

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: P333192-930

Luminaire Tested: **S125DIP-S610D1035U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333192-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S610D1035U930-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4986.6 lumens
Efficiency: N/A
Efficacy: 112.1 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

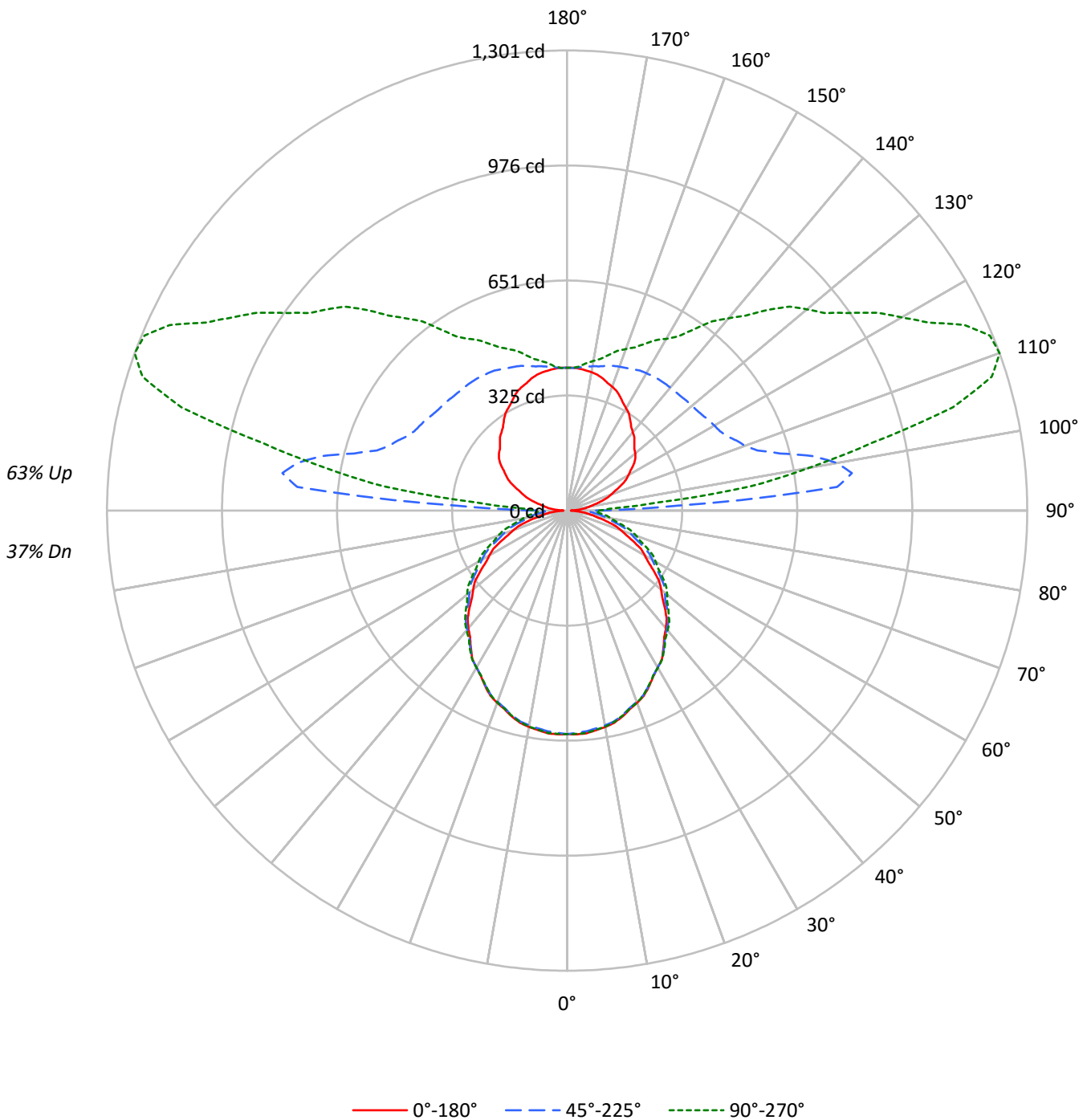
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36	30
2	86	78	72	67	77	71	66	61	57	53	50	45	42	40	33	31	30	25
3	78	68	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	21
4	71	60	52	46	64	55	48	43	45	39	35	35	31	28	26	24	22	18
5	65	54	46	40	59	49	42	36	40	34	30	31	27	24	23	21	19	15
6	60	48	40	34	54	44	37	31	36	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	26	22	19	19	17	14	12
8	51	39	31	26	46	36	29	24	29	24	20	23	19	17	18	15	13	10
9	48	36	28	23	43	33	26	21	27	22	18	21	18	15	16	14	12	9
10	44	33	25	21	40	30	23	19	25	20	16	20	16	13	15	12	11	8

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	1.2
10°-20°	169.6	3.4
20°-30°	252.2	5.1
30°-40°	298.8	6.0
40°-50°	308.9	6.2
50°-60°	284.6	5.7
60°-70°	230.0	4.6
70°-80°	154.0	3.1
80°-90°	82.1	1.6
90°-100°	337.4	6.8
100°-110°	662.1	13.3
110°-120°	612.5	12.3
120°-130°	491.0	9.8
130°-140°	389.4	7.8
140°-150°	290.8	5.8
150°-160°	203.9	4.1
160°-170°	120.2	2.4
170°-180°	39.1	0.8
0°-30°	481.6	9.7
0°-40°	780.4	15.6
0°-60°	1373.8	27.6
0°-90°	1840.0	36.9
90°-120°	1612.0	32.3
90°-150°	2783.3	55.8
90°-180°	3147.0	63.1
0°-180°	4986.6	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°	11	37	64	82	88	8
95°	35	104	766	386	254	35
105°	98	145	624	1208	1129	103
115°	168	207	498	1056	1240	165
125°	230	270	468	836	974	204
135°	268	322	456	694	802	208
145°	312	356	452	567	626	195
155°	355	382	441	499	520	163
165°	387	398	423	449	456	109
175°	403	403	406	411	409	38
180°	404	404	404	404	404	



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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°	19.5	24.1	28.8	33.5	38.2	43.1	47.9	53.0	57.8	62.8	66.1
90°	10.8	16.0	22.0	28.0	34.1	40.2	45.7	52.0	57.5	63.8	67.8
92.5°	18.8	25.0	36.0	50.1	68.2	96.4	145.6	224.9	310.6	311.2	264.3
95°	34.9	39.3	49.4	62.0	83.4	124.2	216.0	399.7	629.0	766.3	753.9
97.5°	51.9	56.1	63.9	76.1	95.4	125.6	187.8	323.5	563.0	812.2	937.8
100°	63.8	68.3	74.4	86.3	104.7	132.7	184.3	294.6	504.0	774.6	981.0
102.5°	77.0	80.6	85.9	98.2	115.0	142.3	188.5	281.7	459.2	710.8	951.5
105°	97.5	99.7	106.0	116.3	131.6	157.5	197.5	274.0	414.1	624.1	860.5
107.5°	117.6	121.2	126.9	135.4	150.8	174.3	212.9	278.9	393.7	564.0	768.3
110°	132.1	135.4	140.3	149.3	163.1	187.0	224.3	284.3	386.6	535.3	715.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	147.1	150.0	153.9	162.7	176.1	199.2	235.0	291.6	384.7	517.7	675.6
115°	168.1	170.7	174.1	182.4	195.6	218.2	251.9	302.6	384.4	497.8	631.4
117.5°	187.0	190.1	193.4	201.3	215.8	237.5	269.4	315.7	386.9	486.6	603.6
120°	200.1	202.9	206.6	214.3	228.6	250.7	282.3	324.6	390.4	480.7	588.0
122.5°	213.2	215.2	218.0	225.5	240.8	262.9	294.4	334.5	393.1	475.5	574.2
125°	230.4	231.9	235.8	243.0	258.3	280.8	310.4	348.1	398.1	468.4	555.2
127.5°	243.3	245.6	250.6	259.8	276.1	298.3	326.4	360.9	404.4	463.6	537.6
130°	251.7	254.0	260.4	270.8	287.8	309.8	337.0	369.9	408.4	460.8	526.2
132.5°	257.7	260.8	268.6	280.5	298.2	320.1	346.7	377.2	412.7	458.9	516.4
135°	268.2	271.3	281.0	293.8	310.8	333.1	359.4	387.2	418.2	455.8	504.0
137.5°	281.4	283.7	292.8	305.7	322.3	345.1	368.5	394.8	423.9	454.6	493.3
140°	288.7	291.1	300.9	314.0	329.5	351.5	375.2	399.7	425.9	453.8	487.8
142.5°	297.8	299.5	308.5	321.5	336.1	356.8	379.1	402.3	427.1	453.4	483.4
145°	311.5	313.0	321.0	332.2	346.7	365.4	386.6	406.9	428.9	452.5	477.6
147.5°	325.2	326.2	333.2	343.8	356.4	372.9	391.5	409.9	429.7	450.4	472.1
150°	333.7	335.3	341.0	351.6	363.0	376.8	394.8	411.8	429.7	448.4	468.0
152.5°	342.8	343.8	348.9	358.1	368.8	381.4	398.0	413.1	429.1	445.9	463.4
155°	354.8	354.8	359.7	367.9	376.0	387.4	401.2	414.3	427.3	441.2	455.8
157.5°	365.6	365.4	369.3	376.3	383.5	392.2	404.0	415.1	425.2	436.3	448.6
160°	372.8	371.9	375.2	380.9	387.4	394.8	405.3	415.1	423.2	433.0	442.8
162.5°	378.6	377.8	381.1	386.1	391.3	397.4	406.6	414.4	421.3	429.1	437.6
165°	387.4	385.8	388.2	392.3	395.6	400.5	406.9	413.4	418.3	423.2	429.7
167.5°	393.3	392.5	394.0	396.2	398.5	401.5	406.9	411.5	413.8	417.5	422.1
170°	397.2	396.4	397.2	398.8	400.5	402.8	406.9	410.2	411.8	414.3	417.5
172.5°	399.8	398.4	399.2	400.7	401.7	402.8	406.3	408.9	409.2	410.3	412.9
175°	402.8	401.2	402.0	402.8	402.8	402.8	405.3	406.9	406.1	406.1	406.9
177.5°	404.3	403.0	403.0	403.7	403.0	403.0	404.3	405.0	403.7	403.7	404.3
180°	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7



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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°	69.5	72.8	76.1	78.5	79.5	80.5	81.6	82.5
90°	71.7	75.7	79.7	83.4	84.4	85.4	87.2	88.1
92.5°	199.2	162.7	139.8	129.8	120.3	119.4	119.2	118.8
95°	636.5	515.8	418.7	352.3	295.5	272.1	266.5	254.5
97.5°	919.4	835.5	740.9	647.8	598.4	553.8	531.1	521.6
100°	1046.5	1009.5	928.5	845.8	790.4	732.7	703.4	691.2
102.5°	1087.9	1115.3	1077.9	1022.4	963.1	922.3	890.4	881.4
105°	1058.6	1172.8	1211.4	1204.3	1179.2	1153.3	1138.0	1129.2
107.5°	963.8	1115.2	1209.9	1254.2	1268.3	1268.9	1264.4	1258.7
110°	893.8	1051.1	1168.4	1239.4	1277.0	1293.4	1300.1	1301.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	838.2	987.6	1106.1	1189.4	1243.9	1271.5	1286.5	1293.4
115°	768.1	896.7	1010.7	1101.1	1165.4	1205.3	1228.9	1240.3
117.5°	721.5	832.7	931.1	1014.1	1078.5	1119.8	1143.4	1150.8
120°	696.2	796.1	888.0	961.2	1022.3	1062.2	1085.0	1092.3
122.5°	676.4	769.1	851.1	919.7	974.2	1010.9	1033.6	1040.3
125°	647.8	733.0	806.0	866.1	912.3	946.4	965.0	973.8
127.5°	618.6	698.1	766.2	822.5	864.6	894.9	912.6	917.0
130°	600.5	674.2	739.6	793.8	835.1	862.7	879.6	885.3
132.5°	582.3	651.3	710.9	763.0	804.4	831.8	847.3	853.5
135°	557.9	615.9	669.8	717.4	753.9	781.4	796.8	802.3
137.5°	537.4	584.5	629.4	669.8	702.5	727.5	741.5	747.5
140°	525.9	565.7	604.7	639.9	670.6	692.3	705.1	709.6
142.5°	516.1	549.8	583.3	613.8	639.9	658.4	670.5	674.5
145°	503.5	529.5	555.4	578.0	598.1	612.5	622.0	625.7
147.5°	492.2	512.9	532.6	549.3	565.1	576.4	581.8	583.5
150°	485.9	503.8	519.3	534.0	546.3	556.2	559.6	560.6
152.5°	479.4	495.3	509.5	520.9	531.2	539.0	542.3	543.2
155°	469.6	482.7	494.1	503.0	511.1	516.8	519.3	520.1
157.5°	459.8	470.6	479.4	486.4	492.8	497.4	499.7	499.5
160°	453.3	461.5	469.6	475.3	481.0	485.1	486.7	485.9
162.5°	446.2	453.6	460.5	465.5	469.9	473.4	473.7	473.5
165°	436.3	442.0	446.9	450.9	454.1	455.8	455.8	455.8
167.5°	426.8	430.6	434.3	437.2	438.9	440.3	439.7	439.5
170°	421.6	424.0	426.5	428.1	429.7	430.6	430.6	429.7
172.5°	415.7	418.2	420.0	420.9	421.3	422.7	421.4	420.6
175°	409.4	409.4	411.0	411.0	411.0	411.8	410.2	409.4
177.5°	405.0	405.6	405.6	405.6	405.0	405.6	403.7	403.7
180°	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7

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