

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: P333336-927

Luminaire Tested: **S125DIP-S1270D1205U927-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333336-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S1270D1205U927-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7328.4 lumens
Efficiency: N/A
Efficacy: 102.2 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: General Diffuse

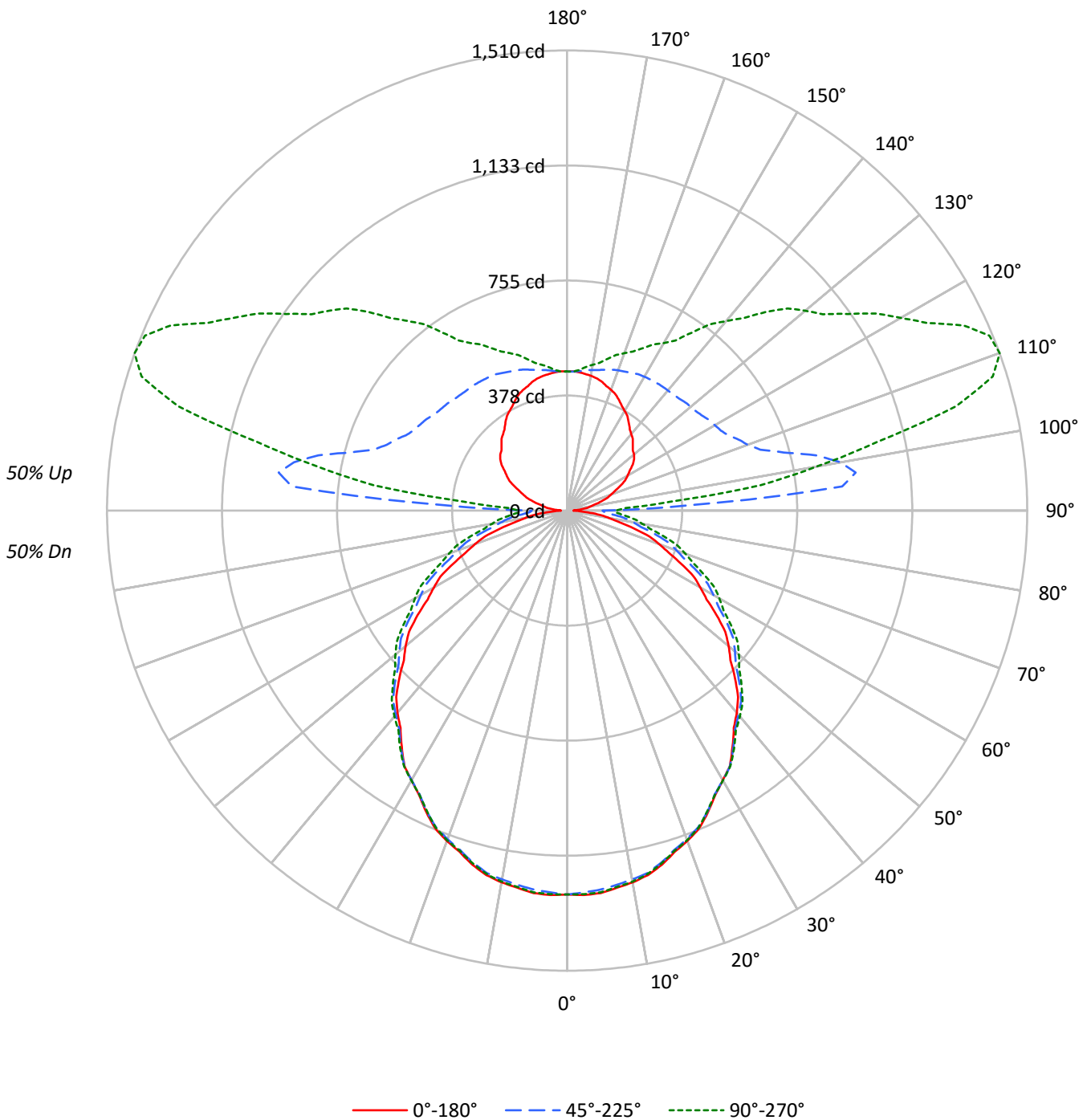
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	48	47	46	41
2	88	80	74	68	81	74	69	64	63	58	55	52	49	46	42	40	38	33
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	34	32	28
4	73	62	54	48	67	57	50	45	49	43	39	41	36	33	33	30	27	24
5	67	55	47	41	62	51	44	38	43	38	33	36	32	28	30	26	24	21
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21	18
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	18	16
8	53	40	33	27	49	38	31	26	32	27	23	27	23	19	23	19	17	14
9	49	37	29	24	45	34	27	23	30	24	20	25	21	17	21	17	15	13
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	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	1.6
10°-20°	338.2	4.6
20°-30°	502.9	6.9
30°-40°	595.7	8.1
40°-50°	615.9	8.4
50°-60°	567.4	7.7
60°-70°	458.6	6.3
70°-80°	307.2	4.2
80°-90°	161.8	2.2
90°-100°	420.3	5.7
100°-110°	777.3	10.6
110°-120°	711.8	9.7
120°-130°	566.2	7.7
130°-140°	445.2	6.1
140°-150°	329.9	4.5
150°-160°	230.7	3.1
160°-170°	136.0	1.9
170°-180°	44.2	0.6
0°-30°	960.2	13.1
0°-40°	1555.9	21.2
0°-60°	2739.2	37.4
0°-90°	3666.9	50.0
90°-120°	1909.4	26.1
90°-150°	3250.7	44.4
90°-180°	3662.0	50.0
0°-180°	7328.4	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	68	116	148	160	15
95°	46	138	906	486	342	45
105°	115	177	735	1406	1321	121
115°	193	242	584	1224	1436	190
125°	263	307	542	966	1125	233
135°	304	365	520	795	921	236
145°	353	403	512	644	712	221
155°	401	432	499	564	588	185
165°	438	450	479	508	516	123
175°	456	456	459	465	463	43
180°	456	456	456	456	456	



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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	47.7	56.8	66.0	75.2	84.6	94.1	103.8	113.3	123.0	129.5
90°	20.7	30.4	41.0	51.7	62.3	73.1	83.4	94.6	104.8	116.0	123.3
92.5°	29.0	39.5	55.4	74.9	98.9	134.6	194.4	288.3	389.4	394.1	343.6
95°	46.4	54.5	69.0	86.3	113.6	163.3	271.1	483.0	746.3	905.7	894.3
97.5°	65.0	72.6	84.1	100.7	125.3	162.9	237.0	394.4	669.2	955.0	1099.5
100°	78.0	85.6	95.1	111.0	134.2	169.1	231.2	359.7	600.5	910.2	1146.1
102.5°	92.5	98.9	107.2	123.3	144.7	178.6	234.6	343.6	548.1	836.3	1111.0
105°	115.1	119.5	128.5	142.1	161.2	193.3	242.1	332.2	494.2	735.3	1005.0
107.5°	137.2	142.8	150.9	162.2	181.3	210.2	257.4	335.4	468.7	664.7	898.1
110°	153.1	158.3	165.2	176.8	193.9	223.4	268.8	340.0	459.1	630.6	836.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	170.1	174.6	180.1	191.1	207.6	235.8	279.5	346.8	455.3	609.0	789.6
115°	193.4	197.1	201.8	212.0	227.8	255.2	296.4	357.0	452.5	583.9	737.0
117.5°	214.2	218.2	222.4	232.0	248.9	275.2	314.2	369.5	453.0	568.5	703.1
120°	228.9	232.5	237.0	246.1	262.6	289.1	327.7	378.2	455.4	560.2	683.6
122.5°	243.4	245.8	249.1	257.9	275.3	301.6	339.8	387.9	456.9	552.5	666.1
125°	262.7	264.3	268.5	276.6	293.8	320.4	356.2	401.2	460.2	542.0	642.1
127.5°	276.7	279.2	284.8	295.0	313.4	339.4	373.2	414.2	465.2	534.2	619.6
130°	286.3	288.8	295.9	307.5	326.6	352.4	384.7	423.5	468.8	529.7	605.4
132.5°	292.6	296.1	304.9	318.3	338.3	363.7	395.1	430.9	472.4	525.8	592.6
135°	304.4	307.8	318.5	333.0	352.0	377.8	408.2	440.5	476.5	519.8	575.8
137.5°	319.2	321.8	331.8	346.3	365.1	391.1	418.0	448.0	481.3	516.5	561.7
140°	327.1	329.9	340.9	355.6	373.1	398.1	425.1	453.0	482.7	514.3	554.1
142.5°	337.4	339.2	349.3	363.8	380.3	403.6	428.9	455.1	483.2	513.0	548.0
145°	352.8	354.4	363.4	376.0	392.3	413.3	437.2	460.3	485.1	511.7	540.7
147.5°	367.8	368.9	376.8	388.8	403.1	421.8	442.8	463.6	486.0	509.4	534.2
150°	377.4	379.2	385.7	397.7	410.5	426.2	446.4	465.8	486.0	507.2	529.3
152.5°	387.7	388.8	394.5	405.0	417.2	431.3	450.1	467.2	485.3	504.2	524.1
155°	401.3	401.3	406.9	416.1	425.2	438.2	453.8	468.5	483.2	498.9	515.5
157.5°	413.5	413.3	417.7	425.6	433.7	443.5	456.9	469.4	480.9	493.4	507.4
160°	421.6	420.6	424.4	430.8	438.2	446.4	458.4	469.4	478.6	489.7	500.7
162.5°	428.2	427.3	430.9	436.7	442.6	449.4	459.9	468.7	476.4	485.3	494.9
165°	438.2	436.3	439.1	443.7	447.3	452.9	460.3	467.6	473.1	478.6	486.0
167.5°	444.8	443.9	445.5	448.1	450.7	454.2	460.3	465.4	467.9	472.2	477.4
170°	449.2	448.3	449.2	451.1	452.9	455.7	460.3	463.9	465.8	468.5	472.2
172.5°	452.2	450.5	451.4	453.2	454.3	455.7	459.5	462.5	462.8	464.1	467.1
175°	455.7	453.8	454.7	455.7	455.7	455.7	458.4	460.3	459.3	459.3	460.3
177.5°	457.3	455.8	455.8	456.5	455.8	455.8	457.3	458.0	456.5	456.5	457.3
180°	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5



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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°	136.0	142.5	149.0	153.4	155.4	157.3	159.4	161.4
90°	130.5	137.7	145.0	150.9	152.8	154.7	157.6	159.5
92.5°	272.6	234.0	210.8	201.2	191.3	191.1	191.7	192.1
95°	764.1	630.2	523.0	449.6	386.3	360.5	355.1	342.3
97.5°	1081.2	988.8	884.3	780.6	725.6	675.9	651.1	641.2
100°	1222.7	1183.4	1094.4	1002.3	940.5	875.8	843.4	830.4
102.5°	1267.7	1301.1	1261.2	1199.9	1133.6	1088.1	1052.8	1043.4
105°	1231.4	1362.9	1409.0	1402.5	1375.0	1346.6	1330.1	1320.9
107.5°	1121.5	1295.2	1404.6	1456.3	1472.8	1474.4	1470.0	1464.3
110°	1040.5	1220.6	1355.6	1437.4	1480.7	1500.2	1508.6	1510.5



TEST NUMBER: P333336-927

CATALOG NUMBER: S125DIP-S1270D1205U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	975.7	1146.8	1283.0	1378.7	1441.2	1473.1	1491.1	1499.6
115°	893.8	1041.5	1172.5	1276.1	1349.6	1395.4	1422.8	1436.5
117.5°	838.4	966.1	1079.3	1174.6	1248.3	1295.9	1323.3	1332.5
120°	807.9	923.1	1029.0	1113.2	1182.9	1228.8	1255.2	1264.2
122.5°	783.6	890.5	985.2	1064.0	1126.4	1168.5	1195.1	1203.3
125°	748.7	847.0	931.4	1000.6	1053.5	1092.7	1114.3	1124.9
127.5°	713.0	804.6	883.4	948.3	996.6	1031.6	1052.3	1058.0
130°	691.1	775.9	851.6	914.0	961.5	993.2	1013.0	1019.9
132.5°	668.8	748.5	817.5	877.6	924.7	956.2	974.4	981.8
135°	638.3	705.4	767.9	822.8	864.7	896.4	914.4	921.3
137.5°	613.0	667.6	719.8	766.5	803.9	832.6	849.0	856.1
140°	598.6	644.8	690.1	730.9	766.0	791.1	806.0	811.7
142.5°	586.1	625.3	664.3	699.7	729.7	751.1	765.2	770.2
145°	570.7	600.6	630.5	656.6	679.8	696.5	707.7	712.5
147.5°	557.1	580.7	603.0	622.3	640.2	653.2	659.7	661.8
150°	549.5	569.8	587.2	604.0	618.1	629.4	633.3	634.5
152.5°	542.2	560.2	576.2	589.1	600.8	609.7	613.4	614.4
155°	531.1	545.8	558.7	568.9	578.1	584.5	587.2	588.2
157.5°	520.1	532.2	542.2	550.1	557.2	562.6	565.1	565.0
160°	512.7	521.9	531.1	537.6	544.0	548.6	550.5	549.5
162.5°	504.6	513.1	520.8	526.5	531.5	535.4	535.8	535.5
165°	493.4	499.8	505.3	509.9	513.7	515.5	515.5	515.5
167.5°	482.7	487.0	491.2	494.5	496.3	498.0	497.3	497.1
170°	476.8	479.6	482.4	484.2	486.0	487.0	487.0	486.0
172.5°	470.2	472.9	475.0	476.1	476.4	478.1	476.7	475.7
175°	463.0	463.0	464.9	464.9	464.9	465.8	463.9	463.0
177.5°	458.0	458.8	458.8	458.8	458.0	458.8	456.5	456.5
180°	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5

(END OF REPORT)