

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: P333163-927

Luminaire Tested: **S125DIP-S610D365U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333163-927
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-S610D365U927-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3062.3 lumens
Efficiency: N/A
Efficacy: 111.4 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

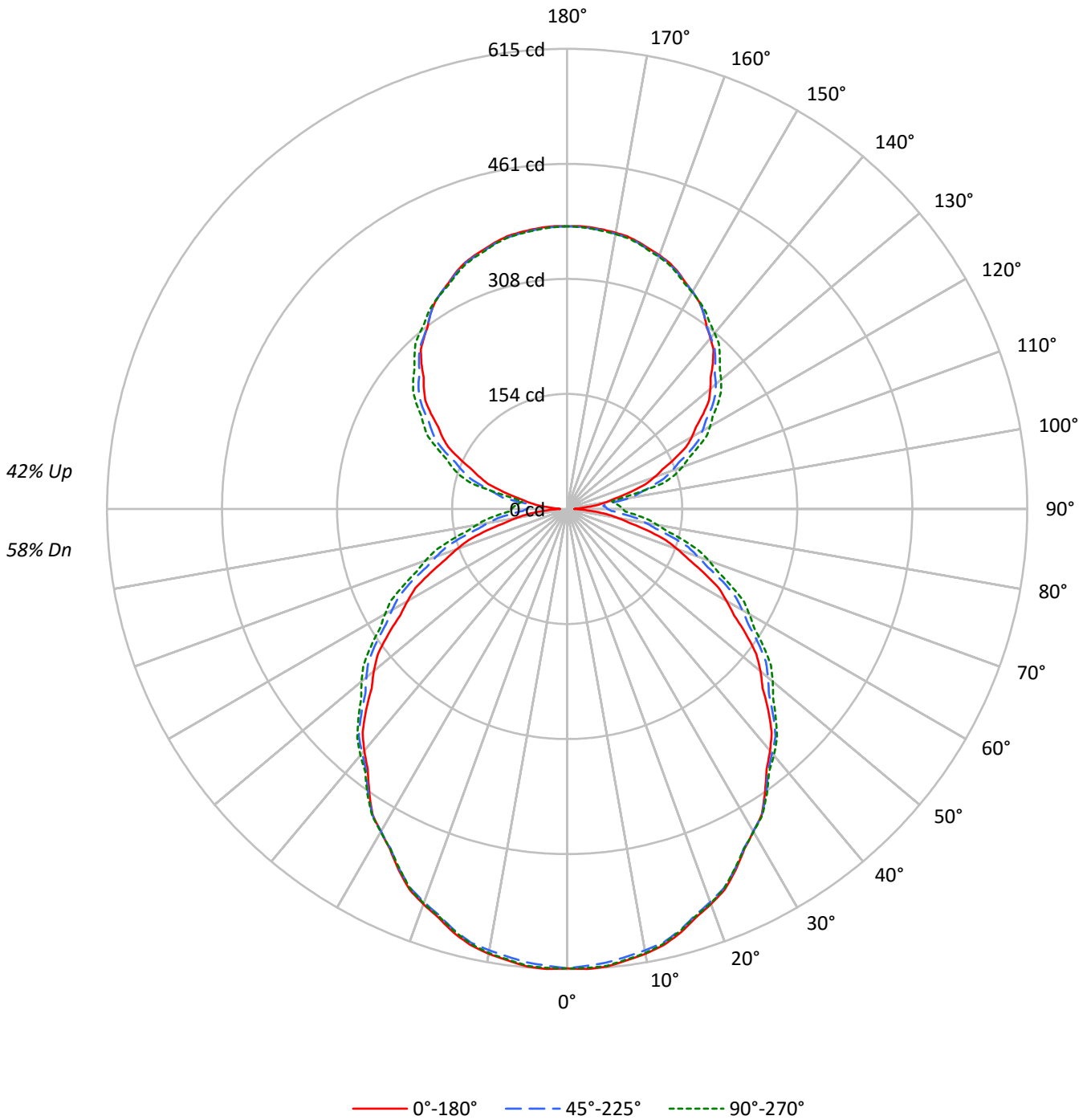
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333163-927

CATALOG NUMBER: S125DIP-S610D365U927-4F0-1E-UDD-D

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	54	52	47
2	90	82	75	69	83	76	70	65	66	62	58	57	53	50	48	45	43	39
3	82	71	64	58	76	67	60	54	58	53	48	50	46	42	42	39	36	33
4	75	63	55	48	69	59	52	46	51	45	41	44	40	36	38	34	31	28
5	68	56	48	41	63	53	45	39	46	40	35	40	35	31	34	30	27	24
6	63	50	42	36	58	47	40	34	41	35	31	36	31	27	31	27	24	21
7	58	45	37	31	54	43	35	30	37	31	27	32	28	24	28	24	21	18
8	54	41	33	28	50	39	32	26	34	28	24	30	25	21	26	22	19	16
9	50	38	30	25	47	35	28	24	31	25	21	27	23	19	24	20	17	15
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	15	13

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.9
10°-20°	164.8	5.4
20°-30°	245.1	8.0
30°-40°	290.3	9.5
40°-50°	300.2	9.8
50°-60°	276.5	9.0
60°-70°	223.5	7.3
70°-80°	149.7	4.9
80°-90°	78.4	2.6
90°-100°	57.3	1.9
100°-110°	116.7	3.8
110°-120°	175.0	5.7
120°-130°	209.1	6.8
130°-140°	217.1	7.1
140°-150°	199.9	6.5
150°-160°	160.8	5.3
160°-170°	104.0	3.4
170°-180°	35.9	1.2
0°-30°	467.9	15.3
0°-40°	758.2	24.8
0°-60°	1334.9	43.6
0°-90°	1786.5	58.3
90°-120°	349.0	11.4
90°-150°	975.2	31.8
90°-180°	1276.0	41.7
0°-180°	3062.3	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	31	54	68	74	7
95°	24	38	48	62	67	26
105°	88	99	116	128	132	93
115°	158	164	180	189	191	157
125°	222	224	236	244	246	198
135°	275	277	280	287	289	212
145°	318	318	318	322	322	199
155°	350	348	349	350	348	161
165°	369	368	368	369	367	104
175°	378	376	376	378	376	36
180°	378	378	378	378	378	



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CATALOG NUMBER: S125DIP-S610D365U927-4F0-1E-UDD-D

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	23.2	27.6	32.0	36.4	40.9	45.5	50.1	54.7	59.4	62.5
90°	9.9	14.7	19.5	24.2	29.0	33.9	38.9	43.9	48.9	53.9	57.2
92.5°	13.0	16.6	20.2	23.8	27.4	31.8	36.8	41.8	46.9	51.9	55.2
95°	23.8	27.1	30.3	33.7	36.9	39.7	41.9	44.0	46.3	48.4	51.7
97.5°	40.4	43.9	47.4	50.9	54.3	55.8	55.6	55.3	55.0	54.7	55.8
100°	53.4	56.4	59.4	62.3	65.4	69.2	73.7	78.2	82.7	87.2	80.8
102.5°	66.5	69.4	72.2	75.1	77.9	81.4	85.8	90.2	94.4	98.8	99.7
105°	87.8	90.2	92.5	94.9	97.3	100.5	104.5	108.5	112.6	116.5	119.2
107.5°	109.8	111.5	113.4	115.2	117.0	119.9	123.9	127.9	131.9	135.9	138.5
110°	124.1	125.6	127.3	128.9	130.5	133.2	137.1	140.9	144.8	148.7	151.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	137.9	139.4	140.9	142.3	143.7	146.2	150.0	153.7	157.4	161.1	163.3
115°	158.2	159.5	160.7	161.9	163.2	165.6	169.1	172.6	176.2	179.7	181.9
117.5°	179.1	179.7	180.4	180.9	181.6	183.6	187.1	190.7	194.2	197.7	199.7
120°	192.6	192.9	193.3	193.6	193.9	195.7	199.0	202.2	205.5	208.8	211.0
122.5°	204.0	204.4	204.9	205.3	205.7	207.4	210.5	213.5	216.6	219.7	221.7
125°	222.2	222.5	222.8	223.2	223.4	224.9	227.6	230.3	233.0	235.6	237.5
127.5°	239.2	239.3	239.5	239.7	239.9	241.1	243.2	245.3	247.5	249.6	251.5
130°	249.9	250.1	250.3	250.4	250.6	251.7	253.6	255.6	257.5	259.4	261.1
132.5°	260.2	260.5	260.9	261.2	261.5	262.4	263.6	265.0	266.3	267.6	269.4
135°	275.4	275.6	275.8	276.1	276.3	276.9	277.7	278.5	279.2	280.1	281.7
137.5°	289.3	289.5	289.7	289.9	290.2	290.4	290.8	291.1	291.4	291.8	293.4
140°	298.0	298.1	298.3	298.3	298.5	298.6	298.7	298.7	298.8	298.9	300.5
142.5°	306.3	306.3	306.2	306.2	306.2	306.2	306.3	306.4	306.5	306.7	307.9
145°	318.5	318.5	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	319.1
147.5°	328.4	328.4	328.4	328.4	328.4	328.4	328.4	328.5	328.6	328.7	329.0
150°	335.2	335.1	334.9	334.8	334.7	334.7	334.8	334.9	335.1	335.2	335.3
152.5°	341.7	341.4	341.1	340.9	340.6	340.5	340.6	340.8	340.9	341.0	341.1
155°	350.1	349.7	349.3	348.9	348.6	348.4	348.6	348.6	348.8	348.9	349.1
157.5°	356.5	356.2	356.0	355.8	355.6	355.5	355.5	355.5	355.5	355.5	355.7
160°	360.9	360.6	360.2	359.8	359.5	359.3	359.3	359.4	359.5	359.6	359.8
162.5°	364.6	364.2	363.8	363.4	363.1	362.9	363.0	363.0	363.1	363.1	363.5
165°	369.3	369.0	368.6	368.2	367.9	367.7	367.7	367.8	367.9	368.0	368.3
167.5°	373.0	372.6	372.2	371.8	371.4	371.2	371.3	371.4	371.5	371.5	371.9
170°	374.9	374.5	374.1	373.7	373.2	373.0	373.1	373.1	373.2	373.3	373.8
172.5°	376.3	375.9	375.4	375.0	374.5	374.4	374.5	374.6	374.7	374.9	375.3
175°	377.7	377.4	377.0	376.6	376.3	376.1	376.1	376.2	376.3	376.4	376.8
177.5°	378.4	378.1	377.8	377.6	377.2	377.1	377.2	377.2	377.2	377.3	377.6
180°	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7



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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°	65.7	68.8	71.9	74.0	75.0	76.0	76.9	77.9
90°	60.6	64.0	67.4	69.6	70.7	71.9	73.0	74.1
92.5°	58.5	61.8	65.0	67.2	68.2	69.2	70.3	71.3
95°	54.9	58.1	61.4	63.5	64.5	65.4	66.3	67.3
97.5°	56.8	57.8	58.9	59.9	60.8	61.7	62.7	63.5
100°	74.3	67.9	61.4	58.5	59.0	59.6	60.1	60.7
102.5°	100.7	101.6	102.6	101.3	97.9	94.4	91.0	87.6
105°	121.9	124.6	127.2	129.0	129.9	130.8	131.7	132.5
107.5°	141.2	143.9	146.5	148.1	148.8	149.4	150.0	150.7
110°	153.4	155.7	158.1	159.8	160.8	161.8	162.8	163.8



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CATALOG NUMBER: S125DIP-S610D365U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	165.5	167.7	169.9	171.4	172.3	173.1	174.0	174.8
115°	184.0	186.2	188.4	189.6	190.0	190.5	190.9	191.4
117.5°	201.6	203.6	205.5	206.8	207.6	208.3	209.1	209.8
120°	213.1	215.2	217.4	218.7	219.2	219.7	220.1	220.7
122.5°	223.7	225.8	227.8	229.0	229.5	230.0	230.4	230.8
125°	239.4	241.3	243.2	244.4	244.9	245.3	245.8	246.3
127.5°	253.3	255.2	257.1	258.1	258.4	258.7	259.0	259.4
130°	262.8	264.4	266.2	267.2	267.5	267.9	268.2	268.6
132.5°	271.2	273.1	274.9	275.9	276.2	276.5	276.7	276.9
135°	283.3	284.9	286.5	287.5	287.8	288.1	288.4	288.7
137.5°	295.0	296.6	298.2	299.1	299.4	299.5	299.8	300.0
140°	302.1	303.6	305.2	306.1	306.3	306.4	306.7	306.8
142.5°	309.2	310.5	311.8	312.5	312.7	312.8	313.0	313.1
145°	319.9	320.6	321.3	321.8	321.9	322.1	322.3	322.4
147.5°	329.2	329.5	329.9	329.9	329.7	329.5	329.2	329.1
150°	335.4	335.6	335.6	335.6	335.2	334.9	334.5	334.1
152.5°	341.3	341.4	341.5	341.4	341.0	340.5	340.1	339.7
155°	349.3	349.4	349.7	349.5	349.0	348.5	348.0	347.5
157.5°	355.9	356.1	356.3	356.2	355.7	355.1	354.7	354.2
160°	360.0	360.3	360.5	360.4	359.9	359.4	358.9	358.5
162.5°	363.8	364.2	364.6	364.4	363.8	363.3	362.8	362.3
165°	368.7	369.1	369.5	369.4	368.9	368.4	367.9	367.4
167.5°	372.4	372.8	373.3	373.2	372.6	372.1	371.5	371.0
170°	374.2	374.8	375.3	375.3	374.7	374.1	373.5	373.0
172.5°	375.7	376.2	376.6	376.6	376.0	375.4	374.9	374.3
175°	377.3	377.9	378.3	378.3	377.7	377.2	376.6	376.0
177.5°	378.0	378.3	378.7	378.7	378.3	377.9	377.5	377.1
180°	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7

(END OF REPORT)