

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: P333379-927

Luminaire Tested: **S125DIW-S610D770U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333379-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S610D770U927-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.8 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: General Diffuse

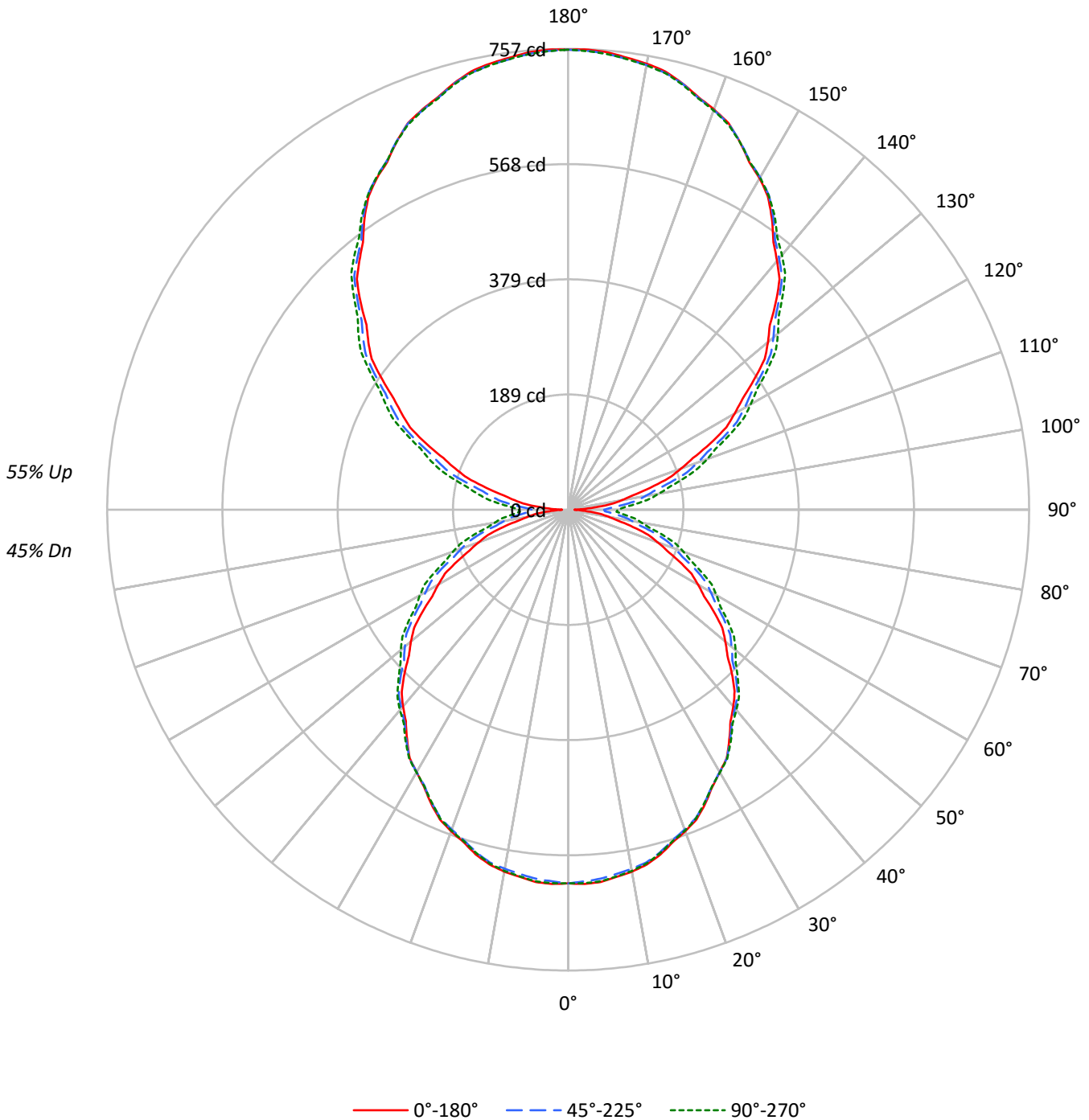
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333379-927

CATALOG NUMBER: S125DIW-S610D770U927-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P333379-927

CATALOG NUMBER: S125DIW-S610D770U927-4F0-1E-UDD-D1

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	91	87	83	88	84	80	77	69	67	64	56	54	53	44	43	42	36
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35	30
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	31	29	25
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25	21
5	66	55	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	24	21	19	16
7	56	44	36	30	51	41	33	28	34	29	24	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	20	17	15	13
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	19	16	14	11
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3965	3965	3965
5°	3973	3892	3904
10°	3945	3822	3817
15°	3898	3740	3705
20°	3834	3636	3593
25°	3759	3526	3457
30°	3667	3405	3332
35°	3583	3293	3217
40°	3496	3176	3103
45°	3398	3076	3001
50°	3305	2967	2910
55°	3192	2865	2804
60°	3069	2747	2697
65°	2942	2625	2574
70°	2795	2458	2451
75°	2563	2297	2296
80°	2262	2101	2129
85°	1981	1972	2077



TEST NUMBER: P333379-927

CATALOG NUMBER: S125DIW-S610D770U927-4F0-1E-UDD-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.4
10°-20°	164.8	4.1
20°-30°	245.1	6.1
30°-40°	290.3	7.2
40°-50°	300.2	7.5
50°-60°	276.5	6.9
60°-70°	223.5	5.6
70°-80°	149.7	3.7
80°-90°	79.3	2.0
90°-100°	94.2	2.3
100°-110°	181.6	4.5
110°-120°	274.7	6.8
120°-130°	345.4	8.6
130°-140°	378.7	9.4
140°-150°	367.0	9.1
150°-160°	307.3	7.7
160°-170°	204.3	5.1
170°-180°	71.5	1.8
0°-30°	467.9	11.7
0°-40°	758.2	18.9
0°-60°	1334.9	33.3
0°-90°	1787.3	44.6
90°-120°	550.4	13.7
90°-150°	1641.4	40.9
90°-180°	2225.0	55.5
0°-180°	4011.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	614	613	608	613	613	58
15°	586	587	583	586	584	165
25°	533	534	531	533	530	245
35°	461	465	463	465	465	288
45°	380	386	389	393	394	293
55°	292	302	311	318	320	261
65°	201	215	229	238	241	199
75°	111	127	146	157	161	117
85°	33	53	74	87	92	35
90°	10	34	59	75	82	9
95°	46	63	89	106	112	47
105°	140	153	174	189	195	149
115°	257	264	280	290	294	254
125°	372	376	388	396	399	333
135°	482	485	490	497	498	372
145°	583	585	587	590	591	364
155°	667	667	668	670	667	307
165°	725	724	724	726	723	204
175°	754	752	752	755	751	72
180°	756	756	756	756	756	



TEST NUMBER: P333379-927

CATALOG NUMBER: S125DIW-S610D770U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9
2.5°	615.4	615.1	615.0	614.7	614.5	614.0	613.3	612.5	611.8	611.0	611.8
5°	613.9	613.6	613.4	613.1	612.8	612.3	611.3	610.4	609.4	608.5	609.6
7.5°	608.5	608.4	608.3	608.2	608.1	607.5	606.6	605.6	604.7	603.7	604.6
10°	603.7	603.7	603.7	603.7	603.7	603.2	602.1	601.0	599.9	598.9	599.8
12.5°	597.0	597.1	597.1	597.3	597.4	597.0	596.1	595.3	594.5	593.6	594.3
15°	586.2	586.4	586.5	586.6	586.8	586.4	585.4	584.5	583.6	582.7	583.4
17.5°	572.3	572.5	572.8	573.1	573.4	573.0	572.1	571.2	570.2	569.3	569.9
20°	562.1	562.4	562.7	563.0	563.2	562.9	562.0	561.0	560.1	559.1	559.5
22.5°	550.6	551.1	551.6	552.1	552.5	552.2	551.2	550.2	549.1	548.1	548.6
25°	532.7	533.1	533.5	533.9	534.2	534.1	533.3	532.5	531.6	530.8	531.4
27.5°	512.7	513.3	513.9	514.4	515.1	514.9	514.0	513.1	512.1	511.3	511.6
30°	497.7	498.6	499.4	500.2	501.0	501.0	500.2	499.4	498.6	497.7	498.0
32.5°	484.3	485.0	485.7	486.4	487.0	487.1	486.6	485.9	485.4	484.7	485.1
35°	461.1	462.0	463.0	463.8	464.8	465.1	464.7	464.2	463.8	463.4	463.8
37.5°	437.8	438.7	439.5	440.4	441.2	441.6	441.5	441.3	441.2	441.1	441.6
40°	421.9	423.0	424.1	425.2	426.2	426.7	426.5	426.4	426.3	426.1	426.7
42.5°	404.6	406.0	407.3	408.8	410.2	411.0	411.3	411.6	411.9	412.2	412.8
45°	379.8	381.3	382.7	384.2	385.7	386.7	387.5	388.1	388.7	389.4	390.4
47.5°	354.4	355.8	357.1	358.5	359.9	361.1	362.3	363.4	364.6	365.7	367.1
50°	337.1	338.5	340.0	341.5	342.9	344.4	345.9	347.4	348.8	350.3	351.8
52.5°	318.8	320.5	322.3	324.2	325.9	327.7	329.5	331.3	333.1	334.9	336.4
55°	291.9	294.1	296.2	298.3	300.5	302.6	304.8	306.9	309.0	311.2	312.7
57.5°	264.5	267.0	269.6	272.2	274.7	277.3	279.7	282.2	284.6	287.1	288.8
60°	246.2	248.8	251.5	254.2	256.9	259.5	262.2	264.9	267.6	270.2	272.3
62.5°	228.4	231.0	233.7	236.4	239.1	241.9	244.7	247.6	250.5	253.4	255.6
65°	201.1	204.1	207.2	210.2	213.3	216.5	219.7	222.9	226.1	229.3	231.3
67.5°	175.3	178.2	181.2	184.2	187.1	190.3	193.5	196.8	200.0	203.4	205.7
70°	156.5	159.5	162.6	165.7	168.8	172.1	175.5	179.0	182.5	186.0	188.5
72.5°	138.2	141.4	144.6	147.7	150.9	154.4	158.2	162.0	165.8	169.6	172.4
75°	110.7	114.2	117.7	121.2	124.7	128.6	132.8	137.1	141.4	145.7	148.3
77.5°	84.4	88.4	92.4	96.4	100.4	104.5	108.6	112.7	116.8	121.0	123.9
80°	68.0	72.0	76.0	80.1	84.1	88.3	92.9	97.4	102.0	106.5	109.5
82.5°	53.1	57.3	61.6	65.8	70.0	74.5	79.1	83.7	88.4	93.1	95.9
85°	33.1	37.5	41.9	46.3	50.8	55.3	60.0	64.6	69.3	74.1	77.0
87.5°	18.9	23.4	27.9	32.4	36.8	41.4	46.2	50.9	55.7	60.4	63.6
90°	10.2	15.5	20.8	26.2	31.5	36.9	42.4	47.8	53.3	58.8	62.5
92.5°	22.9	27.6	32.2	37.0	41.7	46.9	52.7	58.5	64.2	70.0	73.8
95°	46.0	49.7	53.6	57.3	61.0	65.8	71.7	77.5	83.3	89.2	93.1
97.5°	70.6	73.8	77.1	80.3	83.6	88.2	94.4	100.6	106.9	113.0	116.7
100°	89.0	91.7	94.6	97.4	100.2	104.6	110.6	116.5	122.6	128.5	132.5
102.5°	108.7	111.9	114.9	118.0	121.2	125.2	130.3	135.3	140.4	145.4	149.4
105°	139.5	142.3	145.0	147.9	150.7	154.5	159.2	164.1	168.9	173.6	177.1
107.5°	173.6	176.0	178.6	181.0	183.5	187.0	191.4	195.8	200.3	204.8	207.8
110°	197.1	199.4	201.6	203.9	206.1	209.3	213.5	217.6	221.7	225.9	228.8



TEST NUMBER: P333379-927

CATALOG NUMBER: S125DIW-S610D770U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	221.6	223.2	224.8	226.4	228.1	230.9	235.0	239.2	243.4	247.5	250.1
115°	257.1	258.6	260.0	261.4	262.9	265.5	269.3	273.0	276.7	280.4	282.7
117.5°	292.7	293.6	294.4	295.2	296.1	298.3	301.8	305.3	308.9	312.4	314.7
120°	315.3	316.3	317.3	318.5	319.5	321.6	324.8	328.0	331.2	334.5	336.8
122.5°	339.3	339.7	340.1	340.6	341.0	342.8	346.1	349.4	352.8	356.1	358.1
125°	372.3	373.0	373.6	374.2	374.9	376.6	379.5	382.2	385.1	387.9	389.8
127.5°	407.0	407.3	407.6	407.9	408.2	409.6	411.9	414.2	416.6	419.0	420.8
130°	428.2	428.6	429.2	429.7	430.2	431.6	433.7	435.9	438.0	440.1	441.9
132.5°	448.9	449.9	450.9	452.0	453.0	454.2	455.7	457.0	458.4	459.8	461.5
135°	482.3	482.9	483.5	484.2	484.8	485.7	486.8	487.8	488.9	490.0	491.7
137.5°	513.7	514.3	514.9	515.6	516.3	517.0	517.7	518.4	519.2	519.9	521.7
140°	533.4	534.1	534.7	535.4	536.0	536.6	537.1	537.7	538.2	538.7	540.4
142.5°	553.7	554.1	554.5	554.9	555.4	555.9	556.4	556.9	557.5	557.9	559.4
145°	583.4	583.8	584.2	584.6	584.9	585.3	585.7	586.1	586.5	586.9	587.6
147.5°	610.3	610.6	610.9	611.2	611.5	611.7	612.0	612.4	612.7	613.0	613.5
150°	628.7	628.5	628.4	628.3	628.1	628.4	628.8	629.4	629.9	630.4	630.4
152.5°	643.7	643.9	644.0	644.3	644.4	644.6	644.8	645.1	645.2	645.5	645.8
155°	666.9	666.9	666.9	666.9	666.9	666.9	667.1	667.2	667.3	667.5	668.0
157.5°	687.6	687.3	687.0	686.7	686.4	686.3	686.5	686.6	686.7	686.9	687.4
160°	699.8	699.4	699.0	698.6	698.2	698.1	698.2	698.4	698.5	698.6	699.2
162.5°	710.7	710.3	710.0	709.8	709.5	709.3	709.4	709.4	709.4	709.5	710.1
165°	725.1	724.8	724.6	724.3	724.1	724.0	724.1	724.2	724.4	724.5	725.0
167.5°	737.4	736.8	736.3	735.8	735.2	735.0	735.0	735.0	735.0	735.0	735.8
170°	743.9	743.4	742.8	742.4	741.8	741.6	741.6	741.6	741.6	741.6	742.4
172.5°	748.6	748.1	747.6	747.0	746.6	746.2	746.2	746.2	746.2	746.2	747.0
175°	753.9	753.4	752.9	752.3	751.8	751.5	751.5	751.5	751.5	751.5	752.3
177.5°	756.6	756.2	755.7	755.3	754.9	754.7	754.6	754.5	754.4	754.2	754.9
180°	755.7	755.7	755.7	755.7	755.7	755.7	755.7	755.7	755.7	755.7	755.7



TEST NUMBER: P333379-927

CATALOG NUMBER: S125DIW-S610D770U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9
2.5°	612.5	613.3	614.0	614.3	614.3	614.2	614.0	613.9
5°	610.6	611.7	612.8	613.2	613.1	613.0	612.8	612.8
7.5°	605.5	606.5	607.4	607.8	607.7	607.6	607.4	607.3
10°	600.8	601.7	602.6	603.0	602.9	602.8	602.6	602.5
12.5°	595.0	595.7	596.5	596.7	596.3	596.0	595.6	595.2
15°	584.2	585.0	585.8	586.0	585.4	584.9	584.4	583.8
17.5°	570.5	571.1	571.7	571.9	571.6	571.2	570.9	570.6
20°	560.0	560.4	560.8	560.9	560.9	560.9	560.9	560.9
22.5°	549.1	549.6	550.1	550.2	549.9	549.5	549.2	548.9
25°	532.0	532.5	533.0	533.0	532.3	531.6	530.9	530.3
27.5°	512.0	512.4	512.8	512.8	512.5	512.3	512.1	511.8
30°	498.3	498.6	498.8	498.9	498.8	498.6	498.5	498.4
32.5°	485.3	485.5	485.8	485.9	485.8	485.6	485.5	485.4
35°	464.2	464.7	465.1	465.2	465.2	465.2	465.2	465.2
37.5°	442.1	442.7	443.2	443.5	443.4	443.3	443.3	443.2
40°	427.2	427.8	428.3	428.6	429.0	429.2	429.5	429.8
42.5°	413.4	414.1	414.7	415.1	415.2	415.2	415.3	415.3
45°	391.3	392.2	393.2	393.7	393.9	394.0	394.1	394.3
47.5°	368.4	369.8	371.1	372.0	372.3	372.6	372.9	373.2
50°	353.2	354.7	356.2	357.1	357.5	357.9	358.3	358.7
52.5°	338.0	339.6	341.2	342.1	342.5	342.7	343.0	343.3
55°	314.1	315.6	317.0	318.1	318.6	319.2	319.6	320.2
57.5°	290.5	292.2	293.8	294.9	295.3	295.7	296.1	296.5
60°	274.3	276.2	278.3	279.5	279.9	280.3	280.7	281.1
62.5°	257.9	260.1	262.3	263.6	264.1	264.7	265.1	265.7
65°	233.3	235.4	237.3	238.6	239.2	239.7	240.2	240.7
67.5°	208.2	210.6	213.0	214.6	215.3	216.0	216.7	217.4
70°	191.1	193.6	196.1	197.8	198.6	199.4	200.3	201.1
72.5°	175.2	177.8	180.6	182.3	182.9	183.5	184.1	184.7
75°	151.0	153.7	156.4	158.0	158.7	159.4	160.0	160.7
77.5°	126.8	129.8	132.8	134.5	135.0	135.5	136.1	136.7
80°	112.4	115.3	118.3	120.0	120.6	121.1	121.7	122.2
82.5°	98.7	101.6	104.4	106.3	107.3	108.2	109.2	110.1
85°	79.9	82.9	85.8	87.8	88.9	89.9	91.0	92.1
87.5°	66.8	70.0	73.2	75.3	76.4	77.3	78.3	79.4
90°	66.2	69.9	73.7	76.2	77.6	78.9	80.2	81.5
92.5°	77.7	81.5	85.3	87.9	89.1	90.3	91.6	92.8
95°	97.0	100.8	104.6	107.2	108.4	109.6	110.7	111.9
97.5°	120.3	124.1	127.7	130.1	131.2	132.2	133.2	134.4
100°	136.5	140.5	144.4	146.9	148.1	149.1	150.1	151.2
102.5°	153.4	157.3	161.3	163.9	165.1	166.2	167.4	168.6
105°	180.5	184.0	187.5	189.9	191.2	192.6	193.8	195.2
107.5°	210.8	213.9	216.9	218.8	219.7	220.5	221.3	222.0
110°	231.7	234.6	237.7	239.5	240.3	241.1	241.9	242.7



TEST NUMBER: P333379-927

CATALOG NUMBER: S125DIW-S610D770U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	252.7	255.3	257.9	259.6	260.3	261.0	261.7	262.4
115°	285.0	287.3	289.5	291.0	291.7	292.4	293.0	293.7
117.5°	317.1	319.5	321.9	323.3	323.7	324.1	324.5	324.8
120°	339.0	341.3	343.6	344.8	345.1	345.4	345.6	345.9
122.5°	360.2	362.3	364.3	365.5	365.9	366.3	366.7	367.1
125°	391.7	393.5	395.4	396.6	397.1	397.7	398.2	398.7
127.5°	422.6	424.5	426.4	427.5	428.0	428.6	429.0	429.6
130°	443.6	445.4	447.1	448.1	448.5	448.9	449.3	449.8
132.5°	463.3	465.0	466.8	467.8	467.9	468.2	468.3	468.5
135°	493.5	495.2	496.9	497.9	498.0	498.2	498.3	498.4
137.5°	523.4	525.1	526.9	527.7	527.5	527.4	527.3	527.2
140°	542.2	543.9	545.7	546.4	546.3	546.2	546.1	546.0
142.5°	560.8	562.2	563.6	564.3	564.2	564.0	564.0	563.8
145°	588.3	588.9	589.5	590.0	590.1	590.3	590.4	590.6
147.5°	614.1	614.6	615.1	615.1	614.4	613.8	613.1	612.4
150°	630.4	630.4	630.4	630.3	630.3	630.1	629.9	629.9
152.5°	646.1	646.4	646.7	646.7	646.2	645.8	645.3	644.9
155°	668.5	669.0	669.6	669.5	668.8	668.2	667.5	666.9
157.5°	687.9	688.4	689.0	688.8	687.9	687.1	686.2	685.3
160°	699.7	700.2	700.7	700.7	700.0	699.3	698.7	698.1
162.5°	710.7	711.3	711.9	711.9	711.1	710.3	709.6	708.8
165°	725.6	726.1	726.6	726.4	725.7	724.9	724.1	723.3
167.5°	736.6	737.4	738.1	738.1	737.3	736.5	735.7	734.8
170°	743.1	743.9	744.7	744.7	743.7	742.8	741.9	741.0
172.5°	747.8	748.6	749.4	749.4	748.6	747.7	746.9	746.2
175°	753.1	753.9	754.7	754.6	753.7	752.8	751.9	751.0
177.5°	755.5	756.1	756.8	756.7	756.0	755.3	754.6	753.8
180°	755.7	755.7	755.7	755.7	755.7	755.7	755.7	755.7

(END OF REPORT)