

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: P333190-935

Luminaire Tested: **S125DIP-S610D1035U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333190-935
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-S610D1035U935-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5630.4 lumens
Efficiency: N/A
Efficacy: 126.5 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-Indirect

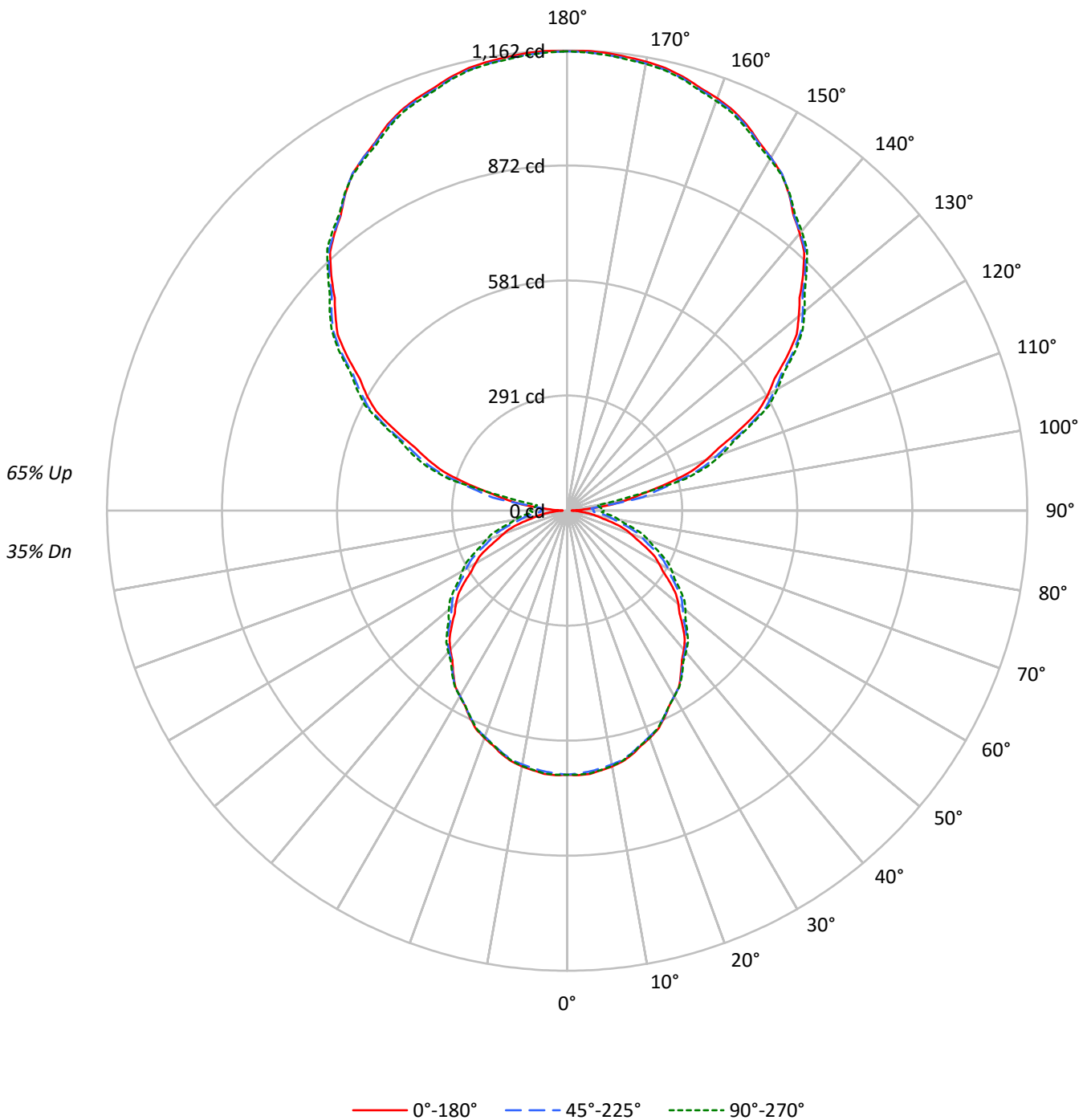
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	103	103	103	103	93	93	93	93	75	75	75		58	58	58		42	42	42	35
1	94	89	85	82	84	81	77	74	65	62	60		50	48	47		36	35	34	28
2	85	78	72	66	77	70	65	61	56	53	49		43	41	39		32	30	28	23
3	78	68	61	55	70	62	55	50	49	45	41		38	35	32		28	26	24	19
4	71	60	52	46	64	54	48	42	44	39	35		34	30	28		25	22	21	16
5	65	53	45	39	58	48	41	36	39	34	30		30	27	24		22	20	18	14
6	60	48	40	34	54	43	36	31	35	30	26		27	24	21		20	18	16	12
7	55	43	35	30	49	39	32	27	32	26	23		25	21	18		18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20		23	19	16		17	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18		21	17	14		15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16		19	15	13		14	12	10	8

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	1.1
10°-20°	179.1	3.2
20°-30°	266.4	4.7
30°-40°	315.5	5.6
40°-50°	326.2	5.8
50°-60°	300.5	5.3
60°-70°	242.9	4.3
70°-80°	162.7	2.9
80°-90°	86.8	1.5
90°-100°	89.5	1.6
100°-110°	294.6	5.2
110°-120°	494.5	8.8
120°-130°	617.8	11.0
130°-140°	656.0	11.7
140°-150°	611.5	10.9
150°-160°	493.7	8.8
160°-170°	319.3	5.7
170°-180°	110.1	2.0
0°-30°	508.6	9.0
0°-40°	824.1	14.6
0°-60°	1450.8	25.8
0°-90°	1943.2	34.5
90°-120°	878.6	15.6
90°-150°	2764.0	49.1
90°-180°	3687.0	65.5
0°-180°	5630.4	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	39	67	86	94	9
95°	58	71	62	79	85	69
105°	259	273	292	305	309	274
115°	478	488	505	513	512	474
125°	677	683	696	703	704	605
135°	843	847	850	857	855	650
145°	976	977	978	981	979	610
155°	1075	1070	1071	1073	1067	495
165°	1134	1129	1130	1134	1128	320
175°	1160	1155	1155	1161	1154	110
180°	1160	1160	1160	1160	1160	



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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°	20.6	25.6	30.5	35.5	40.4	45.5	50.7	55.9	61.1	66.3	69.9
90°	11.4	17.5	23.7	29.9	36.1	42.3	48.6	54.8	61.1	67.4	71.7
92.5°	22.6	25.9	29.1	32.4	35.6	40.3	46.6	52.8	59.1	65.3	69.5
95°	57.5	60.7	63.9	67.2	70.3	70.8	68.4	66.1	63.8	61.5	65.7
97.5°	110.0	114.4	118.9	123.3	127.8	125.2	115.5	106.0	96.3	86.8	84.5
100°	150.8	154.4	158.0	161.6	165.2	169.8	175.2	180.6	186.1	191.5	166.0
102.5°	192.2	195.7	199.3	202.9	206.4	210.7	215.7	220.7	225.7	230.7	228.2
105°	258.6	261.7	264.8	267.9	271.0	274.7	279.1	283.4	287.8	292.1	295.1
107.5°	327.7	329.6	331.6	333.6	335.5	338.8	343.4	348.0	352.6	357.1	360.1
110°	372.6	374.3	376.0	377.7	379.5	382.6	387.0	391.5	396.0	400.5	402.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	415.2	417.0	418.9	420.7	422.6	425.6	429.8	433.9	438.2	442.3	444.3
115°	478.5	480.4	482.4	484.4	486.4	489.3	493.3	497.3	501.3	505.2	507.0
117.5°	544.0	544.7	545.3	545.9	546.6	549.0	553.3	557.6	561.9	566.2	567.7
120°	585.3	585.5	585.7	586.0	586.3	588.3	592.3	596.2	600.1	604.0	606.1
122.5°	621.2	622.2	623.0	624.0	624.9	627.2	630.6	634.1	637.7	641.1	643.1
125°	677.4	678.6	679.8	681.1	682.3	684.3	687.2	690.1	693.0	695.9	697.5
127.5°	730.6	731.4	732.3	733.1	733.8	735.4	737.7	739.9	742.2	744.5	746.2
130°	763.6	764.5	765.3	766.0	766.9	768.4	770.6	772.8	775.1	777.3	778.8
132.5°	796.2	797.2	798.3	799.4	800.5	801.6	802.7	803.8	805.0	806.2	808.0
135°	842.9	844.0	844.9	845.9	847.0	847.7	848.4	849.0	849.6	850.3	851.8
137.5°	886.0	886.8	887.7	888.6	889.5	890.0	890.1	890.3	890.4	890.6	892.3
140°	913.6	914.0	914.4	914.8	915.2	915.3	915.2	915.2	915.2	915.2	917.1
142.5°	939.1	939.2	939.3	939.4	939.5	939.7	940.0	940.3	940.6	940.9	942.4
145°	976.4	976.6	976.9	977.1	977.3	977.5	977.5	977.5	977.5	977.5	978.4
147.5°	1008.4	1008.3	1008.2	1008.1	1008.1	1008.1	1008.4	1008.7	1008.8	1009.1	1009.5
150°	1029.1	1028.6	1028.3	1027.9	1027.5	1027.5	1027.9	1028.3	1028.6	1029.1	1029.4
152.5°	1049.0	1048.2	1047.3	1046.5	1045.6	1045.4	1045.8	1046.1	1046.5	1046.9	1047.3
155°	1074.6	1073.5	1072.3	1071.2	1070.1	1069.6	1070.1	1070.4	1070.7	1071.2	1071.8
157.5°	1094.3	1093.6	1093.0	1092.4	1091.7	1091.3	1091.3	1091.4	1091.4	1091.5	1092.1
160°	1108.1	1107.0	1105.9	1104.7	1103.5	1103.0	1103.3	1103.5	1103.6	1103.8	1104.6
162.5°	1119.1	1118.0	1116.8	1115.7	1114.6	1114.0	1114.2	1114.5	1114.7	1114.8	1115.9
165°	1133.9	1132.7	1131.6	1130.5	1129.4	1128.9	1129.0	1129.2	1129.5	1129.6	1130.8
167.5°	1145.0	1143.8	1142.5	1141.3	1140.2	1139.7	1139.9	1140.1	1140.2	1140.5	1141.9
170°	1151.1	1149.8	1148.4	1147.1	1145.7	1145.2	1145.4	1145.6	1145.7	1146.0	1147.5
172.5°	1155.2	1153.9	1152.5	1151.2	1149.9	1149.4	1149.7	1150.0	1150.4	1150.7	1152.1
175°	1159.7	1158.6	1157.4	1156.2	1155.1	1154.7	1154.9	1155.0	1155.2	1155.4	1156.9
177.5°	1161.7	1160.9	1159.9	1159.0	1158.1	1157.7	1157.9	1158.0	1158.2	1158.3	1159.4
180°	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7



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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°	73.4	77.0	80.5	82.8	83.9	85.1	86.2	87.3
90°	76.0	80.3	84.6	87.6	89.1	90.7	92.3	93.9
92.5°	73.7	77.8	82.1	84.8	86.0	87.3	88.6	89.9
95°	69.8	74.0	78.1	80.7	81.7	82.7	83.8	84.8
97.5°	82.1	79.8	77.4	76.8	77.7	78.8	79.7	80.8
100°	140.6	115.2	89.8	77.1	77.2	77.4	77.5	77.6
102.5°	225.8	223.3	220.8	213.5	201.4	189.3	177.2	165.1
105°	298.0	300.9	303.8	305.7	306.5	307.3	308.2	308.9
107.5°	362.9	365.8	368.8	370.4	370.7	371.1	371.3	371.7
110°	404.8	407.0	409.1	410.9	412.1	413.3	414.5	415.7



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CATALOG NUMBER: S125DIP-S610D1035U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	446.2	448.1	450.0	451.3	452.1	452.9	453.6	454.3
115°	508.9	510.7	512.6	513.4	513.2	512.9	512.6	512.3
117.5°	569.1	570.7	572.1	573.1	573.6	574.1	574.5	575.1
120°	608.2	610.3	612.3	613.4	613.3	613.2	613.1	613.0
122.5°	645.1	647.0	649.0	649.9	649.6	649.4	649.2	648.9
125°	699.0	700.6	702.1	703.0	703.2	703.4	703.4	703.6
127.5°	748.0	749.7	751.4	752.0	751.4	750.9	750.3	749.7
130°	780.2	781.7	783.2	783.8	783.5	783.3	783.1	782.8
132.5°	810.0	811.9	813.8	814.6	814.2	813.9	813.6	813.2
135°	853.3	854.8	856.4	856.9	856.4	856.0	855.6	855.2
137.5°	894.1	896.0	897.8	898.5	898.0	897.6	897.2	896.8
140°	919.1	921.1	923.1	923.8	923.3	922.6	922.0	921.5
142.5°	943.8	945.3	946.7	947.1	946.6	946.0	945.5	944.9
145°	979.3	980.2	981.1	981.3	980.8	980.2	979.6	979.0
147.5°	1010.0	1010.5	1010.9	1010.6	1009.5	1008.4	1007.3	1006.2
150°	1029.8	1030.2	1030.5	1030.1	1028.7	1027.3	1025.9	1024.5
152.5°	1047.7	1048.1	1048.4	1047.9	1046.6	1045.3	1044.0	1042.6
155°	1072.3	1072.9	1073.5	1073.0	1071.4	1069.9	1068.4	1066.9
157.5°	1092.7	1093.3	1093.9	1093.5	1091.9	1090.4	1088.8	1087.4
160°	1105.4	1106.1	1106.9	1106.5	1105.0	1103.5	1101.9	1100.4
162.5°	1117.0	1118.0	1119.1	1118.8	1117.1	1115.4	1113.8	1112.1
165°	1131.9	1133.1	1134.2	1134.0	1132.5	1130.9	1129.5	1127.9
167.5°	1143.2	1144.6	1146.0	1145.8	1144.1	1142.4	1140.7	1138.9
170°	1149.0	1150.6	1152.1	1151.9	1150.2	1148.6	1146.9	1145.1
172.5°	1153.5	1154.9	1156.2	1156.1	1154.3	1152.6	1150.9	1149.3
175°	1158.5	1160.0	1161.5	1161.4	1159.7	1158.0	1156.2	1154.5
177.5°	1160.5	1161.6	1162.6	1162.5	1161.3	1160.1	1158.9	1157.6
180°	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7

(END OF REPORT)