

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: P333316-935

Luminaire Tested: **S125DIP-S1270D810U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333316-935
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-S1270D810U935-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7032.2 lumens
Efficiency: N/A
Efficacy: 115.9 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

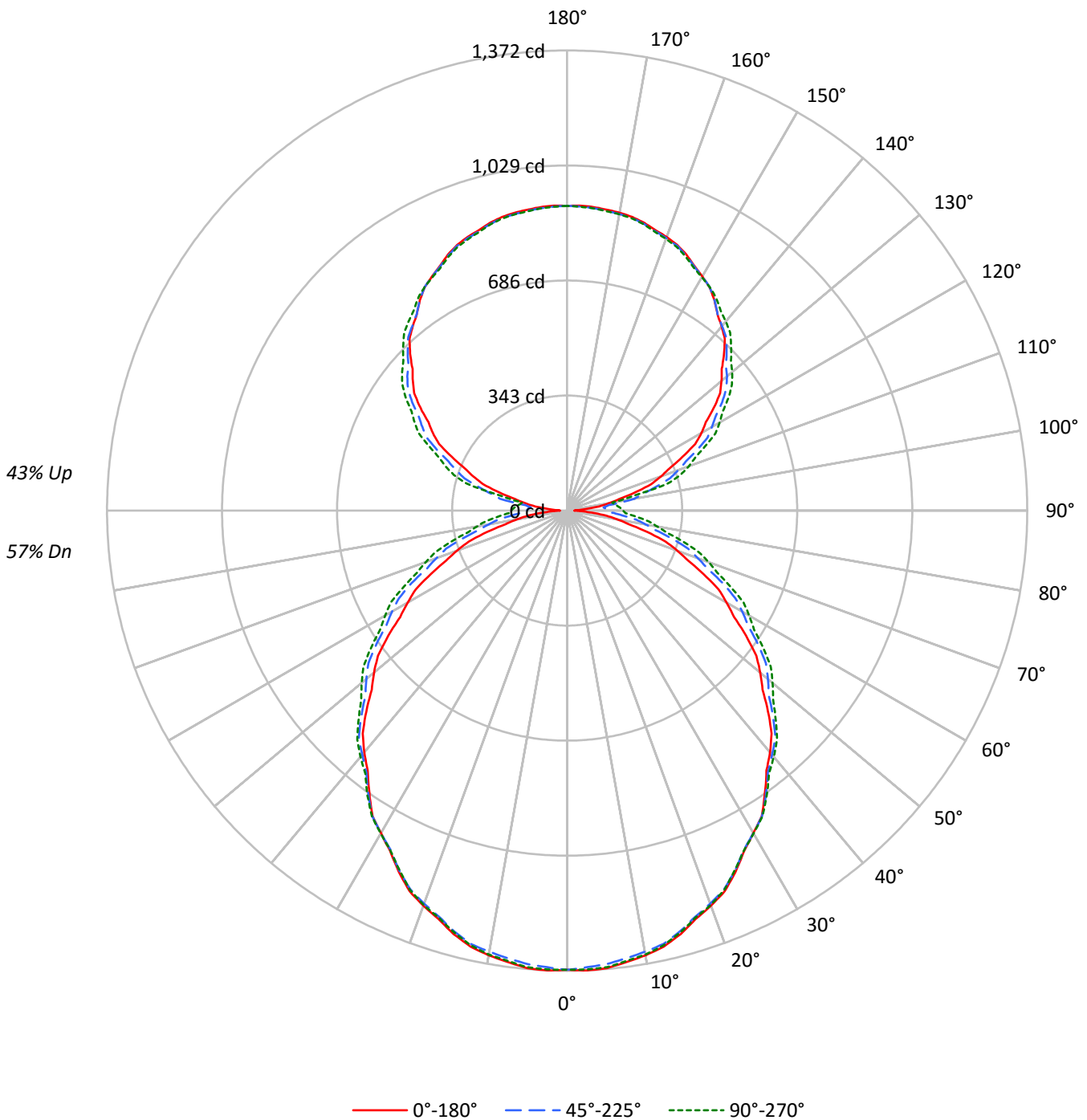
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333316-935

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57																			
1	98	94	89	86	91	87	84	80	75	72	70	64	62	60	54	52	51	46																			
2	89	81	75	69	83	76	70	65	65	61	57	56	52	49	47	44	42	38																			
3	81	71	63	57	75	66	60	54	57	52	48	49	45	42	41	38	36	32																			
4	74	63	55	48	69	59	51	46	51	45	40	43	39	35	37	33	30	27																			
5	68	56	48	41	63	52	45	39	45	39	35	39	34	31	33	29	26	23																			
6	63	50	42	36	58	47	39	34	41	35	30	35	30	27	30	26	23	20																			
7	58	45	37	31	54	42	35	30	37	31	27	32	27	24	27	23	21	18																			
8	54	41	33	28	50	39	31	26	34	28	24	29	24	21	25	21	18	16																			
9	50	38	30	25	47	35	28	23	31	25	21	27	22	19	23	19	17	14																			
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	21	18	15	13																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8843	8843	8843
5°	8860	8680	8707
10°	8797	8525	8512
15°	8694	8339	8263
20°	8552	8110	8015
25°	8384	7865	7709
30°	8181	7595	7431
35°	7991	7346	7176
40°	7797	7085	6920
45°	7579	6861	6693
50°	7370	6618	6491
55°	7119	6390	6255
60°	6846	6128	6014
65°	6558	5855	5742
70°	6233	5481	5463
75°	5719	5122	5121
80°	5046	4687	4749
85°	4423	4393	4630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.8
10°-20°	367.5	5.2
20°-30°	546.6	7.8
30°-40°	647.5	9.2
40°-50°	669.4	9.5
50°-60°	616.7	8.8
60°-70°	498.5	7.1
70°-80°	333.8	4.7
80°-90°	175.0	2.5
90°-100°	130.1	1.9
100°-110°	275.1	3.9
110°-120°	417.0	5.9
120°-130°	500.8	7.1
130°-140°	521.2	7.4
140°-150°	480.5	6.8
150°-160°	386.7	5.5
160°-170°	250.1	3.6
170°-180°	86.3	1.2
0°-30°	1043.6	14.8
0°-40°	1691.1	24.0
0°-60°	2977.2	42.3
0°-90°	3984.5	56.7
90°-120°	822.2	11.7
90°-150°	2324.6	33.1
90°-180°	3048.0	43.3
0°-180°	7032.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1367	130
15°	1308	1308	1299	1307	1302	368
25°	1188	1191	1184	1189	1183	547
35°	1028	1037	1034	1037	1038	643
45°	847	861	868	877	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	351	358	262
85°	74	118	165	194	205	79
90°	22	71	121	154	166	16
95°	56	88	109	140	151	63
105°	210	235	274	300	310	223
115°	380	394	428	449	454	376
125°	534	539	564	582	588	477
135°	662	665	673	688	691	510
145°	766	766	766	773	774	478
155°	842	838	839	841	836	388
165°	888	884	885	888	883	251
175°	908	905	905	910	904	86
180°	908	908	908	908	908	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1372.4	1372.0	1371.5	1371.1	1370.5	1369.5	1367.8	1366.1	1364.5	1362.8	1364.5
5°	1369.2	1368.6	1368.0	1367.4	1366.8	1365.5	1363.4	1361.3	1359.3	1357.2	1359.5
7.5°	1357.2	1356.9	1356.7	1356.4	1356.2	1355.0	1352.9	1350.7	1348.6	1346.4	1348.5
10°	1346.4	1346.4	1346.4	1346.4	1346.4	1345.2	1342.8	1340.5	1338.1	1335.7	1337.7
12.5°	1331.4	1331.6	1331.9	1332.1	1332.3	1331.5	1329.6	1327.7	1325.8	1323.9	1325.5
15°	1307.5	1307.8	1308.1	1308.4	1308.7	1307.8	1305.7	1303.6	1301.6	1299.4	1301.2
17.5°	1276.3	1276.9	1277.6	1278.2	1278.8	1278.0	1275.9	1273.8	1271.7	1269.6	1271.0
20°	1253.8	1254.4	1255.0	1255.6	1256.2	1255.4	1253.4	1251.3	1249.1	1247.1	1248.0
22.5°	1228.0	1229.1	1230.2	1231.2	1232.3	1231.7	1229.3	1227.0	1224.7	1222.4	1223.5
25°	1188.0	1189.0	1189.8	1190.7	1191.6	1191.2	1189.4	1187.6	1185.8	1184.0	1185.2
27.5°	1143.5	1144.8	1146.1	1147.4	1148.7	1148.3	1146.3	1144.3	1142.3	1140.2	1141.1
30°	1110.2	1112.0	1113.7	1115.5	1117.3	1117.3	1115.5	1113.7	1112.0	1110.2	1110.8
32.5°	1080.1	1081.7	1083.2	1084.8	1086.3	1086.4	1085.1	1083.8	1082.4	1081.2	1081.8
35°	1028.3	1030.4	1032.4	1034.6	1036.6	1037.2	1036.3	1035.4	1034.6	1033.6	1034.6
37.5°	976.5	978.4	980.2	982.2	984.1	984.9	984.6	984.3	984.0	983.7	984.9
40°	941.0	943.4	945.8	948.2	950.5	951.6	951.3	951.0	950.7	950.5	951.6
42.5°	902.3	905.4	908.5	911.6	914.8	916.6	917.3	918.0	918.6	919.3	920.7
45°	847.1	850.3	853.6	856.9	860.1	862.5	864.1	865.6	867.0	868.5	870.6
47.5°	790.4	793.4	796.5	799.5	802.5	805.4	808.0	810.5	813.0	815.6	818.7
50°	751.7	755.0	758.3	761.6	764.9	768.2	771.5	774.7	778.0	781.3	784.5
52.5°	710.9	715.0	718.9	722.9	726.9	730.9	734.9	738.9	742.9	746.9	750.4
55°	651.1	655.8	660.6	665.4	670.1	674.9	679.7	684.5	689.2	694.1	697.3
57.5°	589.9	595.6	601.3	607.0	612.8	618.4	623.9	629.3	634.8	640.3	644.1
60°	549.1	555.0	560.9	567.0	572.9	578.9	584.9	590.8	596.8	602.7	607.2
62.5°	509.3	515.3	521.2	527.2	533.1	539.4	545.8	552.2	558.7	565.2	570.1
65°	448.3	455.2	462.1	469.0	475.8	482.8	490.0	497.1	504.3	511.4	515.9
67.5°	390.9	397.5	404.2	410.8	417.4	424.4	431.6	438.9	446.2	453.5	458.9
70°	349.0	355.9	362.7	369.6	376.4	383.7	391.5	399.3	407.1	414.8	420.5
72.5°	308.2	315.3	322.4	329.5	336.7	344.4	352.8	361.4	369.8	378.3	384.4
75°	247.0	254.8	262.5	270.3	278.0	286.7	296.2	305.7	315.3	324.9	330.8
77.5°	188.2	197.2	206.1	215.1	224.0	233.1	242.3	251.4	260.6	269.8	276.4
80°	151.7	160.7	169.6	178.6	187.5	197.0	207.2	217.3	227.5	237.6	244.2
82.5°	118.4	127.9	137.2	146.7	156.1	166.0	176.4	186.8	197.2	207.5	213.9
85°	73.9	83.7	93.5	103.4	113.2	123.4	133.8	144.2	154.6	165.1	171.7
87.5°	42.0	51.8	61.6	71.4	81.2	91.3	101.6	111.9	122.3	132.6	139.7
90°	22.1	32.9	43.7	54.4	65.1	76.1	87.3	98.5	109.7	120.9	128.5
92.5°	29.7	37.7	45.7	53.6	61.6	71.3	82.7	93.9	105.2	116.6	123.9
95°	55.8	63.1	70.4	77.7	85.1	90.9	95.4	99.9	104.4	108.7	116.1
97.5°	96.0	103.8	111.6	119.3	127.1	130.3	128.8	127.3	125.9	124.4	126.5
100°	127.3	133.9	140.6	147.3	154.0	162.5	172.6	182.8	193.0	203.1	187.0
102.5°	159.0	165.4	171.7	178.1	184.4	192.4	202.1	211.8	221.4	231.1	232.9
105°	210.1	215.4	220.8	226.2	231.5	238.7	247.6	256.6	265.5	274.5	280.4
107.5°	263.1	267.2	271.2	275.3	279.3	285.9	294.7	303.6	312.5	321.4	327.3
110°	297.6	301.2	304.7	308.3	311.9	318.1	326.7	335.4	344.0	352.7	357.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	331.0	334.2	337.4	340.6	343.9	349.7	357.9	366.2	374.5	382.8	387.7
115°	379.7	382.5	385.4	388.2	391.1	396.5	404.3	412.2	420.2	428.1	432.8
117.5°	430.2	431.6	432.9	434.3	435.6	440.2	448.2	456.1	464.0	471.8	476.1
120°	462.5	463.3	464.1	464.8	465.5	469.6	476.9	484.2	491.5	498.8	503.6
122.5°	490.1	491.0	492.0	493.0	494.0	497.9	504.7	511.5	518.4	525.2	529.8
125°	533.9	534.7	535.5	536.2	536.9	540.3	546.3	552.2	558.2	564.1	568.3
127.5°	574.7	575.2	575.7	576.1	576.5	579.2	584.0	588.8	593.6	598.4	602.4
130°	600.6	601.1	601.5	601.9	602.4	604.8	609.2	613.5	617.8	622.1	625.9
132.5°	625.4	626.2	627.0	627.8	628.6	630.5	633.4	636.3	639.1	642.0	646.1
135°	661.9	662.5	663.1	663.7	664.3	665.5	667.3	669.1	670.8	672.6	676.2
137.5°	695.4	695.9	696.5	697.1	697.6	698.2	699.0	699.7	700.4	701.2	704.8
140°	716.4	716.7	717.0	717.3	717.6	717.8	718.0	718.2	718.3	718.4	722.0
142.5°	736.3	736.3	736.2	736.2	736.2	736.2	736.5	736.8	737.0	737.3	740.2
145°	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	767.2
147.5°	789.8	789.8	789.7	789.6	789.6	789.6	789.8	790.0	790.2	790.4	791.0
150°	806.0	805.7	805.4	805.1	804.8	804.8	805.1	805.4	805.7	806.0	806.3
152.5°	821.7	821.0	820.3	819.7	819.0	818.8	819.1	819.4	819.7	820.0	820.3
155°	841.7	840.8	839.9	839.0	838.1	837.8	838.1	838.4	838.7	839.0	839.4
157.5°	857.1	856.6	856.1	855.6	855.0	854.7	854.8	854.8	854.8	854.9	855.3
160°	868.0	867.0	866.2	865.2	864.4	864.0	864.1	864.3	864.4	864.5	865.1
162.5°	876.6	875.6	874.8	873.8	873.0	872.6	872.7	872.9	873.1	873.2	874.0
165°	888.1	887.3	886.3	885.5	884.5	884.2	884.3	884.5	884.6	884.8	885.7
167.5°	896.7	895.9	894.9	894.0	893.0	892.7	892.8	892.9	893.1	893.3	894.3
170°	901.6	900.5	899.5	898.5	897.4	897.0	897.1	897.2	897.4	897.6	898.8
172.5°	904.8	903.8	902.8	901.7	900.6	900.3	900.5	900.8	901.0	901.3	902.4
175°	908.4	907.4	906.5	905.7	904.7	904.4	904.5	904.7	904.8	905.0	906.2
177.5°	910.0	909.2	908.5	907.8	907.1	906.8	906.9	907.0	907.1	907.2	908.1
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1366.1	1367.8	1369.5	1370.2	1369.9	1369.8	1369.5	1369.2
5°	1361.9	1364.3	1366.8	1367.8	1367.4	1367.2	1366.8	1366.6
7.5°	1350.6	1352.7	1354.8	1355.6	1355.4	1355.0	1354.8	1354.4
10°	1339.9	1342.0	1344.0	1345.0	1344.6	1344.4	1344.0	1343.8
12.5°	1327.1	1328.7	1330.3	1330.8	1330.0	1329.2	1328.4	1327.7
15°	1303.0	1304.8	1306.6	1306.9	1305.7	1304.5	1303.3	1302.1
17.5°	1272.4	1273.8	1275.1	1275.5	1274.7	1274.0	1273.3	1272.6
20°	1248.9	1249.7	1250.7	1251.1	1251.1	1251.1	1251.1	1251.1
22.5°	1224.7	1225.8	1226.9	1227.1	1226.4	1225.7	1224.9	1224.3
25°	1186.4	1187.6	1188.8	1188.6	1187.1	1185.6	1184.1	1182.7
27.5°	1141.9	1142.7	1143.6	1143.8	1143.1	1142.6	1142.1	1141.6
30°	1111.4	1112.0	1112.6	1112.7	1112.4	1112.1	1111.8	1111.5
32.5°	1082.4	1083.0	1083.6	1083.7	1083.4	1083.1	1082.8	1082.5
35°	1035.4	1036.3	1037.2	1037.7	1037.7	1037.7	1037.7	1037.7
37.5°	986.1	987.3	988.5	989.0	988.9	988.8	988.7	988.5
40°	952.8	954.0	955.2	956.1	956.7	957.3	957.9	958.5
42.5°	922.1	923.6	925.0	925.7	925.9	926.0	926.2	926.3
45°	872.7	874.8	876.8	878.0	878.4	878.7	879.0	879.3
47.5°	821.7	824.8	827.9	829.7	830.3	831.0	831.6	832.3
50°	787.8	791.1	794.4	796.5	797.4	798.3	799.2	800.0
52.5°	754.0	757.5	761.0	763.1	763.7	764.4	765.1	765.7
55°	700.6	703.9	707.1	709.4	710.6	711.8	713.0	714.2
57.5°	647.8	651.6	655.4	657.7	658.6	659.4	660.4	661.2
60°	611.7	616.1	620.6	623.3	624.2	625.1	626.0	626.9
62.5°	575.1	580.0	585.0	588.0	589.1	590.3	591.4	592.5
65°	520.4	524.9	529.3	532.2	533.4	534.6	535.8	536.9
67.5°	464.3	469.8	475.2	478.6	480.2	481.7	483.4	484.9
70°	426.1	431.8	437.5	441.2	443.0	444.8	446.6	448.3
72.5°	390.5	396.7	402.9	406.6	407.9	409.2	410.5	411.8
75°	336.8	342.8	348.7	352.5	354.0	355.4	357.0	358.4
77.5°	282.9	289.5	296.1	300.0	301.2	302.3	303.5	304.7
80°	250.7	257.3	263.9	267.8	268.9	270.1	271.3	272.5
82.5°	220.2	226.5	232.8	237.0	239.2	241.3	243.5	245.6
85°	178.2	184.8	191.4	195.9	198.2	200.6	203.0	205.3
87.5°	146.6	153.7	160.7	165.3	167.5	169.6	171.8	174.0
90°	136.0	143.7	151.3	156.4	158.9	161.4	163.9	166.5
92.5°	131.3	138.7	146.0	150.8	153.2	155.5	157.7	160.1
95°	123.4	130.7	138.0	142.8	144.8	146.9	149.0	151.1
97.5°	128.5	130.5	132.6	134.7	136.6	138.7	140.7	142.8
100°	171.0	155.0	139.0	131.6	132.8	133.9	135.1	136.3
102.5°	234.7	236.5	238.3	235.1	226.6	218.3	209.9	201.5
105°	286.5	292.4	298.3	302.3	304.3	306.2	308.2	310.0
107.5°	333.2	339.1	345.1	348.8	350.2	351.5	353.0	354.4
110°	363.1	368.2	373.5	377.2	379.4	381.7	383.9	386.2



TEST NUMBER: P333316-935

CATALOG NUMBER: S125DIP-S1270D810U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	392.5	397.4	402.3	405.6	407.5	409.4	411.3	413.1
115°	437.6	442.4	447.2	450.0	450.9	451.8	452.6	453.6
117.5°	480.4	484.7	489.0	492.0	493.6	495.2	496.9	498.6
120°	508.3	513.2	517.9	520.8	521.9	522.9	523.9	525.0
122.5°	534.3	538.8	543.4	546.0	547.0	547.9	548.9	549.7
125°	572.5	576.7	580.8	583.5	584.5	585.6	586.6	587.6
127.5°	606.6	610.6	614.8	617.1	617.7	618.4	619.0	619.6
130°	629.6	633.3	637.0	639.2	640.0	640.8	641.4	642.2
132.5°	650.2	654.3	658.4	660.6	661.2	661.7	662.2	662.7
135°	679.8	683.4	686.9	689.1	689.7	690.3	690.8	691.4
137.5°	708.3	712.0	715.5	717.6	717.9	718.3	718.8	719.2
140°	725.6	729.2	732.8	734.7	735.0	735.3	735.6	735.9
142.5°	743.0	745.9	748.7	750.4	750.6	751.0	751.2	751.6
145°	768.9	770.5	772.1	773.1	773.4	773.7	774.0	774.3
147.5°	791.7	792.4	793.0	793.1	792.6	791.9	791.4	790.9
150°	806.6	806.9	807.2	806.9	806.0	805.1	804.2	803.3
152.5°	820.6	820.9	821.2	820.8	819.8	818.8	817.8	816.7
155°	839.9	840.3	840.8	840.4	839.2	838.0	836.8	835.6
157.5°	855.8	856.4	856.8	856.4	855.2	854.0	852.8	851.6
160°	865.7	866.3	866.9	866.7	865.5	864.3	863.1	861.9
162.5°	874.9	875.7	876.5	876.3	874.9	873.7	872.4	871.1
165°	886.6	887.4	888.4	888.2	887.0	885.8	884.6	883.4
167.5°	895.4	896.5	897.6	897.4	896.0	894.8	893.4	892.1
170°	899.9	901.1	902.3	902.2	901.0	899.6	898.2	896.9
172.5°	903.4	904.6	905.7	905.5	904.1	902.8	901.5	900.1
175°	907.3	908.5	909.7	909.6	908.4	907.0	905.7	904.3
177.5°	909.0	909.7	910.6	910.6	909.6	908.6	907.7	906.7
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4

(END OF REPORT)