

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: P333163-930

Luminaire Tested: **S125DIP-S610D365U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333163-930
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-S610D365U930-4F0-1E-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: 3151.7 lumens
Efficiency: N/A
Efficacy: 114.6 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

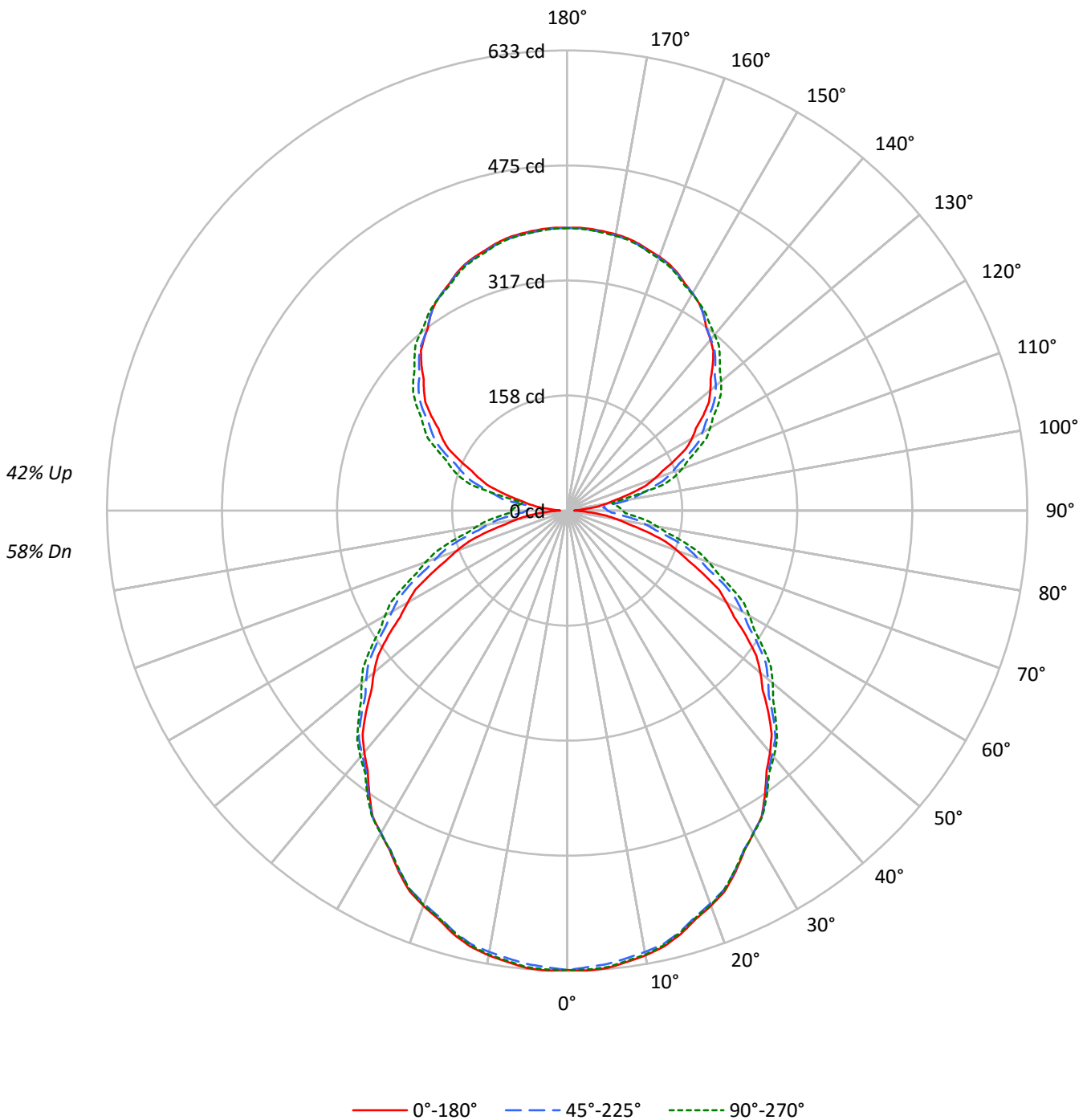
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333163-930

CATALOG NUMBER: S125DIP-S610D365U930-4F0-1E-UDD-D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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°	4081	4081	4081
5°	4089	4005	4018
10°	4060	3934	3927
15°	4011	3849	3813
20°	3946	3742	3698
25°	3869	3629	3558
30°	3775	3505	3429
35°	3687	3390	3311
40°	3598	3269	3193
45°	3497	3166	3089
50°	3401	3054	2996
55°	3285	2948	2886
60°	3159	2827	2775
65°	3027	2702	2650
70°	2876	2529	2521
75°	2639	2363	2363
80°	2328	2164	2190
85°	2041	2028	2136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	1.9
10°-20°	169.6	5.4
20°-30°	252.2	8.0
30°-40°	298.8	9.5
40°-50°	308.9	9.8
50°-60°	284.6	9.0
60°-70°	230.0	7.3
70°-80°	154.0	4.9
80°-90°	80.7	2.6
90°-100°	59.0	1.9
100°-110°	120.1	3.8
110°-120°	180.1	5.7
120°-130°	215.2	6.8
130°-140°	223.5	7.1
140°-150°	205.7	6.5
150°-160°	165.5	5.3
160°-170°	107.0	3.4
170°-180°	36.9	1.2
0°-30°	481.6	15.3
0°-40°	780.4	24.8
0°-60°	1373.8	43.6
0°-90°	1838.6	58.3
90°-120°	359.1	11.4
90°-150°	1003.6	31.8
90°-180°	1313.0	41.7
0°-180°	3151.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	632	630	626	631	631	60
15°	603	604	600	603	601	170
25°	548	550	546	548	546	252
35°	474	478	477	479	479	297
45°	391	398	401	405	406	302
55°	300	310	320	327	330	268
65°	207	221	236	245	248	205
75°	114	130	150	162	165	121
85°	34	55	76	89	95	36
90°	10	32	55	71	76	7
95°	24	39	50	64	69	27
105°	90	102	120	132	136	96
115°	163	169	185	195	197	161
125°	229	231	242	251	254	204
135°	283	285	288	295	297	218
145°	328	328	328	331	332	205
155°	360	359	359	360	358	166
165°	380	379	379	380	378	107
175°	389	387	387	389	387	37
180°	389	389	389	389	389	



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CATALOG NUMBER: S125DIP-S610D365U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9
2.5°	633.3	633.1	632.9	632.7	632.4	631.9	631.2	630.4	629.7	628.8	629.7
5°	631.9	631.5	631.3	631.0	630.7	630.1	629.2	628.2	627.2	626.2	627.4
7.5°	626.2	626.1	626.1	625.9	625.8	625.3	624.3	623.3	622.3	621.3	622.2
10°	621.3	621.3	621.3	621.3	621.3	620.8	619.6	618.6	617.4	616.4	617.3
12.5°	614.4	614.5	614.6	614.7	614.8	614.4	613.5	612.7	611.8	610.9	611.6
15°	603.3	603.5	603.6	603.7	603.9	603.5	602.5	601.5	600.6	599.7	600.5
17.5°	589.0	589.2	589.5	589.8	590.1	589.7	588.8	587.8	586.9	585.9	586.5
20°	578.5	578.9	579.1	579.4	579.7	579.4	578.4	577.4	576.4	575.4	575.8
22.5°	566.7	567.2	567.7	568.2	568.7	568.3	567.3	566.2	565.2	564.1	564.6
25°	548.2	548.6	549.0	549.4	549.8	549.7	548.9	548.0	547.1	546.3	546.9
27.5°	527.7	528.2	528.9	529.5	530.1	529.9	529.0	528.1	527.1	526.2	526.5
30°	512.3	513.1	514.0	514.8	515.6	515.6	514.8	514.0	513.1	512.3	512.6
32.5°	498.4	499.1	499.9	500.6	501.2	501.3	500.8	500.1	499.5	498.9	499.2
35°	474.5	475.5	476.5	477.4	478.3	478.7	478.3	477.8	477.4	477.0	477.4
37.5°	450.6	451.5	452.3	453.2	454.1	454.4	454.4	454.2	454.0	454.0	454.4
40°	434.2	435.4	436.4	437.6	438.6	439.1	439.0	438.9	438.7	438.5	439.1
42.5°	416.4	417.8	419.2	420.7	422.2	423.0	423.3	423.6	423.9	424.2	424.9
45°	390.9	392.4	393.9	395.4	397.0	398.0	398.8	399.4	400.1	400.8	401.8
47.5°	364.8	366.2	367.5	368.9	370.4	371.6	372.8	374.0	375.2	376.3	377.8
50°	346.9	348.4	349.9	351.5	352.9	354.5	356.0	357.5	359.0	360.5	362.1
52.5°	328.1	329.9	331.7	333.6	335.4	337.3	339.2	341.0	342.8	344.6	346.3
55°	300.4	302.6	304.8	307.0	309.2	311.4	313.6	315.8	318.0	320.2	321.8
57.5°	272.2	274.8	277.4	280.1	282.7	285.4	287.9	290.4	292.9	295.5	297.2
60°	253.4	256.1	258.9	261.6	264.4	267.1	269.9	272.6	275.4	278.1	280.2
62.5°	235.1	237.7	240.5	243.3	246.1	248.9	251.8	254.9	257.8	260.8	263.1
65°	206.9	210.1	213.2	216.4	219.6	222.8	226.1	229.4	232.7	236.0	238.1
67.5°	180.4	183.4	186.5	189.6	192.6	195.8	199.2	202.5	205.9	209.3	211.7
70°	161.0	164.2	167.4	170.6	173.7	177.1	180.7	184.3	187.8	191.4	194.0
72.5°	142.2	145.5	148.8	152.1	155.3	158.9	162.8	166.7	170.6	174.6	177.4
75°	114.0	117.6	121.2	124.7	128.3	132.3	136.7	141.1	145.5	149.9	152.6
77.5°	86.8	91.0	95.1	99.2	103.4	107.5	111.8	116.0	120.3	124.5	127.5
80°	70.0	74.1	78.3	82.4	86.5	90.9	95.6	100.3	104.9	109.7	112.7
82.5°	54.6	58.9	63.3	67.7	72.1	76.6	81.4	86.2	91.0	95.8	98.7
85°	34.1	38.6	43.1	47.7	52.3	56.9	61.7	66.5	71.3	76.2	79.2
87.5°	19.4	23.9	28.4	32.9	37.4	42.1	46.8	51.6	56.3	61.1	64.3
90°	10.2	15.1	20.1	24.9	29.8	34.9	40.0	45.2	50.3	55.4	58.9
92.5°	13.4	17.0	20.8	24.5	28.2	32.7	37.8	43.0	48.3	53.4	56.8
95°	24.5	27.9	31.2	34.7	38.0	40.8	43.1	45.3	47.6	49.8	53.2
97.5°	41.6	45.2	48.8	52.3	55.8	57.5	57.2	56.9	56.6	56.3	57.4
100°	55.0	58.0	61.1	64.2	67.3	71.2	75.8	80.5	85.1	89.8	83.2
102.5°	68.5	71.4	74.4	77.3	80.1	83.8	88.3	92.8	97.2	101.7	102.6
105°	90.3	92.8	95.2	97.7	100.1	103.5	107.5	111.7	115.9	119.9	122.7
107.5°	113.0	114.8	116.7	118.5	120.4	123.4	127.5	131.6	135.7	139.8	142.5
110°	127.7	129.3	131.0	132.6	134.3	137.1	141.1	145.0	149.0	153.0	155.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	141.9	143.5	145.0	146.4	147.9	150.5	154.3	158.2	162.0	165.8	168.0
115°	162.8	164.1	165.3	166.6	168.0	170.4	174.1	177.7	181.3	185.0	187.2
117.5°	184.3	185.0	185.6	186.2	186.9	189.0	192.6	196.2	199.8	203.5	205.5
120°	198.2	198.5	198.9	199.3	199.6	201.5	204.8	208.1	211.5	214.9	217.1
122.5°	209.9	210.3	210.8	211.2	211.7	213.4	216.6	219.7	222.9	226.1	228.1
125°	228.7	229.0	229.3	229.7	229.9	231.5	234.2	237.0	239.8	242.5	244.4
127.5°	246.1	246.3	246.5	246.7	246.9	248.1	250.3	252.5	254.7	256.9	258.9
130°	257.2	257.4	257.6	257.7	258.0	259.0	261.0	263.0	265.0	267.0	268.7
132.5°	267.7	268.2	268.5	268.8	269.1	270.0	271.3	272.7	274.0	275.4	277.3
135°	283.4	283.6	283.9	284.1	284.4	284.9	285.8	286.6	287.4	288.3	289.9
137.5°	297.7	297.9	298.2	298.4	298.6	298.9	299.3	299.6	299.9	300.3	302.0
140°	306.7	306.8	307.0	307.0	307.2	307.3	307.4	307.4	307.5	307.6	309.2
142.5°	315.2	315.2	315.1	315.1	315.1	315.1	315.3	315.4	315.4	315.6	316.9
145°	327.8	327.8	327.7	327.7	327.7	327.7	327.7	327.7	327.7	327.7	328.4
147.5°	338.0	338.0	338.0	337.9	337.9	337.9	338.0	338.1	338.2	338.3	338.6
150°	345.0	344.9	344.7	344.5	344.5	344.5	344.5	344.7	344.9	345.0	345.1
152.5°	351.6	351.4	351.1	350.8	350.5	350.4	350.6	350.7	350.8	351.0	351.1
155°	360.3	359.9	359.5	359.1	358.7	358.6	358.7	358.8	359.0	359.1	359.3
157.5°	366.9	366.6	366.4	366.2	366.0	365.8	365.8	365.9	365.9	365.9	366.1
160°	371.5	371.1	370.7	370.3	370.0	369.8	369.8	369.9	370.0	370.1	370.3
162.5°	375.2	374.8	374.4	374.0	373.7	373.5	373.6	373.6	373.7	373.7	374.1
165°	380.1	379.8	379.4	379.0	378.6	378.5	378.5	378.5	378.6	378.7	379.0
167.5°	383.8	383.4	383.0	382.6	382.2	382.0	382.1	382.2	382.3	382.3	382.8
170°	385.9	385.5	385.0	384.6	384.1	383.9	384.0	384.0	384.1	384.2	384.7
172.5°	387.3	386.9	386.4	386.0	385.5	385.3	385.4	385.6	385.6	385.8	386.2
175°	388.7	388.4	388.0	387.6	387.3	387.1	387.1	387.2	387.3	387.3	387.8
177.5°	389.5	389.1	388.8	388.6	388.2	388.1	388.2	388.2	388.2	388.3	388.7
180°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7



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CATALOG NUMBER: S125DIP-S610D365U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9
2.5°	630.4	631.2	631.9	632.3	632.2	632.1	631.9	631.9
5°	628.4	629.6	630.6	631.1	631.0	630.9	630.7	630.6
7.5°	623.2	624.2	625.2	625.6	625.4	625.3	625.2	625.0
10°	618.3	619.2	620.2	620.6	620.5	620.4	620.2	620.0
12.5°	612.4	613.1	613.9	614.1	613.7	613.3	613.0	612.6
15°	601.3	602.1	602.9	603.1	602.5	601.9	601.4	600.9
17.5°	587.2	587.7	588.4	588.6	588.2	587.9	587.6	587.3
20°	576.3	576.7	577.2	577.3	577.3	577.3	577.3	577.3
22.5°	565.1	565.7	566.1	566.2	565.9	565.6	565.2	564.9
25°	547.5	548.0	548.5	548.5	547.8	547.1	546.4	545.8
27.5°	526.9	527.3	527.7	527.7	527.5	527.3	527.0	526.8
30°	512.8	513.1	513.4	513.5	513.3	513.1	513.1	512.9
32.5°	499.5	499.7	500.0	500.1	499.9	499.8	499.7	499.5
35°	477.8	478.3	478.7	478.8	478.8	478.8	478.8	478.8
37.5°	455.0	455.6	456.2	456.4	456.3	456.2	456.2	456.2
40°	439.7	440.3	440.8	441.2	441.5	441.7	442.1	442.3
42.5°	425.5	426.2	426.8	427.2	427.3	427.3	427.4	427.5
45°	402.7	403.7	404.6	405.2	405.4	405.4	405.6	405.8
47.5°	379.2	380.6	382.0	382.9	383.2	383.4	383.8	384.1
50°	363.5	365.1	366.6	367.5	367.9	368.4	368.8	369.2
52.5°	347.9	349.5	351.1	352.1	352.5	352.7	353.0	353.4
55°	323.3	324.8	326.3	327.3	327.9	328.5	329.0	329.5
57.5°	299.0	300.7	302.4	303.5	303.9	304.4	304.8	305.2
60°	282.3	284.3	286.4	287.6	288.0	288.5	288.9	289.3
62.5°	265.4	267.7	269.9	271.3	271.8	272.4	272.9	273.5
65°	240.1	242.2	244.3	245.6	246.1	246.7	247.2	247.8
67.5°	214.3	216.8	219.2	220.9	221.6	222.3	223.1	223.7
70°	196.7	199.3	201.9	203.6	204.4	205.2	206.1	206.9
72.5°	180.3	183.0	185.9	187.6	188.3	188.8	189.5	190.0
75°	155.4	158.2	160.9	162.7	163.3	164.0	164.7	165.4
77.5°	130.5	133.6	136.6	138.4	138.9	139.5	140.1	140.6
80°	115.7	118.7	121.7	123.5	124.1	124.7	125.2	125.7
82.5°	101.6	104.5	107.5	109.4	110.4	111.4	112.3	113.3
85°	82.3	85.3	88.3	90.3	91.5	92.5	93.7	94.7
87.5°	67.6	70.8	74.0	76.1	77.2	78.2	79.2	80.1
90°	62.4	65.9	69.4	71.7	72.8	73.9	75.2	76.3
92.5°	60.2	63.6	66.9	69.1	70.2	71.3	72.3	73.4
95°	56.5	59.8	63.2	65.4	66.4	67.3	68.2	69.2
97.5°	58.5	59.5	60.7	61.6	62.6	63.5	64.5	65.4
100°	76.5	69.9	63.2	60.2	60.7	61.3	61.9	62.5
102.5°	103.6	104.6	105.6	104.3	100.8	97.2	93.7	90.2
105°	125.5	128.2	130.9	132.8	133.7	134.6	135.5	136.4
107.5°	145.3	148.1	150.7	152.5	153.1	153.8	154.4	155.1
110°	157.9	160.3	162.7	164.4	165.5	166.5	167.5	168.6



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CATALOG NUMBER: S125DIP-S610D365U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	170.3	172.6	174.9	176.4	177.3	178.1	179.0	179.9
115°	189.4	191.6	193.9	195.2	195.6	196.1	196.5	197.0
117.5°	207.5	209.5	211.5	212.9	213.7	214.4	215.2	216.0
120°	219.3	221.5	223.7	225.1	225.6	226.1	226.6	227.1
122.5°	230.2	232.4	234.5	235.7	236.2	236.7	237.1	237.6
125°	246.4	248.3	250.3	251.5	252.0	252.5	253.0	253.5
127.5°	260.7	262.6	264.6	265.6	266.0	266.3	266.6	266.9
130°	270.4	272.1	273.9	275.0	275.3	275.7	276.1	276.5
132.5°	279.2	281.0	282.9	284.0	284.3	284.5	284.8	285.0
135°	291.6	293.3	294.9	295.9	296.2	296.5	296.8	297.1
137.5°	303.6	305.2	306.9	307.9	308.1	308.3	308.5	308.8
140°	310.9	312.5	314.1	315.0	315.2	315.4	315.6	315.8
142.5°	318.2	319.5	320.9	321.6	321.8	322.0	322.1	322.3
145°	329.2	330.0	330.7	331.2	331.3	331.5	331.7	331.8
147.5°	338.8	339.2	339.5	339.5	339.3	339.1	338.8	338.7
150°	345.2	345.4	345.4	345.4	345.0	344.6	344.2	343.9
152.5°	351.2	351.3	351.5	351.3	350.9	350.4	350.0	349.6
155°	359.5	359.6	359.9	359.7	359.2	358.7	358.2	357.7
157.5°	366.3	366.5	366.7	366.6	366.1	365.5	365.0	364.5
160°	370.6	370.8	371.0	371.0	370.4	369.9	369.4	368.9
162.5°	374.5	374.8	375.2	375.0	374.5	373.9	373.4	372.8
165°	379.4	379.8	380.3	380.2	379.7	379.1	378.6	378.1
167.5°	383.3	383.7	384.2	384.1	383.5	382.9	382.4	381.8
170°	385.1	385.7	386.2	386.2	385.6	385.1	384.4	383.8
172.5°	386.7	387.2	387.6	387.6	387.0	386.4	385.8	385.2
175°	388.3	388.9	389.4	389.4	388.7	388.2	387.6	387.0
177.5°	389.1	389.4	389.7	389.7	389.3	388.9	388.5	388.1
180°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7

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