

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: P333336-930

Luminaire Tested: **S125DIP-S1270D1205U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333336-930
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-S1270D1205U930-4F0-1E-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

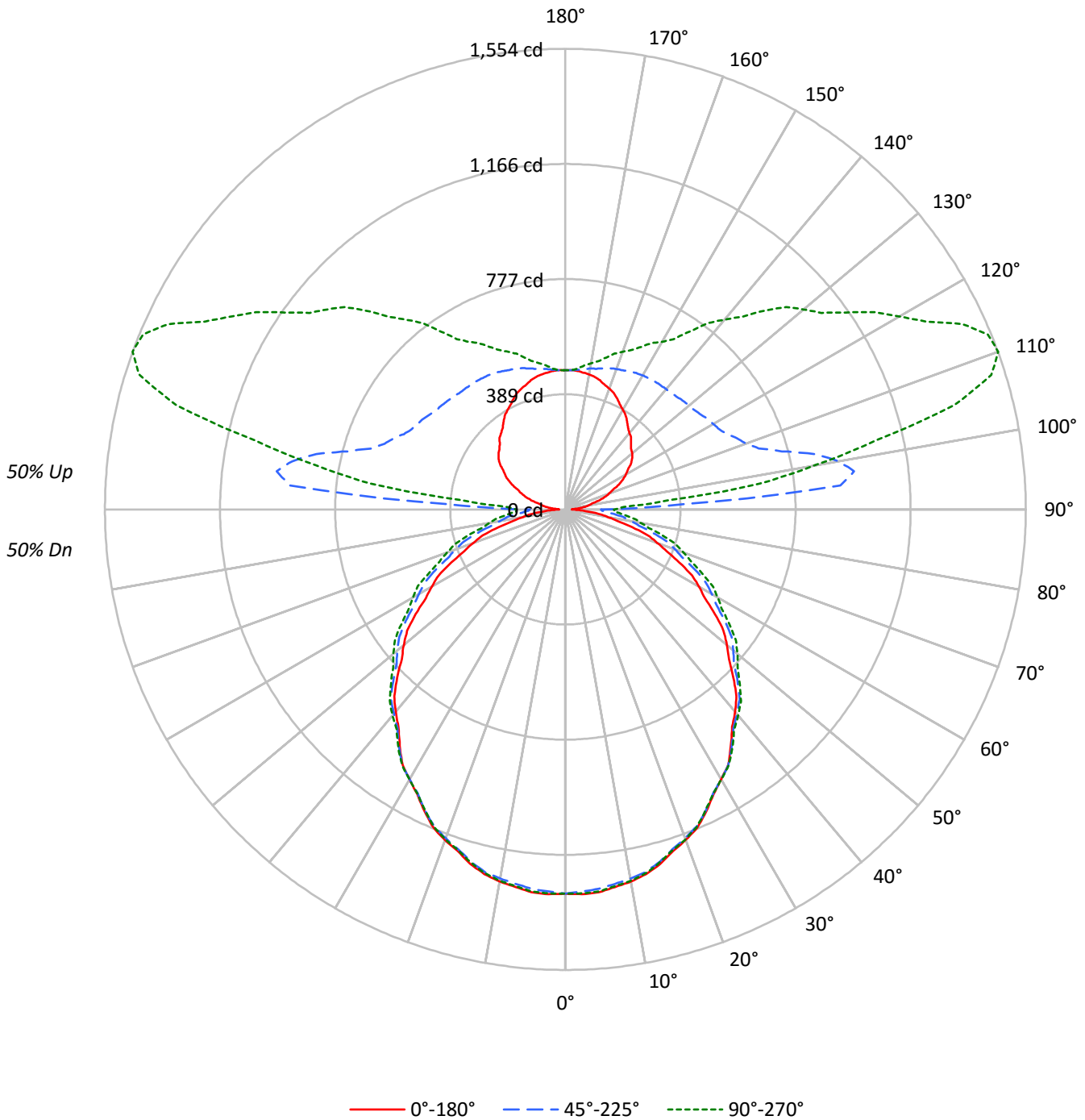
Lumens per Lamp: N/A
Luminaire Lumens: 7542.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: General Diffuse

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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	8374	8374	8374
5°	8391	8220	8245
10°	8331	8072	8060
15°	8232	7896	7825
20°	8098	7680	7590
25°	7939	7447	7300
30°	7746	7191	7036
35°	7566	6956	6795
40°	7383	6709	6552
45°	7176	6497	6337
50°	6978	6267	6147
55°	6741	6051	5923
60°	6482	5802	5695
65°	6210	5544	5437
70°	5903	5190	5173
75°	5415	4849	4849
80°	4780	4438	4496
85°	4189	4162	4384



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CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	1.6
10°-20°	348.0	4.6
20°-30°	517.6	6.9
30°-40°	613.1	8.1
40°-50°	633.9	8.4
50°-60°	583.9	7.7
60°-70°	472.0	6.3
70°-80°	316.1	4.2
80°-90°	166.6	2.2
90°-100°	432.6	5.7
100°-110°	800.0	10.6
110°-120°	732.6	9.7
120°-130°	582.7	7.7
130°-140°	458.2	6.1
140°-150°	339.5	4.5
150°-160°	237.4	3.1
160°-170°	139.9	1.9
170°-180°	45.5	0.6
0°-30°	988.2	13.1
0°-40°	1601.3	21.2
0°-60°	2819.2	37.4
0°-90°	3773.9	50.0
90°-120°	1965.2	26.1
90°-150°	3345.5	44.4
90°-180°	3768.0	50.0
0°-180°	7542.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1297	1294	1285	1295	1294	123
15°	1238	1239	1230	1237	1233	349
25°	1125	1128	1121	1126	1120	518
35°	974	982	979	982	983	609
45°	802	816	822	831	833	619
55°	616	637	657	671	676	551
65°	424	454	484	503	508	421
75°	234	267	308	332	339	248
85°	70	112	156	183	194	74
90°	21	70	119	152	164	15
95°	48	142	932	501	352	46
105°	118	182	757	1447	1359	125
115°	199	249	601	1260	1478	196
125°	270	316	558	994	1158	240
135°	313	376	535	819	948	243
145°	363	414	527	662	733	227
155°	413	444	514	580	605	190
165°	451	463	493	522	530	127
175°	469	469	473	478	476	45
180°	470	470	470	470	470	



TEST NUMBER: P333336-930
 CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1299.6	1299.2	1298.7	1298.3	1297.8	1296.8	1295.2	1293.6	1292.1	1290.5	1292.1
5°	1296.6	1296.0	1295.4	1294.9	1294.3	1293.1	1291.0	1289.1	1287.1	1285.2	1287.4
7.5°	1285.2	1284.9	1284.7	1284.4	1284.3	1283.1	1281.1	1279.0	1277.0	1275.0	1276.9
10°	1275.0	1275.0	1275.0	1275.0	1275.0	1273.8	1271.5	1269.3	1267.1	1264.8	1266.7
12.5°	1260.7	1260.9	1261.2	1261.4	1261.6	1260.9	1259.1	1257.2	1255.4	1253.6	1255.2
15°	1238.1	1238.4	1238.7	1238.9	1239.3	1238.4	1236.4	1234.4	1232.5	1230.4	1232.2
17.5°	1208.6	1209.2	1209.7	1210.3	1210.9	1210.1	1208.2	1206.2	1204.2	1202.2	1203.5
20°	1187.2	1187.8	1188.4	1189.0	1189.5	1188.8	1186.8	1184.9	1182.8	1180.9	1181.8
22.5°	1162.9	1163.8	1164.9	1165.9	1166.9	1166.3	1164.1	1161.9	1159.7	1157.5	1158.5
25°	1124.9	1125.8	1126.7	1127.5	1128.4	1128.0	1126.3	1124.5	1122.8	1121.1	1122.3
27.5°	1082.8	1084.0	1085.2	1086.5	1087.8	1087.4	1085.5	1083.5	1081.7	1079.7	1080.5
30°	1051.2	1053.0	1054.6	1056.3	1058.0	1058.0	1056.3	1054.6	1053.0	1051.2	1051.8
32.5°	1022.8	1024.3	1025.7	1027.2	1028.7	1028.7	1027.5	1026.3	1025.0	1023.8	1024.3
35°	973.7	975.7	977.6	979.7	981.6	982.2	981.3	980.5	979.7	978.8	979.7
37.5°	924.6	926.4	928.2	930.1	931.9	932.6	932.4	932.1	931.8	931.5	932.6
40°	891.0	893.3	895.6	897.9	900.1	901.1	900.8	900.5	900.3	900.0	901.1
42.5°	854.4	857.4	860.3	863.2	866.3	868.0	868.6	869.3	869.8	870.5	871.8
45°	802.1	805.2	808.3	811.4	814.5	816.8	818.2	819.6	821.0	822.4	824.4
47.5°	748.4	751.3	754.2	757.1	759.9	762.6	765.1	767.5	769.9	772.3	775.3
50°	711.8	714.9	718.0	721.1	724.3	727.4	730.5	733.6	736.7	739.8	742.9
52.5°	673.2	677.0	680.8	684.5	688.4	692.1	695.9	699.7	703.4	707.3	710.6
55°	616.5	621.0	625.6	630.1	634.5	639.1	643.6	648.2	652.6	657.2	660.3
57.5°	558.6	563.9	569.4	574.8	580.2	585.5	590.8	595.9	601.1	606.3	609.9
60°	519.9	525.5	531.2	536.9	542.5	548.1	553.8	559.5	565.1	570.7	574.9
62.5°	482.2	488.0	493.6	499.2	504.8	510.8	516.8	522.9	529.0	535.2	539.8
65°	424.5	431.0	437.6	444.1	450.5	457.2	464.0	470.8	477.5	484.3	488.5
67.5°	370.1	376.4	382.7	389.0	395.3	401.9	408.7	415.6	422.5	429.4	434.6
70°	330.5	337.0	343.5	350.0	356.4	363.4	370.7	378.1	385.5	392.8	398.2
72.5°	291.9	298.6	305.3	312.0	318.8	326.1	334.1	342.2	350.2	358.2	364.0
75°	233.9	241.2	248.6	255.9	263.3	271.5	280.5	289.5	298.6	307.6	313.2
77.5°	178.2	186.7	195.2	203.7	212.1	220.7	229.4	238.1	246.8	255.5	261.7
80°	143.7	152.1	160.6	169.1	177.6	186.5	196.2	205.8	215.4	225.0	231.2
82.5°	112.1	121.1	130.0	138.9	147.8	157.2	167.1	176.8	186.7	196.5	202.5
85°	70.0	79.2	88.5	97.9	107.2	116.8	126.7	136.6	146.4	156.4	162.6
87.5°	39.9	49.1	58.5	67.9	77.4	87.1	96.9	106.8	116.6	126.6	133.3
90°	21.3	31.3	42.2	53.2	64.1	75.3	85.9	97.3	107.9	119.4	126.9
92.5°	29.8	40.7	57.0	77.1	101.7	138.5	200.1	296.7	400.7	405.6	353.7
95°	47.8	56.1	71.0	88.8	116.9	168.0	279.0	497.1	768.1	932.1	920.4
97.5°	66.9	74.7	86.6	103.6	129.0	167.6	243.9	405.9	688.8	982.8	1131.6
100°	80.3	88.1	97.8	114.2	138.1	174.1	238.0	370.2	618.0	936.8	1179.6
102.5°	95.2	101.8	110.3	126.9	149.0	183.8	241.5	353.7	564.1	860.7	1143.5
105°	118.5	123.0	132.2	146.3	165.9	198.9	249.2	341.9	508.6	756.8	1034.3
107.5°	141.2	146.9	155.3	167.0	186.5	216.4	264.9	345.2	482.3	684.1	924.3
110°	157.6	162.9	170.1	182.0	199.6	229.9	276.6	349.9	472.5	649.0	860.9



TEST NUMBER: P333336-930

CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	175.0	179.7	185.4	196.7	213.6	242.6	287.6	356.9	468.6	626.7	812.6
115°	199.0	202.8	207.7	218.2	234.4	262.7	305.1	367.4	465.7	601.0	758.6
117.5°	220.5	224.6	228.9	238.7	256.2	283.2	323.3	380.3	466.3	585.1	723.6
120°	235.6	239.3	243.9	253.3	270.3	297.6	337.3	389.2	468.7	576.6	703.5
122.5°	250.5	253.0	256.4	265.4	283.3	310.4	349.8	399.3	470.2	568.7	685.6
125°	270.4	272.0	276.4	284.6	302.4	329.7	366.6	412.9	473.6	557.8	660.9
127.5°	284.8	287.4	293.1	303.6	322.5	349.3	384.1	426.2	478.8	549.8	637.6
130°	294.6	297.2	304.5	316.5	336.1	362.6	395.9	435.9	482.5	545.2	623.1
132.5°	301.2	304.8	313.8	327.6	348.1	374.3	406.7	443.5	486.2	541.1	609.8
135°	313.2	316.7	327.8	342.8	362.3	388.8	420.1	453.4	490.4	535.0	592.6
137.5°	328.6	331.2	341.5	356.4	375.8	402.5	430.2	461.1	495.4	531.6	578.1
140°	336.6	339.5	350.8	366.0	384.0	409.7	437.5	466.2	496.8	529.3	570.3
142.5°	347.2	349.1	359.5	374.4	391.4	415.4	441.4	468.4	497.3	528.0	564.0
145°	363.1	364.8	374.0	386.9	403.7	425.3	450.0	473.7	499.3	526.7	556.5
147.5°	378.5	379.7	387.8	400.1	414.9	434.1	455.7	477.1	500.2	524.2	549.8
150°	388.4	390.3	397.0	409.3	422.5	438.6	459.4	479.4	500.2	522.0	544.7
152.5°	399.0	400.1	406.0	416.9	429.3	443.9	463.3	480.9	499.5	518.9	539.4
155°	413.0	413.0	418.7	428.2	437.7	450.9	467.0	482.2	497.3	513.5	530.5
157.5°	425.6	425.3	429.9	438.1	446.4	456.4	470.3	483.1	494.9	507.8	522.2
160°	433.9	432.9	436.8	443.4	450.9	459.4	471.8	483.1	492.6	504.0	515.4
162.5°	440.7	439.8	443.5	449.4	455.5	462.5	473.3	482.4	490.3	499.5	509.3
165°	450.9	449.1	451.9	456.6	460.4	466.1	473.7	481.3	486.9	492.6	500.2
167.5°	457.8	456.8	458.5	461.1	463.8	467.4	473.7	479.0	481.6	486.0	491.3
170°	462.3	461.4	462.3	464.2	466.1	469.0	473.7	477.4	479.4	482.2	486.0
172.5°	465.4	463.7	464.6	466.4	467.6	469.0	472.9	476.0	476.3	477.7	480.7
175°	469.0	467.0	468.0	469.0	469.0	469.0	471.8	473.7	472.7	472.7	473.7
177.5°	470.7	469.1	469.1	469.9	469.1	469.1	470.7	471.4	469.9	469.9	470.7
180°	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9



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CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1293.6	1295.2	1296.8	1297.5	1297.2	1297.1	1296.8	1296.6
5°	1289.6	1291.9	1294.2	1295.2	1294.9	1294.6	1294.3	1294.0
7.5°	1278.9	1280.9	1282.9	1283.7	1283.4	1283.1	1282.9	1282.5
10°	1268.8	1270.7	1272.7	1273.6	1273.3	1273.0	1272.7	1272.4
12.5°	1256.6	1258.2	1259.7	1260.1	1259.4	1258.7	1257.9	1257.2
15°	1233.9	1235.6	1237.2	1237.5	1236.4	1235.3	1234.1	1233.0
17.5°	1204.8	1206.2	1207.5	1207.8	1207.1	1206.4	1205.7	1205.0
20°	1182.6	1183.4	1184.3	1184.7	1184.7	1184.7	1184.7	1184.7
22.5°	1159.7	1160.7	1161.8	1162.0	1161.3	1160.7	1159.9	1159.3
25°	1123.4	1124.5	1125.7	1125.5	1124.1	1122.7	1121.3	1119.9
27.5°	1081.3	1082.1	1082.9	1083.0	1082.5	1082.0	1081.5	1081.0
30°	1052.4	1053.0	1053.5	1053.6	1053.4	1053.0	1052.8	1052.5
32.5°	1024.9	1025.5	1026.1	1026.2	1025.9	1025.6	1025.3	1025.1
35°	980.5	981.3	982.2	982.6	982.6	982.6	982.6	982.6
37.5°	933.8	934.9	936.0	936.5	936.4	936.3	936.2	936.0
40°	902.2	903.4	904.5	905.3	905.9	906.4	907.0	907.6
42.5°	873.2	874.6	875.9	876.6	876.8	876.9	877.0	877.1
45°	826.4	828.3	830.3	831.4	831.8	832.0	832.3	832.6
47.5°	778.1	781.0	783.9	785.6	786.3	786.8	787.5	788.1
50°	746.0	749.1	752.3	754.2	755.0	755.9	756.8	757.6
52.5°	714.0	717.3	720.6	722.6	723.2	723.8	724.5	725.0
55°	663.4	666.5	669.6	671.7	672.9	674.0	675.1	676.3
57.5°	613.4	617.0	620.6	622.8	623.6	624.4	625.3	626.1
60°	579.2	583.4	587.7	590.2	591.1	591.9	592.8	593.6
62.5°	544.5	549.2	553.9	556.8	557.8	559.0	560.0	561.1
65°	492.8	497.0	501.2	503.9	505.1	506.2	507.4	508.4
67.5°	439.7	444.8	450.0	453.2	454.7	456.2	457.7	459.2
70°	403.5	408.9	414.3	417.8	419.5	421.2	422.9	424.5
72.5°	369.8	375.7	381.5	385.0	386.3	387.5	388.7	390.0
75°	318.9	324.6	330.2	333.8	335.2	336.6	338.0	339.4
77.5°	267.9	274.1	280.4	284.1	285.2	286.3	287.4	288.5
80°	237.4	243.6	249.9	253.6	254.6	255.8	256.9	258.0
82.5°	208.5	214.5	220.5	224.5	226.5	228.5	230.6	232.6
85°	168.8	175.0	181.2	185.5	187.7	190.0	192.2	194.4
87.5°	140.0	146.7	153.4	157.9	160.0	161.9	164.0	166.1
90°	134.3	141.7	149.2	155.3	157.3	159.2	162.2	164.1
92.5°	280.5	240.8	217.0	207.1	196.9	196.7	197.3	197.7
95°	786.4	648.6	538.3	462.8	397.5	371.0	365.5	352.3
97.5°	1112.7	1017.7	910.1	803.4	746.7	695.6	670.1	659.9
100°	1258.4	1218.0	1126.3	1031.6	967.9	901.4	868.0	854.6
102.5°	1304.7	1339.0	1298.0	1234.9	1166.7	1119.9	1083.5	1073.8
105°	1267.3	1402.7	1450.1	1443.4	1415.1	1385.8	1368.9	1359.4
107.5°	1154.2	1333.0	1445.6	1498.8	1515.8	1517.4	1512.9	1507.1
110°	1070.9	1256.2	1395.1	1479.4	1524.0	1543.9	1552.6	1554.5



TEST NUMBER: P333336-930

CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1004.2	1180.2	1320.5	1418.9	1483.3	1516.1	1534.6	1543.4
115°	919.9	1071.9	1206.7	1313.4	1388.9	1436.1	1464.4	1478.4
117.5°	862.8	994.3	1110.8	1208.9	1284.7	1333.7	1361.9	1371.4
120°	831.5	950.0	1059.0	1145.7	1217.4	1264.6	1291.8	1301.1
122.5°	806.5	916.5	1013.9	1095.0	1159.3	1202.6	1230.0	1238.4
125°	770.5	871.7	958.6	1029.8	1084.3	1124.5	1146.8	1157.7
127.5°	733.8	828.1	909.2	976.0	1025.7	1061.7	1083.0	1088.8
130°	711.3	798.6	876.4	940.7	989.5	1022.1	1042.5	1049.6
132.5°	688.3	770.3	841.3	903.2	951.7	984.1	1002.8	1010.4
135°	657.0	726.0	790.4	846.9	890.0	922.6	941.1	948.2
137.5°	630.9	687.1	740.8	788.9	827.4	856.9	873.8	881.1
140°	616.0	663.7	710.3	752.2	788.4	814.2	829.5	835.4
142.5°	603.2	643.6	683.7	720.2	751.0	773.0	787.6	792.6
145°	587.3	618.1	648.9	675.7	699.6	716.8	728.4	733.3
147.5°	573.3	597.6	620.6	640.4	658.9	672.3	678.9	681.1
150°	565.6	586.4	604.4	621.6	636.1	647.8	651.8	653.1
152.5°	558.0	576.6	593.0	606.3	618.3	627.5	631.3	632.3
155°	546.6	561.7	575.0	585.5	594.9	601.5	604.4	605.4
157.5°	535.2	547.7	558.0	566.1	573.5	579.0	581.6	581.5
160°	527.7	537.1	546.6	553.3	559.9	564.6	566.6	565.6
162.5°	519.3	528.1	536.0	541.8	547.0	551.0	551.4	551.1
165°	507.8	514.4	520.1	524.8	528.6	530.5	530.5	530.5
167.5°	496.8	501.2	505.5	508.9	510.8	512.5	511.8	511.6
170°	490.7	493.6	496.4	498.3	500.2	501.2	501.2	500.2
172.5°	483.9	486.7	488.9	490.0	490.3	492.0	490.6	489.6
175°	476.5	476.5	478.4	478.4	478.4	479.4	477.4	476.5
177.5°	471.4	472.1	472.1	472.1	471.4	472.1	469.9	469.9
180°	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9

(END OF REPORT)