

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: P333163-935

Luminaire Tested: **S125DIP-S610D365U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333163-935
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-S610D365U935-4F0-1E-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: 3328.4 lumens
Efficiency: N/A
Efficacy: 121.0 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

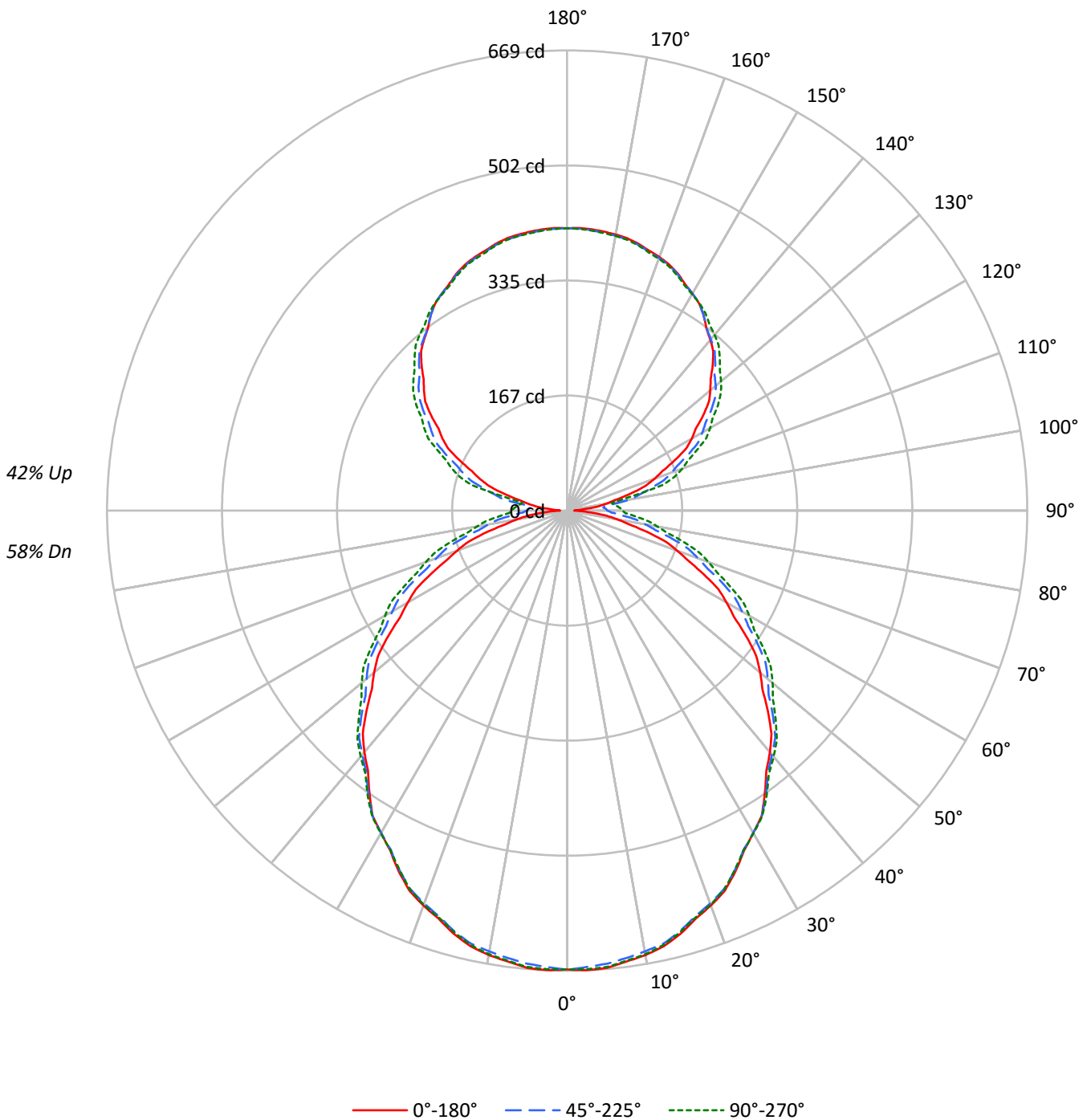
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333163-935

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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	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°	4310	4310	4310
5°	4318	4229	4243
10°	4288	4154	4148
15°	4236	4064	4027
20°	4168	3952	3906
25°	4086	3833	3757
30°	3987	3701	3622
35°	3894	3580	3497
40°	3800	3452	3372
45°	3693	3344	3261
50°	3592	3225	3163
55°	3469	3114	3048
60°	3336	2986	2931
65°	3196	2854	2799
70°	3036	2672	2663
75°	2788	2496	2496
80°	2461	2284	2314
85°	2155	2142	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.9
10°-20°	179.1	5.4
20°-30°	266.4	8.0
30°-40°	315.5	9.5
40°-50°	326.2	9.8
50°-60°	300.5	9.0
60°-70°	242.9	7.3
70°-80°	162.7	4.9
80°-90°	85.2	2.6
90°-100°	62.3	1.9
100°-110°	126.9	3.8
110°-120°	190.2	5.7
120°-130°	227.3	6.8
130°-140°	236.0	7.1
140°-150°	217.3	6.5
150°-160°	174.8	5.3
160°-170°	113.0	3.4
170°-180°	39.0	1.2
0°-30°	508.6	15.3
0°-40°	824.1	24.8
0°-60°	1450.8	43.6
0°-90°	1941.7	58.3
90°-120°	379.3	11.4
90°-150°	1059.9	31.8
90°-180°	1387.0	41.7
0°-180°	3328.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	667	666	661	666	666	63
15°	637	638	633	637	635	179
25°	579	581	577	579	576	266
35°	501	505	504	506	506	313
45°	413	420	423	428	428	318
55°	317	328	338	345	348	284
65°	218	234	249	259	262	217
75°	120	138	158	171	175	128
85°	36	58	80	94	100	38
90°	11	34	58	74	81	8
95°	26	42	53	68	73	29
105°	95	108	127	139	144	101
115°	172	179	195	205	208	170
125°	242	244	256	265	268	216
135°	299	301	304	312	314	231
145°	346	346	346	349	350	216
155°	380	379	379	380	378	175
165°	401	400	400	402	399	113
175°	410	409	409	411	409	39
180°	410	410	410	410	410	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3
2.5°	668.8	668.6	668.4	668.1	667.9	667.4	666.6	665.7	665.0	664.1	665.0
5°	667.3	666.9	666.7	666.4	666.1	665.5	664.4	663.4	662.4	661.3	662.5
7.5°	661.3	661.2	661.2	661.0	660.9	660.3	659.3	658.2	657.2	656.2	657.1
10°	656.2	656.2	656.2	656.2	656.2	655.6	654.4	653.2	652.0	650.9	651.9
12.5°	648.8	648.9	649.0	649.2	649.3	648.8	647.9	647.0	646.1	645.1	645.9
15°	637.1	637.3	637.5	637.6	637.7	637.3	636.3	635.2	634.3	633.3	634.1
17.5°	622.0	622.2	622.6	622.8	623.2	622.8	621.8	620.8	619.7	618.7	619.4
20°	611.0	611.3	611.6	611.9	612.2	611.8	610.8	609.8	608.7	607.7	608.1
22.5°	598.5	599.0	599.5	600.0	600.5	600.2	599.1	598.0	596.8	595.7	596.2
25°	578.9	579.4	579.8	580.2	580.7	580.5	579.6	578.8	577.8	577.0	577.6
27.5°	557.2	557.8	558.5	559.1	559.8	559.6	558.6	557.7	556.6	555.7	556.0
30°	541.0	541.9	542.8	543.6	544.5	544.5	543.6	542.8	541.9	541.0	541.3
32.5°	526.3	527.1	527.9	528.7	529.3	529.4	528.8	528.1	527.5	526.8	527.2
35°	501.1	502.1	503.2	504.1	505.1	505.5	505.1	504.5	504.1	503.7	504.1
37.5°	475.9	476.8	477.7	478.6	479.6	479.9	479.8	479.7	479.5	479.4	479.9
40°	458.6	459.8	460.9	462.1	463.2	463.7	463.6	463.5	463.3	463.1	463.7
42.5°	439.7	441.3	442.7	444.3	445.8	446.7	447.0	447.4	447.6	448.0	448.7
45°	412.8	414.4	415.9	417.6	419.2	420.3	421.1	421.8	422.5	423.3	424.3
47.5°	385.2	386.7	388.1	389.6	391.2	392.4	393.7	394.9	396.2	397.4	399.0
50°	366.4	367.9	369.5	371.2	372.7	374.4	375.9	377.5	379.1	380.7	382.4
52.5°	346.5	348.4	350.3	352.3	354.2	356.2	358.2	360.1	362.1	363.9	365.7
55°	317.3	319.6	321.9	324.3	326.6	328.9	331.2	333.6	335.9	338.2	339.8
57.5°	287.5	290.2	293.0	295.8	298.6	301.4	304.0	306.7	309.4	312.0	313.8
60°	267.6	270.4	273.4	276.3	279.2	282.1	285.0	287.9	290.8	293.7	295.9
62.5°	248.2	251.1	254.0	256.9	259.8	262.9	266.0	269.1	272.2	275.4	277.8
65°	218.5	221.9	225.2	228.5	231.9	235.3	238.8	242.3	245.7	249.3	251.4
67.5°	190.5	193.7	196.9	200.2	203.4	206.8	210.3	213.9	217.4	221.0	223.6
70°	170.0	173.4	176.8	180.1	183.5	187.0	190.8	194.6	198.4	202.2	204.9
72.5°	150.2	153.7	157.1	160.6	164.0	167.8	171.9	176.1	180.2	184.3	187.4
75°	120.4	124.2	127.9	131.7	135.5	139.7	144.4	149.0	153.7	158.3	161.2
77.5°	91.7	96.1	100.5	104.8	109.2	113.6	118.0	122.5	127.0	131.5	134.7
80°	74.0	78.3	82.7	87.0	91.4	96.0	101.0	105.9	110.8	115.8	119.0
82.5°	57.7	62.3	66.9	71.5	76.1	80.9	85.9	91.0	96.1	101.2	104.2
85°	36.0	40.8	45.5	50.4	55.2	60.1	65.2	70.3	75.3	80.5	83.7
87.5°	20.5	25.2	30.0	34.8	39.5	44.4	49.4	54.5	59.5	64.6	67.9
90°	10.8	15.9	21.2	26.3	31.5	36.9	42.3	47.7	53.1	58.5	62.2
92.5°	14.1	18.0	22.0	25.9	29.8	34.5	40.0	45.5	51.0	56.4	60.0
95°	25.8	29.4	33.0	36.6	40.1	43.1	45.5	47.9	50.3	52.6	56.1
97.5°	43.9	47.7	51.5	55.3	59.0	60.7	60.4	60.1	59.8	59.5	60.6
100°	58.0	61.3	64.6	67.8	71.0	75.2	80.1	85.0	89.9	94.8	87.8
102.5°	72.3	75.4	78.5	81.6	84.6	88.5	93.2	98.0	102.6	107.4	108.4
105°	95.4	98.0	100.6	103.1	105.7	109.3	113.6	118.0	122.3	126.7	129.6
107.5°	119.3	121.2	123.2	125.2	127.2	130.4	134.7	139.0	143.4	147.7	150.5
110°	134.8	136.6	138.4	140.1	141.8	144.8	149.0	153.2	157.4	161.6	164.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	149.9	151.5	153.1	154.6	156.2	158.9	163.0	167.0	171.1	175.1	177.5
115°	171.9	173.3	174.6	176.0	177.4	179.9	183.8	187.6	191.5	195.4	197.7
117.5°	194.7	195.4	196.0	196.7	197.3	199.6	203.4	207.2	211.0	214.9	217.1
120°	209.3	209.7	210.1	210.4	210.8	212.8	216.3	219.8	223.3	227.0	229.3
122.5°	221.7	222.1	222.7	223.1	223.5	225.4	228.8	232.0	235.4	238.8	240.9
125°	241.5	241.9	242.2	242.5	242.8	244.4	247.4	250.3	253.2	256.1	258.1
127.5°	259.9	260.1	260.3	260.5	260.7	262.0	264.3	266.7	269.0	271.3	273.4
130°	271.6	271.8	272.0	272.2	272.4	273.5	275.6	277.8	279.8	282.0	283.8
132.5°	282.8	283.2	283.5	283.9	284.2	285.2	286.5	288.0	289.4	290.8	292.8
135°	299.3	299.5	299.8	300.1	300.3	300.9	301.8	302.6	303.5	304.4	306.2
137.5°	314.4	314.6	314.9	315.1	315.4	315.6	316.1	316.4	316.8	317.1	318.9
140°	323.9	324.0	324.2	324.3	324.4	324.5	324.6	324.7	324.8	324.9	326.6
142.5°	332.9	332.9	332.8	332.8	332.8	332.8	332.9	333.0	333.1	333.3	334.7
145°	346.1	346.1	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.8
147.5°	357.0	357.0	357.0	356.9	356.9	356.9	357.0	357.1	357.1	357.2	357.6
150°	364.3	364.2	364.0	363.9	363.8	363.8	363.9	364.0	364.2	364.3	364.5
152.5°	371.3	371.1	370.7	370.5	370.1	370.1	370.2	370.4	370.5	370.7	370.7
155°	380.5	380.0	379.6	379.2	378.8	378.7	378.8	378.9	379.1	379.2	379.4
157.5°	387.4	387.2	386.9	386.7	386.5	386.3	386.3	386.4	386.4	386.4	386.6
160°	392.3	391.9	391.5	391.1	390.7	390.5	390.5	390.6	390.7	390.8	391.1
162.5°	396.2	395.8	395.4	394.9	394.6	394.4	394.5	394.5	394.6	394.7	395.0
165°	401.4	401.1	400.6	400.2	399.8	399.7	399.7	399.8	399.8	399.9	400.3
167.5°	405.4	404.9	404.5	404.1	403.6	403.5	403.6	403.6	403.7	403.7	404.2
170°	407.5	407.1	406.6	406.1	405.6	405.4	405.5	405.5	405.6	405.7	406.2
172.5°	409.0	408.5	408.0	407.6	407.1	406.9	407.0	407.2	407.3	407.4	407.9
175°	410.5	410.2	409.7	409.3	409.0	408.8	408.8	408.9	409.0	409.1	409.6
177.5°	411.3	411.0	410.6	410.4	410.0	409.8	409.9	410.0	410.0	410.1	410.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3
2.5°	665.7	666.6	667.4	667.7	667.6	667.5	667.4	667.3
5°	663.7	664.9	666.0	666.5	666.4	666.2	666.1	666.0
7.5°	658.1	659.2	660.2	660.6	660.5	660.4	660.2	660.0
10°	653.0	653.9	655.0	655.4	655.3	655.1	655.0	654.8
12.5°	646.7	647.5	648.3	648.5	648.1	647.7	647.4	647.0
15°	635.0	635.8	636.7	636.9	636.3	635.7	635.2	634.6
17.5°	620.1	620.7	621.4	621.6	621.2	620.9	620.5	620.2
20°	608.6	609.1	609.5	609.7	609.7	609.7	609.7	609.7
22.5°	596.8	597.4	597.9	598.0	597.6	597.3	596.9	596.6
25°	578.2	578.8	579.3	579.3	578.5	577.8	577.0	576.4
27.5°	556.5	556.9	557.3	557.3	557.1	556.8	556.6	556.3
30°	541.6	541.9	542.2	542.3	542.1	541.9	541.8	541.7
32.5°	527.4	527.7	528.1	528.1	528.0	527.8	527.7	527.5
35°	504.5	505.1	505.5	505.7	505.7	505.7	505.7	505.7
37.5°	480.5	481.1	481.7	482.0	481.9	481.8	481.8	481.7
40°	464.3	464.9	465.5	465.9	466.2	466.5	466.8	467.1
42.5°	449.4	450.0	450.7	451.2	451.3	451.3	451.3	451.4
45°	425.2	426.3	427.3	427.9	428.1	428.2	428.3	428.5
47.5°	400.5	401.9	403.4	404.3	404.7	404.9	405.3	405.6
50°	383.9	385.6	387.1	388.1	388.6	389.0	389.4	389.9
52.5°	367.4	369.1	370.8	371.9	372.2	372.5	372.8	373.2
55°	341.4	343.0	344.6	345.7	346.3	346.9	347.4	348.0
57.5°	315.7	317.5	319.3	320.5	321.0	321.4	321.8	322.3
60°	298.1	300.2	302.5	303.8	304.2	304.6	305.1	305.5
62.5°	280.3	282.7	285.1	286.5	287.1	287.7	288.2	288.8
65°	253.6	255.8	258.0	259.3	259.9	260.5	261.1	261.7
67.5°	226.3	228.9	231.5	233.2	234.0	234.8	235.6	236.3
70°	207.7	210.4	213.2	215.0	215.9	216.7	217.7	218.5
72.5°	190.4	193.3	196.3	198.1	198.8	199.4	200.1	200.7
75°	164.1	167.0	170.0	171.8	172.5	173.2	173.9	174.7
77.5°	137.8	141.1	144.3	146.2	146.7	147.3	147.9	148.5
80°	122.2	125.4	128.5	130.4	131.0	131.6	132.2	132.8
82.5°	107.3	110.4	113.5	115.5	116.6	117.6	118.6	119.7
85°	86.9	90.1	93.2	95.4	96.6	97.7	98.9	100.0
87.5°	71.4	74.8	78.2	80.4	81.5	82.6	83.6	84.6
90°	65.9	69.6	73.3	75.7	76.9	78.1	79.4	80.6
92.5°	63.5	67.2	70.7	73.0	74.1	75.3	76.4	77.5
95°	59.7	63.2	66.7	69.1	70.1	71.1	72.1	73.1
97.5°	61.7	62.9	64.1	65.1	66.1	67.1	68.1	69.1
100°	80.8	73.8	66.7	63.5	64.1	64.7	65.3	66.0
102.5°	109.4	110.5	111.5	110.1	106.4	102.6	98.9	95.2
105°	132.5	135.4	138.3	140.3	141.2	142.2	143.1	144.0
107.5°	153.4	156.4	159.2	161.0	161.7	162.4	163.1	163.8
110°	166.8	169.3	171.9	173.7	174.8	175.8	176.9	178.1



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CATALOG NUMBER: S125DIP-S610D365U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	179.9	182.3	184.7	186.3	187.3	188.1	189.1	190.0
115°	200.0	202.3	204.7	206.1	206.6	207.1	207.5	208.0
117.5°	219.1	221.3	223.3	224.8	225.7	226.4	227.3	228.1
120°	231.6	233.9	236.3	237.7	238.2	238.8	239.3	239.9
122.5°	243.1	245.4	247.6	248.9	249.4	249.9	250.4	250.9
125°	260.2	262.3	264.3	265.6	266.1	266.7	267.2	267.7
127.5°	275.3	277.3	279.4	280.5	280.9	281.2	281.5	281.9
130°	285.6	287.4	289.3	290.4	290.8	291.2	291.5	292.0
132.5°	294.8	296.8	298.8	299.9	300.2	300.5	300.7	301.0
135°	307.9	309.7	311.4	312.5	312.8	313.1	313.4	313.7
137.5°	320.6	322.4	324.1	325.1	325.4	325.5	325.8	326.1
140°	328.3	330.0	331.7	332.7	332.9	333.0	333.3	333.5
142.5°	336.0	337.4	338.9	339.7	339.8	340.0	340.2	340.4
145°	347.7	348.4	349.2	349.7	349.9	350.1	350.3	350.4
147.5°	357.8	358.2	358.5	358.5	358.3	358.1	357.8	357.7
150°	364.5	364.7	364.8	364.7	364.3	363.9	363.5	363.2
152.5°	370.9	371.0	371.2	371.0	370.6	370.1	369.6	369.2
155°	379.6	379.8	380.0	379.9	379.4	378.8	378.2	377.7
157.5°	386.8	387.0	387.3	387.1	386.6	386.0	385.5	385.0
160°	391.3	391.6	391.8	391.8	391.2	390.6	390.1	389.6
162.5°	395.5	395.8	396.2	396.1	395.5	394.9	394.3	393.7
165°	400.7	401.1	401.6	401.5	401.0	400.4	399.8	399.3
167.5°	404.8	405.2	405.7	405.6	405.0	404.4	403.8	403.2
170°	406.7	407.3	407.9	407.9	407.3	406.7	406.0	405.4
172.5°	408.4	408.9	409.3	409.3	408.7	408.0	407.4	406.8
175°	410.1	410.7	411.2	411.2	410.5	409.9	409.3	408.7
177.5°	410.9	411.2	411.6	411.6	411.1	410.7	410.3	409.8
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5

(END OF REPORT)