

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: P333300-927

Luminaire Tested: **S125DIP-S1270D365U927-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333300-927
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-S1270D365U927-4F0-1E-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: 4944.2 lumens
Efficiency: N/A
Efficacy: 99.3 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

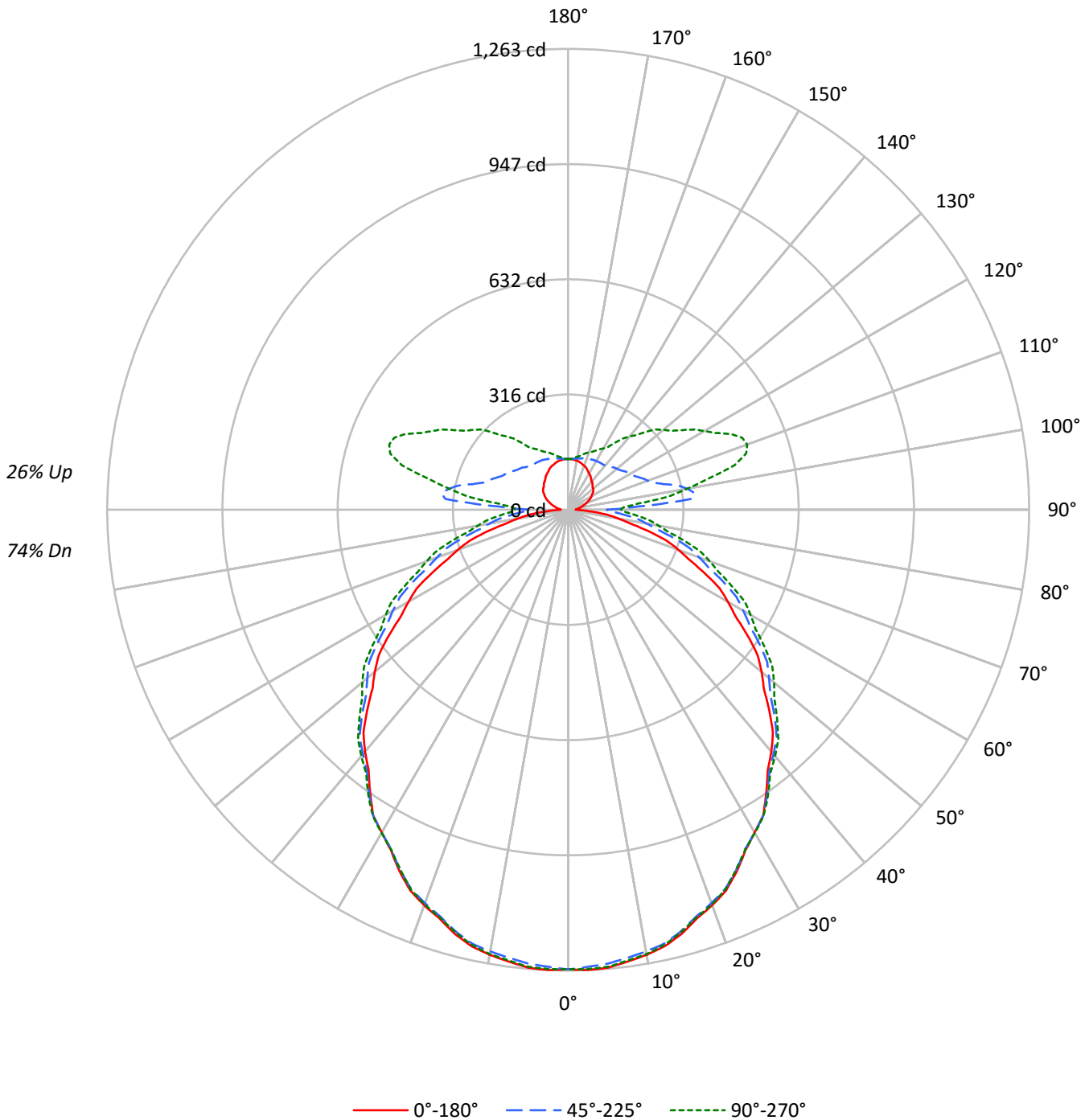
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333300-927

CATALOG NUMBER: S125DIP-S1270D365U927-4F0-1E-UDD-D4

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°	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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CATALOG NUMBER: S125DIP-S1270D365U927-4F0-1E-UDD-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	2.4
10°-20°	338.2	6.8
20°-30°	502.9	10.2
30°-40°	595.7	12.0
40°-50°	615.9	12.5
50°-60°	567.4	11.5
60°-70°	458.6	9.3
70°-80°	307.2	6.2
80°-90°	160.1	3.2
90°-100°	190.0	3.8
100°-110°	282.3	5.7
110°-120°	247.2	5.0
120°-130°	189.6	3.8
130°-140°	143.0	2.9
140°-150°	101.9	2.1
150°-160°	70.2	1.4
160°-170°	41.4	0.8
170°-180°	13.5	0.3
0°-30°	960.2	19.4
0°-40°	1555.9	31.5
0°-60°	2739.2	55.4
0°-90°	3665.1	74.1
90°-120°	719.5	14.6
90°-150°	1154.1	23.3
90°-180°	1279.0	25.9
0°-180°	4944.2	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	62	106	134	145	14
95°	25	76	338	229	192	22
105°	43	76	271	491	472	45
115°	64	86	211	421	491	63
125°	83	97	185	327	380	74
135°	94	112	165	260	302	73
145°	108	123	156	200	224	68
155°	122	131	152	171	179	56
165°	133	137	146	154	157	38
175°	139	139	140	141	141	13
180°	139	139	139	139	139	



TEST NUMBER: P333300-927

CATALOG NUMBER: S125DIP-S1270D365U927-4F0-1E-UDD-D4

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°	38.6	47.5	56.3	65.2	74.1	83.3	92.7	102.1	111.5	121.0	127.3
90°	20.0	29.1	38.4	47.8	57.1	66.8	76.4	86.3	95.9	105.8	112.3
92.5°	21.2	30.0	40.6	52.1	65.0	82.1	106.9	142.1	179.5	187.6	176.5
95°	25.3	32.7	42.1	52.3	65.6	86.4	125.7	196.6	283.3	338.2	338.9
97.5°	29.9	36.7	44.7	54.2	66.1	82.9	111.8	165.9	255.7	348.9	396.9
100°	33.2	39.5	46.4	55.2	66.3	82.0	107.0	152.2	231.6	331.8	407.6
102.5°	36.9	42.5	48.8	57.4	67.6	82.7	105.8	144.9	213.0	306.7	394.0
105°	42.8	47.1	52.9	60.1	69.0	83.2	103.7	136.9	191.9	270.9	356.7
107.5°	48.4	52.8	57.8	63.8	72.2	85.1	104.9	134.2	180.2	245.3	320.0
110°	52.6	56.5	60.8	66.7	74.1	87.0	106.1	133.1	174.7	232.2	298.4



TEST NUMBER: P333300-927

CATALOG NUMBER: S125DIP-S1270D365U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	57.8	60.9	64.5	69.6	76.4	88.6	107.1	132.8	171.0	222.8	281.3
115°	63.9	66.5	69.2	73.7	79.8	91.3	108.8	132.1	166.2	211.1	261.1
117.5°	69.5	71.5	73.7	77.5	83.5	94.3	110.8	132.4	162.5	202.3	246.4
120°	73.9	75.6	77.6	80.9	86.4	97.0	113.1	132.9	160.7	197.0	237.8
122.5°	77.6	78.7	79.9	82.9	88.4	98.6	114.5	133.4	158.6	191.9	229.6
125°	83.3	83.7	84.8	87.0	92.1	102.0	116.6	134.2	155.9	184.7	218.2
127.5°	86.7	87.3	88.8	91.7	97.1	106.5	119.9	135.5	154.2	178.2	207.1
130°	89.7	90.2	92.2	95.5	101.2	110.2	122.7	137.2	153.7	174.8	200.6
132.5°	90.9	91.9	94.6	98.5	104.6	113.4	125.0	137.9	152.6	170.9	193.9
135°	94.3	95.1	98.2	102.4	108.1	116.5	127.0	138.2	150.4	165.0	184.5
137.5°	98.6	99.3	102.2	106.5	112.0	120.1	129.0	138.7	149.6	160.9	176.9
140°	100.4	101.2	104.6	109.0	114.3	122.1	130.4	139.1	148.4	158.1	172.4
142.5°	103.5	103.9	106.8	111.1	115.9	122.9	130.7	138.7	147.3	156.4	168.8
145°	108.2	108.4	111.0	114.6	119.4	125.7	133.0	140.0	147.5	155.7	165.4
147.5°	111.9	112.2	114.6	118.3	122.6	128.3	134.7	141.0	147.8	155.0	162.8
150°	114.8	115.3	117.3	121.0	124.8	129.6	135.8	141.6	147.8	154.2	161.0
152.5°	118.0	118.3	120.0	123.2	126.9	131.2	136.9	142.1	147.6	153.4	159.4
155°	122.1	122.1	123.7	126.5	129.4	133.2	138.0	142.5	146.9	151.8	156.8
157.5°	125.8	125.7	127.1	129.4	131.9	134.9	138.9	142.8	146.2	150.0	154.3
160°	128.3	127.9	129.0	131.0	133.2	135.8	139.4	142.8	145.6	148.9	152.3
162.5°	130.2	130.0	131.1	132.8	134.6	136.7	139.9	142.6	144.9	147.6	150.5
165°	133.2	132.7	133.6	134.9	136.1	137.8	140.0	142.2	143.9	145.6	147.8
167.5°	135.3	135.0	135.5	136.3	137.0	138.2	140.0	141.6	142.4	143.6	145.2
170°	136.7	136.3	136.7	137.2	137.8	138.6	140.0	141.1	141.6	142.5	143.6
172.5°	137.5	137.0	137.3	137.8	138.2	138.6	139.7	140.7	140.8	141.2	142.0
175°	138.6	138.0	138.3	138.6	138.6	138.6	139.4	140.0	139.7	139.7	140.0
177.5°	139.1	138.6	138.6	138.9	138.6	138.6	139.1	139.3	138.9	138.9	139.1
180°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9



TEST NUMBER: P333300-927

CATALOG NUMBER: S125DIP-S1270D365U927-4F0-1E-UDD-D4

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°	133.7	140.1	146.4	150.7	152.6	154.5	156.5	158.4
90°	118.9	125.6	132.1	136.8	138.7	140.6	142.8	144.7
92.5°	159.1	151.6	148.8	148.7	147.0	148.2	149.8	151.2
95°	303.6	267.0	238.6	219.1	201.1	194.6	194.3	191.8
97.5°	395.3	371.2	343.4	314.6	299.1	285.3	279.1	277.3
100°	434.9	427.0	403.9	378.5	360.8	342.3	333.6	330.7
102.5°	445.5	459.5	451.2	435.1	416.1	403.5	393.9	392.1
105°	429.4	473.2	491.1	491.7	484.7	477.4	473.6	472.2
107.5°	391.8	448.5	485.5	503.7	509.9	511.6	511.4	510.9
110°	364.1	422.6	467.2	494.6	509.1	516.3	520.2	522.1



TEST NUMBER: P333300-927

CATALOG NUMBER: S125DIP-S1270D365U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	341.4	396.9	441.8	473.3	493.6	504.7	511.5	515.4
115°	312.3	360.6	403.9	437.7	461.2	476.3	485.8	491.1
117.5°	290.9	333.0	370.7	402.0	425.6	441.4	451.1	455.1
120°	278.8	317.1	352.6	380.4	402.7	417.9	427.1	430.9
122.5°	268.5	304.0	335.9	362.0	382.1	396.1	405.3	409.0
125°	253.6	286.5	315.3	338.3	355.4	368.2	375.8	379.9
127.5°	238.3	269.0	295.8	317.5	333.4	345.1	352.4	355.3
130°	229.3	257.8	283.4	304.3	319.6	330.3	337.2	340.2
132.5°	219.8	246.7	270.3	290.3	305.5	315.9	322.2	325.3
135°	206.0	228.9	250.3	268.8	282.5	293.1	299.5	302.5
137.5°	194.7	213.6	231.7	247.5	259.6	269.1	274.8	277.7
140°	188.0	204.1	220.1	233.9	245.3	253.7	259.0	261.5
142.5°	182.2	195.9	209.6	221.7	231.5	238.8	243.8	246.1
145°	175.5	185.5	195.6	204.4	212.2	218.1	222.2	224.4
147.5°	170.0	177.5	184.7	190.8	196.6	200.9	203.2	204.2
150°	167.2	173.3	178.6	183.8	188.3	191.9	193.3	193.8
152.5°	164.9	170.4	175.2	179.2	182.8	185.5	186.7	187.0
155°	161.5	166.0	169.9	173.0	175.8	177.8	178.6	178.9
157.5°	158.2	161.8	164.9	167.3	169.5	171.1	171.9	171.8
160°	156.0	158.8	161.5	163.5	165.5	166.8	167.4	167.2
162.5°	153.4	156.1	158.4	160.2	161.7	162.8	163.0	162.9
165°	150.0	152.0	153.7	155.1	156.2	156.8	156.8	156.8
167.5°	146.8	148.1	149.4	150.4	151.0	151.5	151.2	151.1
170°	145.0	145.8	146.7	147.3	147.8	148.1	148.1	147.8
172.5°	143.0	143.9	144.5	144.8	144.9	145.4	145.0	144.7
175°	140.9	140.9	141.4	141.4	141.4	141.6	141.1	140.9
177.5°	139.3	139.5	139.5	139.5	139.3	139.5	138.9	138.9
180°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9

(END OF REPORT)