

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: P333327-927

Luminaire Tested: **S125DIP-S1270D1035U927-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333327-927
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-S1270D1035U927-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6845.7 lumens
Efficiency: N/A
Efficacy: 102.5 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

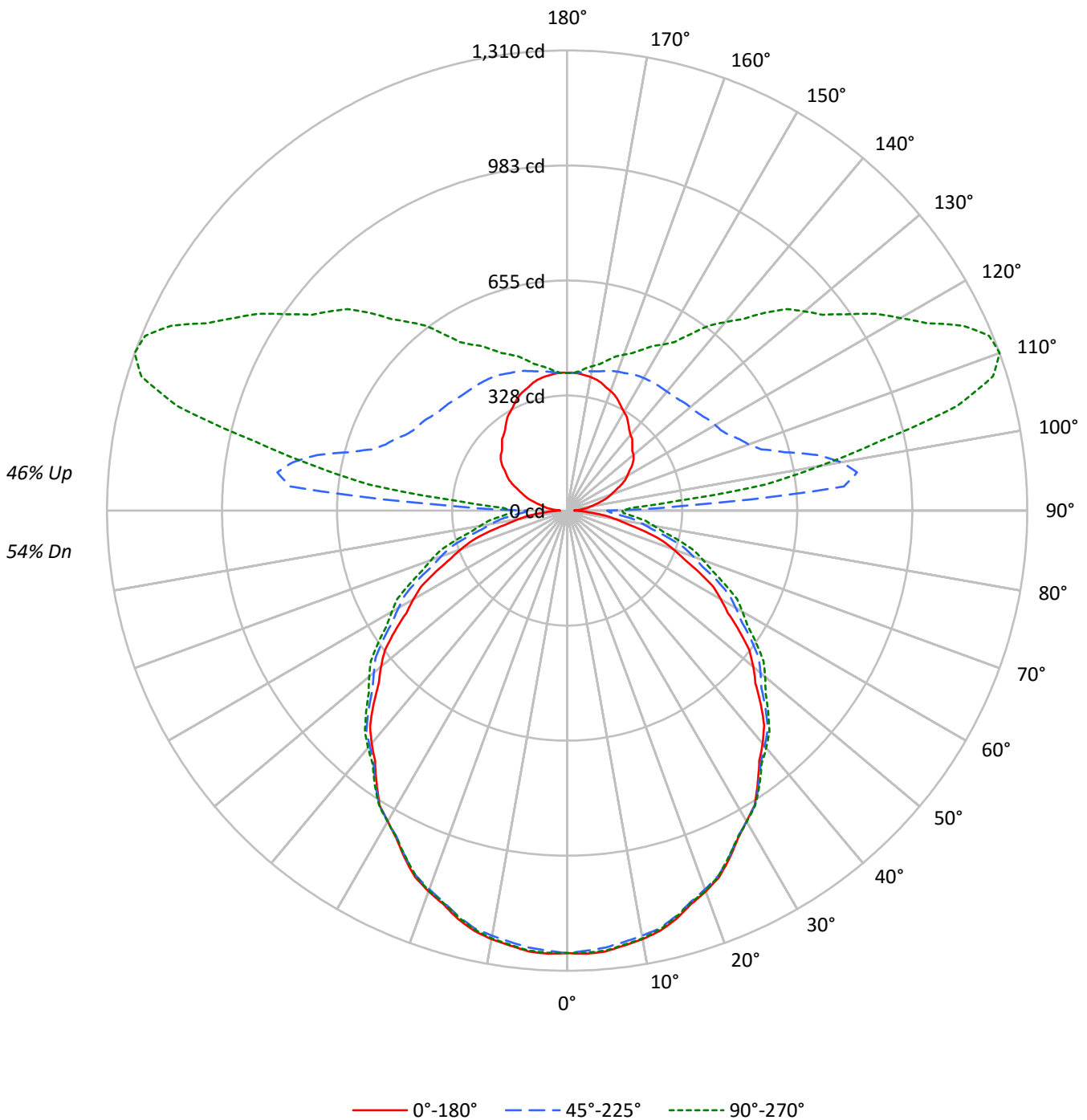
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	98	93	89	85	90	86	83	79	74	71	68	62	60	58	51	50	49	43
2	89	81	74	69	82	75	69	64	64	60	56	54	51	48	45	42	40	36
3	81	71	63	57	74	66	59	54	56	51	47	47	44	40	39	36	34	30
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29	25
5	68	56	47	41	62	52	44	39	44	39	34	38	33	30	31	28	25	22
6	62	50	41	35	57	46	39	33	40	34	30	34	29	26	28	25	22	19
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20	17
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	17	15
9	50	37	30	24	46	35	28	23	30	25	21	26	21	18	22	18	16	14
10	46	34	27	22	43	32	25	21	28	22	19	24	20	16	20	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	1.7
10°-20°	338.2	4.9
20°-30°	502.9	7.3
30°-40°	595.7	8.7
40°-50°	615.9	9.0
50°-60°	567.4	8.3
60°-70°	458.6	6.7
70°-80°	307.2	4.5
80°-90°	161.5	2.4
90°-100°	373.7	5.5
100°-110°	677.1	9.9
110°-120°	617.8	9.0
120°-130°	489.9	7.2
130°-140°	384.0	5.6
140°-150°	283.7	4.1
150°-160°	198.2	2.9
160°-170°	116.8	1.7
170°-180°	38.0	0.6
0°-30°	960.2	14.0
0°-40°	1555.9	22.7
0°-60°	2739.2	40.0
0°-90°	3666.5	53.6
90°-120°	1668.5	24.4
90°-150°	2826.2	41.3
90°-180°	3179.0	46.4
0°-180°	6845.7	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°	20	67	114	145	156	15
95°	42	126	791	434	312	40
105°	100	157	641	1221	1149	106
115°	167	210	508	1062	1245	164
125°	226	265	470	837	974	201
135°	262	314	448	687	796	203
145°	303	346	440	554	614	190
155°	345	371	429	484	505	159
165°	376	387	411	436	443	106
175°	391	391	395	399	398	37
180°	392	392	392	392	392	



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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	47.6	56.7	65.8	74.9	84.3	93.8	103.5	113.0	122.6	129.0
90°	20.5	30.1	40.5	50.9	61.2	71.9	82.0	92.9	103.0	113.9	121.0
92.5°	27.4	37.6	52.4	70.3	92.1	124.0	176.7	258.7	346.8	352.3	309.8
95°	42.1	50.1	63.5	79.4	103.9	147.7	241.7	425.0	652.6	790.8	781.8
97.5°	57.9	65.3	76.1	91.3	113.4	146.6	211.7	348.2	585.5	832.3	957.3
100°	68.9	76.3	85.2	99.7	120.5	151.5	206.1	317.7	525.8	793.1	996.6
102.5°	81.3	87.5	95.4	110.0	129.1	159.1	208.5	303.4	480.3	729.1	965.9
105°	100.4	104.9	113.2	125.5	142.6	171.0	214.0	292.6	432.9	641.3	873.7
107.5°	119.2	124.5	132.1	142.3	159.1	184.9	226.5	294.7	410.3	579.8	781.1
110°	132.8	137.7	144.1	154.6	169.7	195.7	235.8	298.1	401.5	549.9	727.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	147.3	151.5	156.8	166.5	181.0	206.0	244.6	303.5	397.8	530.8	686.7
115°	167.2	170.6	174.9	184.0	197.8	222.0	258.5	311.5	394.5	508.4	640.7
117.5°	184.9	188.5	192.3	200.7	215.4	238.5	273.0	321.5	394.2	494.4	610.6
120°	197.6	200.7	204.7	212.7	227.0	250.3	284.2	328.5	395.8	486.7	593.3
122.5°	209.8	212.0	214.9	222.4	237.5	260.5	294.3	336.4	396.4	479.6	577.8
125°	226.4	227.7	231.3	238.2	252.9	276.2	307.7	347.2	398.5	469.7	556.3
127.5°	238.3	240.3	245.2	253.9	269.6	292.2	321.9	357.7	402.3	462.1	536.1
130°	246.4	248.6	254.6	264.7	281.0	303.3	331.7	365.6	405.0	457.9	523.4
132.5°	251.8	254.8	262.3	273.8	291.0	313.0	340.5	371.6	407.7	453.9	511.8
135°	261.9	264.7	273.9	286.4	302.7	324.9	351.3	379.3	410.5	448.0	496.6
137.5°	274.6	276.7	285.3	297.8	313.9	336.2	359.4	385.4	414.2	444.5	483.8
140°	281.1	283.5	293.0	305.7	320.8	342.2	365.4	389.4	415.0	442.2	476.8
142.5°	290.0	291.5	300.2	312.6	326.8	346.8	368.5	391.0	415.1	440.8	471.3
145°	303.3	304.6	312.3	323.1	337.0	355.1	375.7	395.4	416.8	439.7	464.8
147.5°	316.0	317.0	323.8	334.1	346.3	362.3	380.4	398.2	417.6	437.6	459.0
150°	324.2	325.8	331.4	341.7	352.7	366.1	383.6	400.1	417.6	435.7	454.7
152.5°	333.1	334.1	339.0	347.9	358.4	370.6	386.7	401.4	416.9	433.2	450.3
155°	344.8	344.8	349.5	357.4	365.4	376.4	389.8	402.5	415.2	428.6	442.8
157.5°	355.2	355.1	358.9	365.7	372.6	381.0	392.5	403.3	413.1	423.9	435.9
160°	362.2	361.4	364.6	370.1	376.4	383.6	393.8	403.3	411.2	420.7	430.2
162.5°	367.9	367.1	370.3	375.2	380.2	386.1	395.1	402.7	409.3	416.9	425.2
165°	376.4	374.9	377.2	381.2	384.4	389.1	395.4	401.7	406.5	411.2	417.6
167.5°	382.1	381.4	382.8	385.0	387.2	390.1	395.4	399.8	402.0	405.7	410.1
170°	386.0	385.2	386.0	387.5	389.1	391.4	395.4	398.5	400.1	402.5	405.7
172.5°	388.5	387.1	387.9	389.4	390.3	391.4	394.7	397.3	397.6	398.7	401.2
175°	391.4	389.8	390.6	391.4	391.4	391.4	393.8	395.4	394.6	394.6	395.4
177.5°	392.8	391.6	391.6	392.2	391.6	391.6	392.8	393.5	392.2	392.2	392.8
180°	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2



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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°	135.5	142.0	148.5	152.9	154.8	156.8	158.8	160.7
90°	128.2	135.2	142.4	148.1	150.0	151.9	154.6	156.5
92.5°	249.6	217.3	198.3	190.5	182.4	182.4	183.2	183.9
95°	670.8	556.7	465.4	403.0	348.8	326.9	322.6	311.8
97.5°	942.3	863.8	774.8	686.3	639.2	596.8	575.8	567.5
100°	1063.3	1030.3	954.6	876.1	823.2	767.9	740.2	729.2
102.5°	1101.3	1130.7	1097.2	1045.1	988.4	949.5	919.4	911.6
105°	1069.0	1182.8	1223.1	1218.1	1194.8	1170.6	1156.7	1149.1
107.5°	973.8	1123.8	1218.5	1263.4	1277.9	1279.5	1276.0	1271.3
110°	903.6	1059.1	1175.8	1246.6	1284.0	1301.0	1308.4	1310.4



TEST NUMBER: P333327-927

CATALOG NUMBER: S125DIP-S1270D1035U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	847.3	995.0	1112.7	1195.4	1249.4	1277.1	1292.8	1300.4
115°	776.1	903.6	1016.9	1106.4	1169.7	1209.3	1233.1	1245.1
117.5°	727.5	837.9	935.9	1018.2	1081.7	1122.8	1146.7	1154.9
120°	700.8	800.4	892.1	964.8	1025.0	1064.5	1087.6	1095.5
122.5°	679.4	771.7	853.7	921.9	975.7	1012.2	1035.1	1042.5
125°	648.5	733.6	806.8	866.6	912.2	946.0	964.8	974.1
127.5°	616.9	696.2	764.5	820.6	862.4	892.6	910.6	915.7
130°	597.6	671.1	736.6	790.6	831.5	859.0	876.2	882.3
132.5°	577.8	646.9	706.7	758.7	799.4	826.6	842.3	848.9
135°	550.8	609.0	663.1	710.7	746.9	774.3	789.9	796.1
137.5°	528.3	575.7	621.0	661.5	693.7	718.5	732.8	739.0
140°	515.4	555.6	595.0	630.3	660.6	682.3	695.2	700.3
142.5°	504.3	538.4	572.3	602.9	628.8	647.4	659.7	664.1
145°	490.7	516.6	542.5	565.1	585.1	599.7	609.4	613.7
147.5°	478.7	499.1	518.3	534.9	550.4	561.7	567.2	569.2
150°	472.1	489.5	504.5	518.9	531.1	540.8	544.2	545.3
152.5°	465.8	481.3	495.0	506.1	516.2	523.8	527.0	527.9
155°	456.3	469.0	480.1	488.7	496.6	502.2	504.5	505.3
157.5°	446.8	457.2	465.8	472.6	478.8	483.3	485.5	485.4
160°	440.5	448.4	456.3	461.8	467.4	471.3	472.9	472.1
162.5°	433.6	440.8	447.4	452.3	456.6	459.9	460.3	460.1
165°	423.9	429.4	434.2	438.1	441.2	442.8	442.8	442.8
167.5°	414.7	418.4	422.0	424.8	426.4	427.9	427.2	427.1
170°	409.6	412.0	414.4	416.0	417.6	418.4	418.4	417.6
172.5°	403.9	406.3	408.1	409.0	409.3	410.7	409.5	408.7
175°	397.8	397.8	399.3	399.3	399.3	400.1	398.5	397.8
177.5°	393.5	394.1	394.1	394.1	393.5	394.1	392.2	392.2
180°	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2

(END OF REPORT)