	45	39	46	40	35	40	35	31	34	31	28	25
6	63	51	42	36	59	47	40	34	42	35	31	36	31	28	31	27	24	21
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	28	25	21	19
8	54	41	33	28	50	39	32	27	34	28	24	30	25	22	26	22	19	17
9	50	38	30	25	47	36	29	24	32	26	22	28	23	19	24	20	17	15
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8136	8136	8136
5°	8152	7986	8012
10°	8094	7843	7832
15°	7999	7673	7603
20°	7869	7462	7374
25°	7714	7235	7092
30°	7527	6987	6837
35°	7352	6759	6602
40°	7174	6519	6367
45°	6972	6313	6157
50°	6781	6089	5972
55°	6550	5879	5755
60°	6298	5638	5533
65°	6034	5387	5283
70°	5737	5044	5027
75°	5263	4712	4712
80°	4643	4312	4369
85°	4070	4042	4260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.9
10°-20°	338.2	5.5
20°-30°	502.9	8.2
30°-40°	595.7	9.7
40°-50°	615.9	10.1
50°-60°	567.4	9.3
60°-70°	458.6	7.5
70°-80°	307.2	5.0
80°-90°	161.0	2.6
90°-100°	142.7	2.3
100°-110°	223.3	3.6
110°-120°	310.8	5.1
120°-130°	376.0	6.1
130°-140°	404.2	6.6
140°-150°	387.6	6.3
150°-160°	323.7	5.3
160°-170°	215.2	3.5
170°-180°	75.3	1.2
0°-30°	960.2	15.7
0°-40°	1555.9	25.4
0°-60°	2739.2	44.7
0°-90°	3666.1	59.9
90°-120°	676.9	11.1
90°-150°	1844.7	30.1
90°-180°	2459.0	40.1
0°-180°	6125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1260	1257	1249	1258	1257	119
15°	1203	1204	1196	1202	1198	339
25°	1093	1096	1089	1094	1088	503
35°	946	954	951	954	955	592
45°	779	792	799	807	809	601
55°	599	619	639	652	657	535
65°	412	441	471	488	494	409
75°	227	260	299	323	330	241
85°	68	109	152	178	189	72
90°	20	65	111	142	153	15
95°	56	91	138	168	179	56
105°	152	176	216	243	255	163
115°	274	287	319	340	347	271
125°	395	398	422	440	446	353
135°	509	512	521	536	541	392
145°	615	616	618	624	628	384
155°	702	702	703	705	702	323
165°	764	763	763	765	762	215
175°	794	792	792	795	791	75
180°	796	796	796	796	796	



TEST NUMBER: P333317-927

CATALOG NUMBER: S125DIP-S1270D810U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8
2.5°	1262.7	1262.3	1261.9	1261.5	1261.0	1260.0	1258.5	1257.0	1255.5	1253.9	1255.5
5°	1259.8	1259.3	1258.7	1258.1	1257.6	1256.4	1254.4	1252.5	1250.6	1248.7	1250.9
7.5°	1248.7	1248.5	1248.2	1248.0	1247.8	1246.7	1244.8	1242.8	1240.8	1238.8	1240.7
10°	1238.8	1238.8	1238.8	1238.8	1238.8	1237.7	1235.5	1233.3	1231.1	1228.9	1230.8
12.5°	1225.0	1225.2	1225.4	1225.7	1225.8	1225.1	1223.4	1221.5	1219.8	1218.1	1219.6
15°	1203.0	1203.2	1203.6	1203.8	1204.1	1203.2	1201.3	1199.4	1197.5	1195.6	1197.2
17.5°	1174.3	1174.9	1175.4	1176.0	1176.5	1175.8	1173.9	1172.0	1170.1	1168.2	1169.4
20°	1153.6	1154.1	1154.7	1155.2	1155.8	1155.1	1153.2	1151.3	1149.3	1147.4	1148.3
22.5°	1129.9	1130.8	1131.9	1132.8	1133.9	1133.2	1131.1	1128.9	1126.8	1124.7	1125.7
25°	1093.1	1093.9	1094.7	1095.5	1096.4	1096.0	1094.3	1092.7	1091.0	1089.3	1090.4
27.5°	1052.1	1053.3	1054.5	1055.7	1056.9	1056.5	1054.7	1052.8	1051.0	1049.1	1049.9
30°	1021.4	1023.1	1024.7	1026.4	1028.0	1028.0	1026.4	1024.7	1023.1	1021.4	1022.0
32.5°	993.8	995.2	996.6	998.1	999.5	999.6	998.4	997.2	995.9	994.7	995.3
35°	946.1	948.0	949.9	951.9	953.8	954.3	953.5	952.7	951.9	951.0	951.9
37.5°	898.4	900.2	901.9	903.7	905.5	906.2	905.9	905.6	905.4	905.1	906.2
40°	865.8	868.0	870.2	872.4	874.6	875.5	875.3	875.0	874.7	874.5	875.5
42.5°	830.2	833.1	835.9	838.8	841.7	843.4	844.0	844.6	845.2	845.8	847.1
45°	779.3	782.4	785.4	788.4	791.4	793.6	795.0	796.4	797.7	799.1	801.1
47.5°	727.2	730.0	732.8	735.6	738.4	741.0	743.4	745.8	748.1	750.4	753.3
50°	691.7	694.7	697.7	700.7	703.8	706.8	709.8	712.8	715.8	718.8	721.8
52.5°	654.1	657.8	661.5	665.1	668.8	672.5	676.2	679.9	683.5	687.2	690.5
55°	599.0	603.4	607.8	612.2	616.6	621.0	625.3	629.8	634.1	638.6	641.6
57.5°	542.7	548.0	553.3	558.5	563.8	568.9	574.0	579.0	584.1	589.1	592.6
60°	505.2	510.6	516.1	521.7	527.1	532.6	538.1	543.6	549.1	554.5	558.6
62.5°	468.6	474.1	479.6	485.1	490.5	496.3	502.2	508.1	514.0	520.0	524.5
65°	412.5	418.8	425.2	431.5	437.8	444.3	450.8	457.4	464.0	470.6	474.7
67.5°	359.7	365.8	371.9	378.0	384.0	390.5	397.1	403.9	410.5	417.2	422.2
70°	321.2	327.4	333.7	340.1	346.3	353.1	360.2	367.4	374.5	381.7	386.9
72.5°	283.6	290.1	296.7	303.2	309.7	316.9	324.6	332.5	340.2	348.1	353.7
75°	227.3	234.4	241.5	248.7	255.8	263.8	272.5	281.3	290.1	298.9	304.4
77.5°	173.2	181.4	189.6	197.9	206.1	214.4	222.9	231.3	239.8	248.3	254.3
80°	139.6	147.8	156.1	164.3	172.5	181.3	190.6	199.9	209.3	218.6	224.7
82.5°	108.9	117.6	126.3	135.0	143.6	152.7	162.3	171.8	181.4	190.9	196.8
85°	68.0	77.0	86.0	95.1	104.2	113.5	123.1	132.7	142.3	151.9	158.0
87.5°	38.7	47.7	56.6	65.7	74.7	84.0	93.5	103.0	112.5	122.0	128.5
90°	20.4	30.3	40.2	50.1	59.9	70.0	80.3	90.6	100.9	111.2	118.2
92.5°	32.8	41.7	50.5	59.5	68.4	78.2	88.9	99.7	110.4	121.1	128.1
95°	56.3	63.8	71.1	78.6	86.0	95.1	105.8	116.5	127.1	137.8	144.9
97.5°	81.4	88.0	94.5	101.1	107.6	116.3	127.2	138.2	149.0	159.9	166.6
100°	100.3	106.1	111.9	117.6	123.3	131.5	142.1	152.7	163.3	173.8	180.9
102.5°	120.6	126.5	132.4	138.2	144.1	151.8	161.3	170.7	180.2	189.7	196.6
105°	152.3	157.4	162.5	167.6	172.7	179.7	188.8	197.9	206.9	215.9	222.3
107.5°	187.5	191.9	196.4	200.8	205.3	211.7	220.2	228.8	237.3	245.9	251.7
110°	211.8	215.8	219.8	223.8	227.8	233.8	241.9	250.0	258.1	266.2	271.8



TEST NUMBER: P333317-927

CATALOG NUMBER: S125DIP-S1270D810U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	237.6	240.6	243.6	246.6	249.5	255.1	263.1	271.0	279.0	287.0	292.2
115°	274.4	276.9	279.3	281.8	284.3	289.2	296.7	304.0	311.5	318.9	323.7
117.5°	311.3	312.8	314.3	315.8	317.3	321.6	328.6	335.6	342.6	349.6	354.4
120°	335.1	336.6	338.1	339.6	341.1	345.2	351.6	358.1	364.5	370.9	375.6
122.5°	359.9	360.5	361.2	361.8	362.4	366.0	372.4	378.8	385.3	391.7	396.1
125°	394.6	395.1	395.7	396.2	396.8	399.9	405.5	411.1	416.8	422.4	426.5
127.5°	430.5	430.7	430.9	431.1	431.3	433.7	438.4	443.1	447.7	452.4	456.3
130°	452.8	453.2	453.6	454.1	454.5	456.7	460.8	464.9	469.1	473.2	476.9
132.5°	474.1	475.2	476.3	477.4	478.4	480.4	483.3	486.2	489.2	492.0	495.7
135°	509.2	509.8	510.2	510.8	511.4	512.7	514.8	516.8	518.9	520.9	524.5
137.5°	542.2	542.7	543.3	543.9	544.5	545.3	546.6	547.8	549.1	550.3	553.7
140°	562.4	563.2	563.8	564.5	565.2	565.9	566.6	567.3	568.0	568.6	572.0
142.5°	583.8	584.2	584.5	584.9	585.2	585.7	586.2	586.8	587.4	588.0	590.7
145°	615.1	615.4	615.7	615.9	616.2	616.6	617.0	617.3	617.8	618.2	619.6
147.5°	642.9	643.2	643.5	643.8	644.0	644.4	644.8	645.1	645.4	645.7	646.5
150°	662.2	662.0	661.9	661.8	661.6	661.9	662.4	663.0	663.5	664.1	664.1
152.5°	678.0	678.3	678.4	678.7	678.8	679.1	679.2	679.5	679.7	679.9	680.2
155°	702.4	702.4	702.4	702.4	702.4	702.5	702.7	702.8	702.9	703.1	703.6
157.5°	724.3	724.0	723.7	723.3	723.0	722.9	723.1	723.3	723.3	723.5	724.1
160°	737.1	736.7	736.3	735.9	735.5	735.4	735.5	735.6	735.8	735.9	736.5
162.5°	748.5	748.2	747.9	747.7	747.3	747.2	747.2	747.3	747.3	747.3	748.0
165°	763.8	763.5	763.3	763.0	762.7	762.6	762.7	762.9	763.0	763.2	763.7
167.5°	776.7	776.1	775.5	775.0	774.4	774.2	774.2	774.2	774.2	774.2	775.0
170°	783.6	783.1	782.5	782.0	781.4	781.1	781.1	781.1	781.1	781.1	782.0
172.5°	788.5	788.0	787.4	786.9	786.3	786.1	786.1	786.1	786.1	786.1	786.9
175°	794.2	793.6	793.1	792.5	791.9	791.6	791.6	791.6	791.6	791.6	792.5
177.5°	797.0	796.5	796.1	795.7	795.2	795.0	794.9	794.7	794.6	794.5	795.2
180°	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0



TEST NUMBER: P333317-927

CATALOG NUMBER: S125DIP-S1270D810U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8
2.5°	1257.0	1258.5	1260.0	1260.7	1260.4	1260.3	1260.0	1259.8
5°	1253.1	1255.3	1257.5	1258.5	1258.1	1257.9	1257.6	1257.4
7.5°	1242.6	1244.6	1246.5	1247.3	1247.1	1246.7	1246.5	1246.2
10°	1232.8	1234.7	1236.6	1237.5	1237.2	1236.9	1236.6	1236.4
12.5°	1221.0	1222.5	1224.0	1224.4	1223.7	1223.0	1222.3	1221.5
15°	1198.9	1200.6	1202.1	1202.5	1201.3	1200.2	1199.1	1198.0
17.5°	1170.7	1172.0	1173.2	1173.5	1172.8	1172.2	1171.6	1170.8
20°	1149.1	1149.9	1150.7	1151.1	1151.1	1151.1	1151.1	1151.1
22.5°	1126.8	1127.8	1128.9	1129.0	1128.4	1127.8	1127.0	1126.4
25°	1091.5	1092.7	1093.8	1093.6	1092.3	1090.8	1089.5	1088.1
27.5°	1050.7	1051.4	1052.2	1052.3	1051.8	1051.3	1050.8	1050.4
30°	1022.5	1023.1	1023.7	1023.7	1023.5	1023.2	1022.9	1022.6
32.5°	995.9	996.4	997.0	997.1	996.8	996.6	996.2	996.0
35°	952.7	953.5	954.3	954.7	954.7	954.7	954.7	954.7
37.5°	907.3	908.4	909.5	910.0	909.8	909.7	909.7	909.5
40°	876.6	877.7	878.8	879.6	880.2	880.7	881.3	881.9
42.5°	848.4	849.8	851.0	851.8	851.9	852.0	852.2	852.2
45°	803.0	804.9	806.8	807.9	808.2	808.4	808.7	809.0
47.5°	756.1	758.8	761.7	763.3	764.0	764.5	765.2	765.8
50°	724.8	727.9	730.9	732.8	733.6	734.5	735.3	736.1
52.5°	693.7	697.0	700.1	702.1	702.7	703.3	703.9	704.5
55°	644.6	647.6	650.6	652.7	653.8	654.9	656.0	657.1
57.5°	596.0	599.5	603.0	605.1	605.9	606.7	607.6	608.4
60°	562.8	566.9	571.0	573.5	574.3	575.1	576.0	576.8
62.5°	529.1	533.6	538.2	541.0	542.0	543.1	544.2	545.2
65°	478.8	482.9	487.0	489.6	490.8	491.9	493.0	494.0
67.5°	427.2	432.2	437.2	440.4	441.8	443.2	444.7	446.2
70°	392.1	397.3	402.5	405.9	407.6	409.2	410.9	412.5
72.5°	359.3	365.0	370.7	374.1	375.3	376.5	377.7	378.9
75°	309.9	315.4	320.8	324.3	325.7	327.0	328.4	329.8
77.5°	260.3	266.3	272.4	276.0	277.1	278.1	279.2	280.4
80°	230.7	236.7	242.8	246.4	247.4	248.5	249.6	250.7
82.5°	202.6	208.4	214.2	218.1	220.1	222.0	224.0	226.0
85°	164.0	170.0	176.1	180.2	182.4	184.6	186.8	188.9
87.5°	134.9	141.4	147.8	152.1	154.1	156.1	158.0	160.1
90°	125.2	132.2	139.2	143.9	146.2	148.5	150.8	153.2
92.5°	135.1	142.1	149.1	153.8	156.0	158.2	160.4	162.6
95°	151.9	158.8	165.9	170.5	172.7	174.8	177.1	179.3
97.5°	173.3	180.0	186.6	191.0	193.0	195.0	197.1	199.1
100°	187.8	194.8	201.8	206.3	208.2	210.2	212.1	214.0
102.5°	203.5	210.4	217.3	221.7	223.8	225.8	227.8	229.9
105°	228.6	235.0	241.2	245.6	247.9	250.3	252.5	254.9
107.5°	257.5	263.4	269.3	273.0	274.6	276.4	278.1	279.7
110°	277.4	283.0	288.7	292.4	294.2	296.0	297.8	299.5



TEST NUMBER: P333317-927

CATALOG NUMBER: S125DIP-S1270D810U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	297.4	302.6	307.8	311.2	312.8	314.6	316.2	317.9
115°	328.4	333.3	338.1	341.3	342.8	344.3	345.8	347.3
117.5°	359.2	363.9	368.7	371.8	373.0	374.4	375.7	377.0
120°	380.2	384.9	389.6	392.4	393.6	394.7	395.8	396.9
122.5°	400.4	404.8	409.1	411.9	413.0	414.3	415.5	416.7
125°	430.6	434.7	438.9	441.5	442.8	444.0	445.2	446.5
127.5°	460.3	464.1	468.1	470.7	472.0	473.3	474.7	475.9
130°	480.6	484.3	488.0	490.4	491.5	492.6	493.7	494.8
132.5°	499.5	503.2	506.8	509.1	509.8	510.6	511.4	512.1
135°	528.1	531.6	535.2	537.4	538.2	539.0	539.9	540.7
137.5°	557.1	560.5	564.0	565.9	566.3	566.6	567.0	567.4
140°	575.2	578.5	581.9	583.7	584.1	584.5	584.9	585.3
142.5°	593.5	596.2	599.0	600.6	600.9	601.3	601.7	602.2
145°	621.0	622.3	623.7	624.7	625.4	626.1	626.8	627.5
147.5°	647.3	648.0	648.8	649.0	648.5	648.1	647.6	647.2
150°	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1
152.5°	680.6	680.9	681.2	681.2	680.7	680.3	679.9	679.4
155°	704.2	704.7	705.3	705.2	704.5	703.9	703.1	702.4
157.5°	724.6	725.2	725.7	725.6	724.6	723.7	722.8	721.9
160°	737.0	737.5	738.1	738.1	737.4	736.7	735.9	735.3
162.5°	748.6	749.3	750.0	749.9	749.1	748.3	747.5	746.7
165°	764.3	764.9	765.3	765.2	764.4	763.6	762.7	761.9
167.5°	775.9	776.7	777.5	777.4	776.7	775.8	774.9	774.0
170°	782.8	783.6	784.4	784.3	783.4	782.4	781.5	780.5
172.5°	787.7	788.5	789.4	789.4	788.5	787.7	786.8	785.9
175°	793.3	794.2	795.0	794.9	793.9	793.0	792.0	791.1
177.5°	795.8	796.5	797.2	797.1	796.3	795.6	794.8	794.0
180°	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0

(END OF REPORT)