

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: P333475-927

Luminaire Tested: **S125DIW-S1270D1050U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333475-927
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: S125DIW-S1270D1050U927-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6782.5 lumens
Efficiency: N/A
Efficacy: 100.6 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

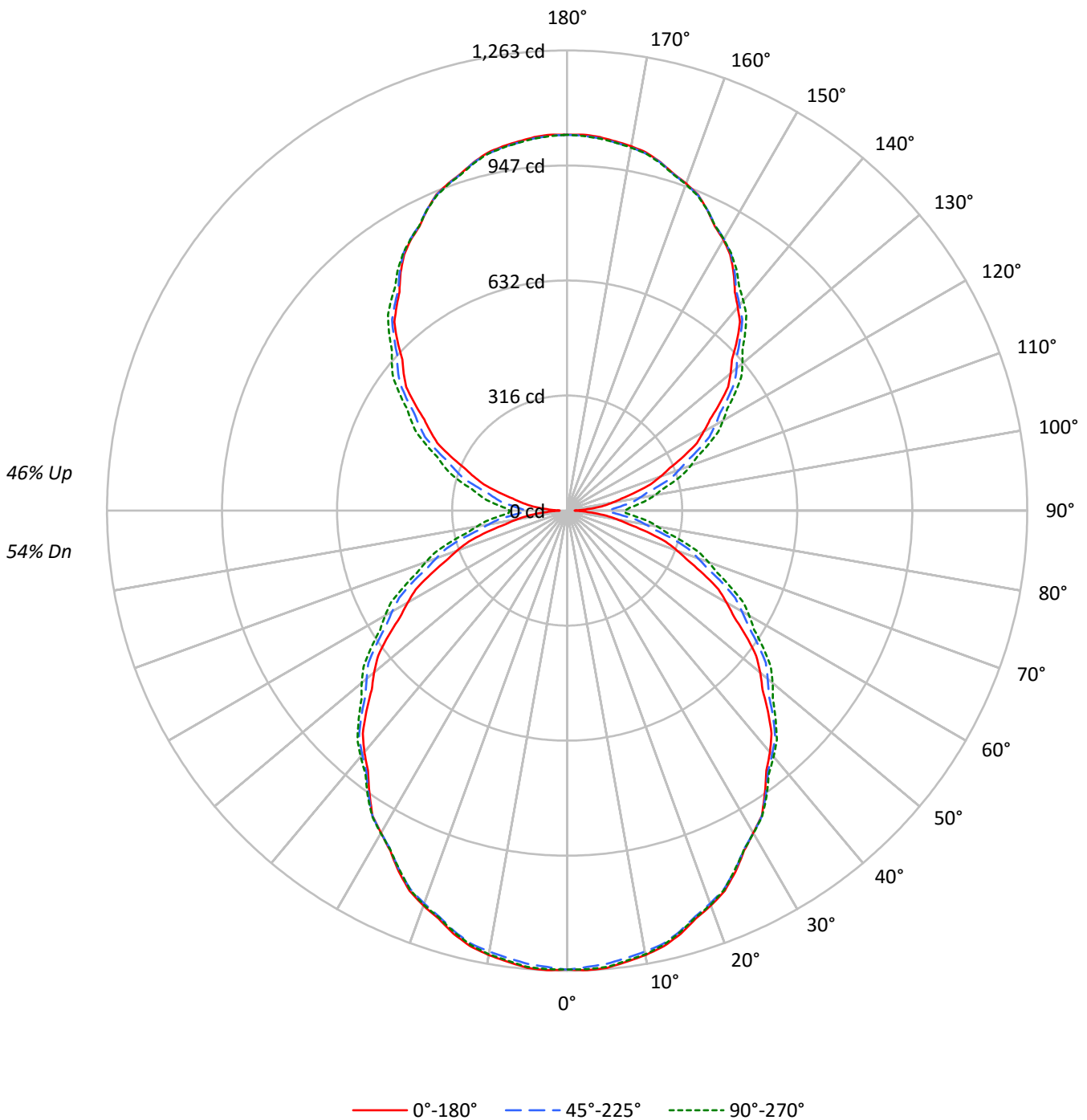
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	98	93	89	85	91	86	83	79	74	71	69	62	60	58	52	50	49	44
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	43	41	36
3	81	71	63	57	75	66	59	54	56	51	47	48	44	40	40	37	34	30
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29	26
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25	22
6	62	50	42	35	58	47	39	34	40	34	30	34	30	26	29	25	22	19
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	23	20	17
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18	15
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	19	16	14
10	47	34	27	22	43	32	25	21	28	22	19	24	20	17	21	17	14	12

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	1.8
10°-20°	338.2	5.0
20°-30°	502.9	7.4
30°-40°	595.7	8.8
40°-50°	615.9	9.1
50°-60°	567.4	8.4
60°-70°	458.6	6.8
70°-80°	307.2	4.5
80°-90°	161.5	2.4
90°-100°	158.5	2.3
100°-110°	269.9	4.0
110°-120°	389.7	5.7
120°-130°	479.8	7.1
130°-140°	520.5	7.7
140°-150°	501.6	7.4
150°-160°	419.5	6.2
160°-170°	278.8	4.1
170°-180°	97.6	1.4
0°-30°	960.2	14.2
0°-40°	1555.9	22.9
0°-60°	2739.2	40.4
0°-90°	3666.6	54.1
90°-120°	818.1	12.1
90°-150°	2320.0	34.2
90°-180°	3116.0	45.9
0°-180°	6782.5	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°	21	67	114	145	158	16
95°	68	103	152	184	195	68
105°	194	219	260	288	300	207
115°	353	366	399	420	427	349
125°	510	515	539	556	562	456
135°	659	663	672	687	691	508
145°	797	799	801	807	810	498
155°	910	910	911	914	910	419
165°	990	988	989	992	987	279
175°	1029	1026	1026	1030	1025	98
180°	1031	1031	1031	1031	1031	



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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	47.8	56.8	65.9	74.9	84.3	93.9	103.5	113.0	122.6	129.1
90°	20.6	30.7	41.0	51.2	61.4	71.8	82.4	92.9	103.5	114.2	121.4
92.5°	37.2	46.3	55.5	64.6	73.7	83.8	94.9	106.0	117.1	128.2	135.4
95°	68.2	75.7	83.2	90.7	98.2	107.5	118.6	129.8	140.9	151.9	159.2
97.5°	101.2	107.8	114.4	121.0	127.5	136.6	148.0	159.5	171.0	182.4	189.3
100°	126.0	131.7	137.5	143.2	149.0	157.5	168.6	179.7	190.8	201.8	209.2
102.5°	152.6	158.6	164.7	170.7	176.7	184.7	194.4	204.1	213.9	223.6	230.9
105°	194.2	199.4	204.7	210.0	215.2	222.5	231.9	241.1	250.5	259.8	266.3
107.5°	240.2	244.8	249.4	254.1	258.6	265.3	274.1	282.8	291.5	300.2	306.2
110°	272.0	276.1	280.3	284.5	288.7	294.9	303.1	311.3	319.6	327.7	333.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	305.3	308.4	311.5	314.6	317.7	323.4	331.4	339.6	347.8	355.9	361.2
115°	353.4	356.0	358.6	361.2	363.9	369.0	376.4	384.0	391.4	398.9	403.7
117.5°	401.6	403.1	404.7	406.3	407.9	412.3	419.3	426.4	433.5	440.5	445.4
120°	432.4	434.1	435.9	437.5	439.3	443.4	449.9	456.4	462.9	469.4	474.0
122.5°	464.8	465.5	466.2	466.9	467.6	471.3	477.8	484.3	490.9	497.5	501.8
125°	509.8	510.6	511.4	512.2	513.0	516.3	521.9	527.6	533.2	538.9	543.0
127.5°	556.7	557.1	557.5	557.8	558.1	560.6	565.3	570.1	574.7	579.5	583.4
130°	585.7	586.3	586.8	587.5	588.1	590.5	594.7	599.0	603.2	607.4	611.0
132.5°	613.5	615.0	616.4	617.8	619.2	621.3	624.2	627.1	630.0	633.0	636.6
135°	659.1	659.9	660.7	661.5	662.3	663.7	665.8	667.9	670.0	672.1	675.7
137.5°	701.9	702.7	703.5	704.3	705.1	706.2	707.5	708.8	710.2	711.5	714.9
140°	728.5	729.4	730.2	731.2	732.1	732.9	733.7	734.5	735.3	736.1	739.5
142.5°	756.1	756.6	757.2	757.6	758.2	758.8	759.5	760.3	761.0	761.8	764.5
145°	796.7	797.2	797.6	798.0	798.4	798.9	799.5	800.0	800.6	801.1	802.5
147.5°	833.1	833.5	833.9	834.2	834.6	835.0	835.4	835.8	836.3	836.7	837.6
150°	858.1	857.9	857.7	857.5	857.4	857.6	858.3	859.0	859.8	860.5	860.5
152.5°	878.6	878.8	879.1	879.4	879.6	879.9	880.2	880.4	880.7	881.1	881.5
155°	910.2	910.2	910.2	910.2	910.2	910.3	910.5	910.7	910.9	911.1	911.8
157.5°	938.5	938.1	937.7	937.3	936.9	936.8	937.0	937.2	937.4	937.5	938.3
160°	955.2	954.7	954.1	953.6	953.1	952.9	953.1	953.2	953.4	953.6	954.3
162.5°	969.9	969.6	969.2	968.8	968.4	968.2	968.3	968.3	968.4	968.4	969.2
165°	989.8	989.4	989.0	988.6	988.2	988.2	988.4	988.6	988.7	988.9	989.6
167.5°	1006.4	1005.7	1005.0	1004.2	1003.5	1003.2	1003.2	1003.2	1003.2	1003.2	1004.2
170°	1015.4	1014.7	1014.0	1013.3	1012.6	1012.2	1012.2	1012.2	1012.2	1012.2	1013.3
172.5°	1021.8	1021.1	1020.4	1019.7	1019.0	1018.6	1018.6	1018.6	1018.6	1018.6	1019.7
175°	1029.0	1028.3	1027.6	1026.9	1026.2	1025.8	1025.8	1025.8	1025.8	1025.8	1026.9
177.5°	1032.8	1032.1	1031.6	1031.0	1030.5	1030.1	1029.9	1029.8	1029.7	1029.5	1030.4
180°	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4



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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°	135.6	142.1	148.6	152.8	154.9	156.9	158.9	161.0
90°	128.5	135.7	142.9	147.7	150.2	152.7	155.1	157.6
92.5°	142.7	150.0	157.2	162.0	164.3	166.7	169.0	171.3
95°	166.5	173.8	181.1	185.9	188.1	190.4	192.7	195.0
97.5°	196.3	203.2	210.2	214.7	216.7	218.8	220.9	223.0
100°	216.6	223.9	231.3	236.0	238.1	240.0	242.0	244.1
102.5°	238.2	245.5	252.8	257.5	259.6	261.7	264.0	266.1
105°	272.9	279.5	286.0	290.5	292.9	295.4	297.9	300.3
107.5°	312.2	318.1	324.1	328.0	329.6	331.3	333.0	334.6
110°	339.3	345.0	350.8	354.5	356.2	358.0	359.7	361.5



TEST NUMBER: P333475-927

CATALOG NUMBER: S125DIW-S1270D1050U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	366.4	371.6	376.9	380.3	381.9	383.5	385.1	386.7
115°	408.4	413.2	418.0	421.1	422.6	424.1	425.5	427.0
117.5°	450.1	455.0	459.8	462.7	463.9	465.1	466.2	467.4
120°	478.6	483.3	488.0	490.8	491.7	492.7	493.6	494.6
122.5°	506.1	510.4	514.7	517.4	518.5	519.5	520.6	521.7
125°	547.0	551.0	555.1	557.7	558.9	560.1	561.3	562.4
127.5°	587.2	591.1	595.0	597.5	598.8	600.0	601.3	602.5
130°	614.7	618.3	622.0	624.3	625.3	626.4	627.4	628.4
132.5°	640.2	643.9	647.6	649.7	650.4	651.0	651.7	652.4
135°	679.2	682.8	686.3	688.5	689.1	689.8	690.5	691.1
137.5°	718.4	721.8	725.3	727.1	727.3	727.5	727.7	727.9
140°	742.9	746.2	749.6	751.4	751.6	751.9	752.0	752.3
142.5°	767.4	770.2	772.9	774.4	774.7	774.8	775.1	775.2
145°	803.8	805.2	806.6	807.6	808.1	808.7	809.2	809.8
147.5°	838.4	839.3	840.2	840.3	839.6	838.8	838.1	837.4
150°	860.5	860.5	860.5	860.5	860.4	860.3	860.2	860.1
152.5°	881.9	882.3	882.7	882.6	882.1	881.5	880.9	880.4
155°	912.5	913.2	913.9	913.8	912.9	912.0	911.2	910.2
157.5°	939.0	939.7	940.4	940.2	939.0	937.8	936.6	935.5
160°	955.1	955.8	956.5	956.3	955.5	954.6	953.7	952.8
162.5°	970.1	970.9	971.8	971.7	970.7	969.6	968.6	967.6
165°	990.3	991.0	991.7	991.6	990.5	989.4	988.4	987.3
167.5°	1005.4	1006.4	1007.5	1007.5	1006.4	1005.3	1004.2	1003.1
170°	1014.3	1015.4	1016.4	1016.4	1015.1	1013.9	1012.6	1011.4
172.5°	1020.7	1021.8	1022.9	1022.9	1021.8	1020.6	1019.5	1018.4
175°	1027.9	1029.0	1030.2	1030.0	1028.8	1027.5	1026.3	1025.0
177.5°	1031.3	1032.1	1032.9	1032.8	1031.9	1030.9	1029.9	1028.9
180°	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4

(END OF REPORT)