

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: P333300-935

Luminaire Tested: **S125DIP-S1270D365U935-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333300-935
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-S1270D365U935-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5373.7 lumens
Efficiency: N/A
Efficacy: 107.9 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: Semi-Direct

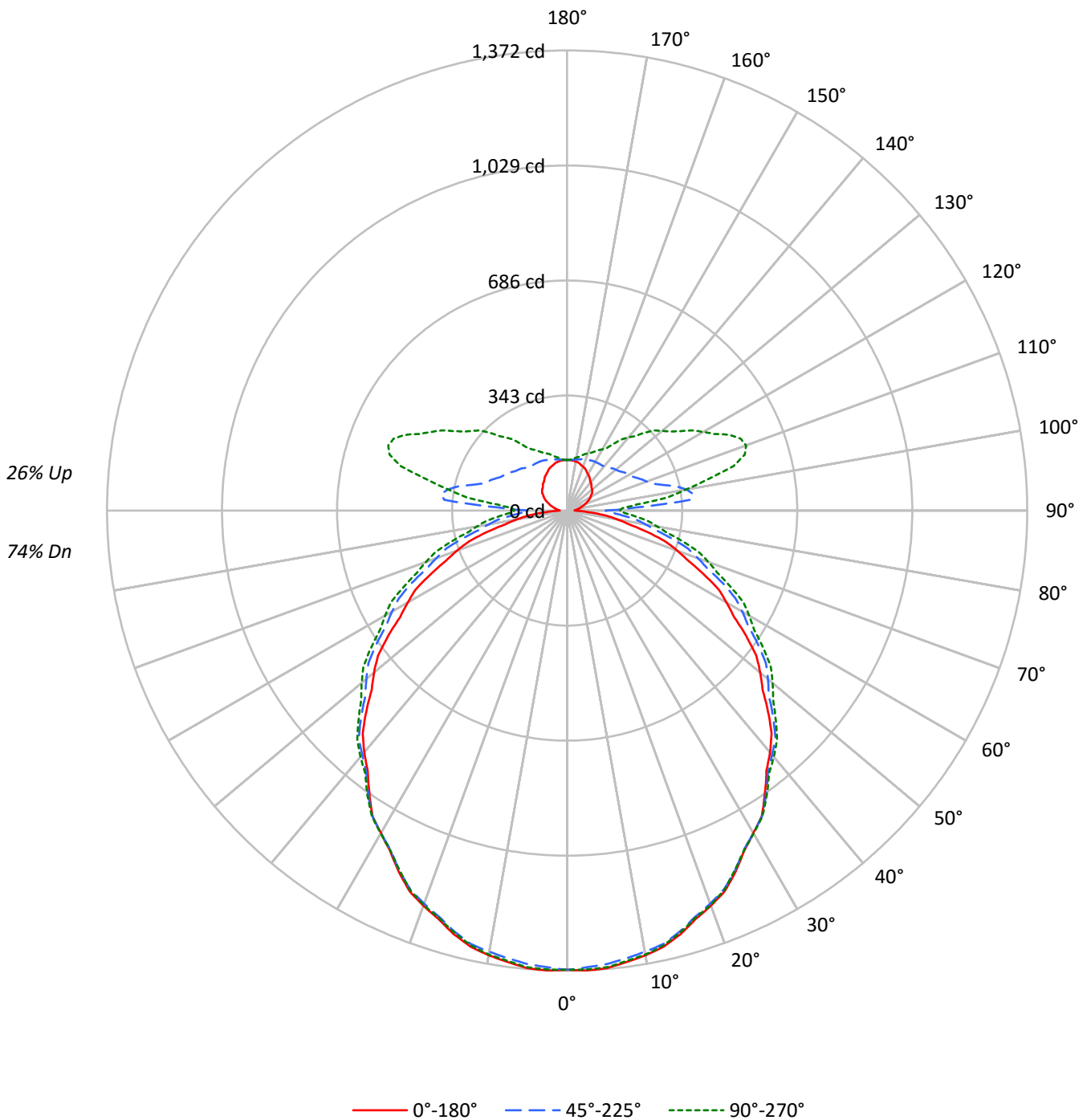
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	102	97	93	89	97	92	88	85	83	80	77	75	73	70	67	66	64	60
2	93	84	77	72	88	80	74	69	72	68	63	65	61	58	59	56	53	50
3	84	74	66	59	80	70	63	57	64	58	53	57	53	49	52	48	45	41
4	77	65	57	50	73	62	54	48	56	50	45	51	46	41	46	42	38	35
5	71	58	49	43	67	55	47	41	50	44	39	46	40	36	41	37	33	30
6	65	52	43	37	62	50	42	36	45	39	34	41	36	31	38	33	29	27
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	29	26	23
8	56	43	35	29	53	41	33	28	38	31	26	34	29	25	31	27	23	21
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21	19
10	49	36	28	23	46	35	28	23	32	26	21	29	24	20	27	22	19	17

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	2.4
10°-20°	367.5	6.8
20°-30°	546.6	10.2
30°-40°	647.5	12.0
40°-50°	669.4	12.5
50°-60°	616.7	11.5
60°-70°	498.5	9.3
70°-80°	333.8	6.2
80°-90°	174.0	3.2
90°-100°	206.5	3.8
100°-110°	306.8	5.7
110°-120°	268.7	5.0
120°-130°	206.1	3.8
130°-140°	155.5	2.9
140°-150°	110.7	2.1
150°-160°	76.3	1.4
160°-170°	44.9	0.8
170°-180°	14.6	0.3
0°-30°	1043.6	19.4
0°-40°	1691.1	31.5
0°-60°	2977.2	55.4
0°-90°	3983.5	74.1
90°-120°	782.1	14.6
90°-150°	1254.4	23.3
90°-180°	1390.0	25.9
0°-180°	5373.7	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	67	115	146	157	15
95°	28	83	368	249	208	24
105°	46	83	294	534	513	49
115°	70	93	230	457	534	68
125°	91	105	201	355	413	80
135°	102	122	179	282	329	80
145°	118	133	169	217	244	73
155°	133	143	165	186	194	61
165°	145	149	158	168	170	41
175°	151	151	152	154	153	14
180°	151	151	151	151	151	



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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°	41.9	51.6	61.2	70.9	80.6	90.5	100.7	111.0	121.2	131.5	138.4
90°	21.8	31.6	41.8	51.9	62.1	72.6	83.0	93.8	104.2	114.9	122.1
92.5°	23.1	32.6	44.1	56.7	70.7	89.2	116.2	154.5	195.1	203.9	191.8
95°	27.5	35.6	45.7	56.8	71.3	93.9	136.6	213.7	307.9	367.6	368.3
97.5°	32.5	39.9	48.6	58.9	71.9	90.1	121.5	180.3	277.9	379.2	431.4
100°	36.1	43.0	50.5	60.0	72.1	89.1	116.3	165.4	251.7	360.7	443.0
102.5°	40.1	46.2	53.0	62.4	73.4	89.9	114.9	157.5	231.5	333.3	428.3
105°	46.5	51.2	57.5	65.3	75.0	90.4	112.7	148.8	208.5	294.5	387.7
107.5°	52.6	57.3	62.9	69.4	78.5	92.5	114.0	145.9	195.9	266.7	347.8
110°	57.2	61.4	66.1	72.5	80.6	94.5	115.3	144.6	189.9	252.4	324.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	62.8	66.2	70.1	75.7	83.1	96.3	116.4	144.3	185.8	242.2	305.7
115°	69.5	72.2	75.3	80.1	86.7	99.2	118.2	143.6	180.6	229.5	283.8
117.5°	75.5	77.7	80.1	84.2	90.7	102.5	120.5	143.9	176.6	219.9	267.9
120°	80.3	82.1	84.3	87.9	93.9	105.5	123.0	144.5	174.7	214.1	258.5
122.5°	84.4	85.5	86.9	90.1	96.1	107.2	124.5	145.0	172.4	208.6	249.5
125°	90.6	90.9	92.1	94.5	100.0	110.8	126.7	145.9	169.4	200.7	237.1
127.5°	94.3	94.9	96.5	99.7	105.6	115.8	130.4	147.3	167.6	193.7	225.1
130°	97.5	98.1	100.2	103.8	109.9	119.8	133.4	149.1	167.0	190.0	218.0
132.5°	98.8	99.9	102.8	107.1	113.7	123.2	135.9	149.9	165.8	185.7	210.8
135°	102.5	103.4	106.8	111.3	117.4	126.6	138.0	150.2	163.5	179.3	200.5
137.5°	107.2	107.9	111.1	115.7	121.7	130.5	140.2	150.8	162.6	174.9	192.3
140°	109.1	109.9	113.7	118.5	124.2	132.7	141.7	151.2	161.3	171.9	187.4
142.5°	112.4	112.9	116.1	120.7	126.0	133.6	142.1	150.8	160.1	170.0	183.5
145°	117.6	117.9	120.6	124.6	129.8	136.6	144.6	152.1	160.3	169.2	179.8
147.5°	121.6	121.9	124.6	128.5	133.3	139.4	146.4	153.3	160.7	168.4	176.9
150°	124.8	125.4	127.5	131.5	135.7	140.9	147.6	153.9	160.7	167.6	175.0
152.5°	128.2	128.5	130.4	133.9	137.9	142.6	148.8	154.5	160.4	166.7	173.2
155°	132.7	132.7	134.5	137.5	140.6	144.8	150.0	154.9	159.7	165.0	170.4
157.5°	136.7	136.6	138.1	140.7	143.4	146.6	151.0	155.2	158.9	163.1	167.7
160°	139.4	139.1	140.3	142.4	144.8	147.6	151.5	155.2	158.3	161.9	165.6
162.5°	141.5	141.3	142.5	144.4	146.3	148.5	152.1	155.0	157.5	160.4	163.6
165°	144.8	144.2	145.2	146.6	147.9	149.7	152.1	154.5	156.4	158.3	160.7
167.5°	147.1	146.7	147.3	148.1	149.0	150.2	152.1	153.9	154.7	156.1	157.8
170°	148.5	148.2	148.5	149.1	149.7	150.6	152.1	153.3	153.9	154.9	156.1
172.5°	149.5	149.0	149.2	149.8	150.2	150.6	151.9	152.9	153.0	153.4	154.4
175°	150.6	150.0	150.3	150.6	150.6	150.6	151.5	152.1	151.9	151.9	152.1
177.5°	151.2	150.7	150.7	150.9	150.7	150.7	151.2	151.4	150.9	150.9	151.2
180°	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9



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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°	145.3	152.2	159.1	163.8	165.8	167.9	170.0	172.1
90°	129.2	136.5	143.6	148.7	150.8	152.8	155.2	157.3
92.5°	173.0	164.8	161.7	161.6	159.8	161.1	162.8	164.4
95°	329.9	290.2	259.3	238.2	218.6	211.5	211.2	208.4
97.5°	429.6	403.5	373.2	341.9	325.1	310.1	303.3	301.4
100°	472.7	464.1	439.0	411.4	392.2	372.0	362.6	359.5
102.5°	484.2	499.5	490.4	472.9	452.3	438.5	428.1	426.2
105°	466.7	514.4	533.7	534.4	526.8	518.8	514.8	513.2
107.5°	425.9	487.4	527.7	547.4	554.2	556.0	555.9	555.3
110°	395.7	459.3	507.8	537.5	553.4	561.2	565.4	567.5



TEST NUMBER: P333300-935

CATALOG NUMBER: S125DIP-S1270D365U935-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	371.0	431.4	480.2	514.4	536.5	548.5	555.9	560.2
115°	339.4	391.9	438.9	475.7	501.3	517.6	528.0	533.7
117.5°	316.2	361.9	402.9	436.9	462.6	479.7	490.3	494.6
120°	303.1	344.7	383.2	413.5	437.7	454.2	464.2	468.4
122.5°	291.8	330.5	365.1	393.5	415.3	430.5	440.5	444.5
125°	275.6	311.4	342.7	367.7	386.2	400.2	408.5	412.9
127.5°	259.0	292.4	321.5	345.1	362.3	375.1	383.1	386.2
130°	249.3	280.2	308.1	330.7	347.4	359.0	366.5	369.8
132.5°	238.8	268.1	293.8	315.6	332.0	343.4	350.2	353.5
135°	223.9	248.7	272.1	292.1	307.0	318.6	325.5	328.8
137.5°	211.6	232.1	251.8	269.0	282.1	292.5	298.7	301.9
140°	204.3	221.9	239.2	254.2	266.7	275.7	281.5	284.2
142.5°	198.0	212.9	227.8	240.9	251.6	259.5	265.0	267.5
145°	190.7	201.6	212.6	222.1	230.7	237.0	241.5	243.9
147.5°	184.8	193.0	200.7	207.4	213.7	218.3	220.8	222.0
150°	181.7	188.4	194.2	199.8	204.7	208.5	210.1	210.7
152.5°	179.3	185.2	190.5	194.8	198.6	201.6	202.9	203.3
155°	175.6	180.5	184.7	188.0	191.1	193.2	194.2	194.4
157.5°	171.9	175.9	179.3	181.8	184.3	186.0	186.8	186.8
160°	169.5	172.5	175.6	177.7	179.9	181.3	181.9	181.7
162.5°	166.8	169.6	172.2	174.1	175.7	176.9	177.1	177.0
165°	163.1	165.2	167.0	168.6	169.8	170.4	170.4	170.4
167.5°	159.5	161.0	162.4	163.5	164.1	164.6	164.4	164.3
170°	157.6	158.5	159.5	160.1	160.7	161.0	161.0	160.7
172.5°	155.4	156.4	157.0	157.4	157.5	158.1	157.6	157.2
175°	153.1	153.1	153.7	153.7	153.7	153.9	153.3	153.1
177.5°	151.4	151.6	151.6	151.6	151.4	151.6	150.9	150.9
180°	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9

(END OF REPORT)