

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: P333372

Luminaire Tested: **S125DIW-S610D470U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333372
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: S125DIW-S610D470U835-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275.7 lumens
Efficiency: N/A
Efficacy: 141.6 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

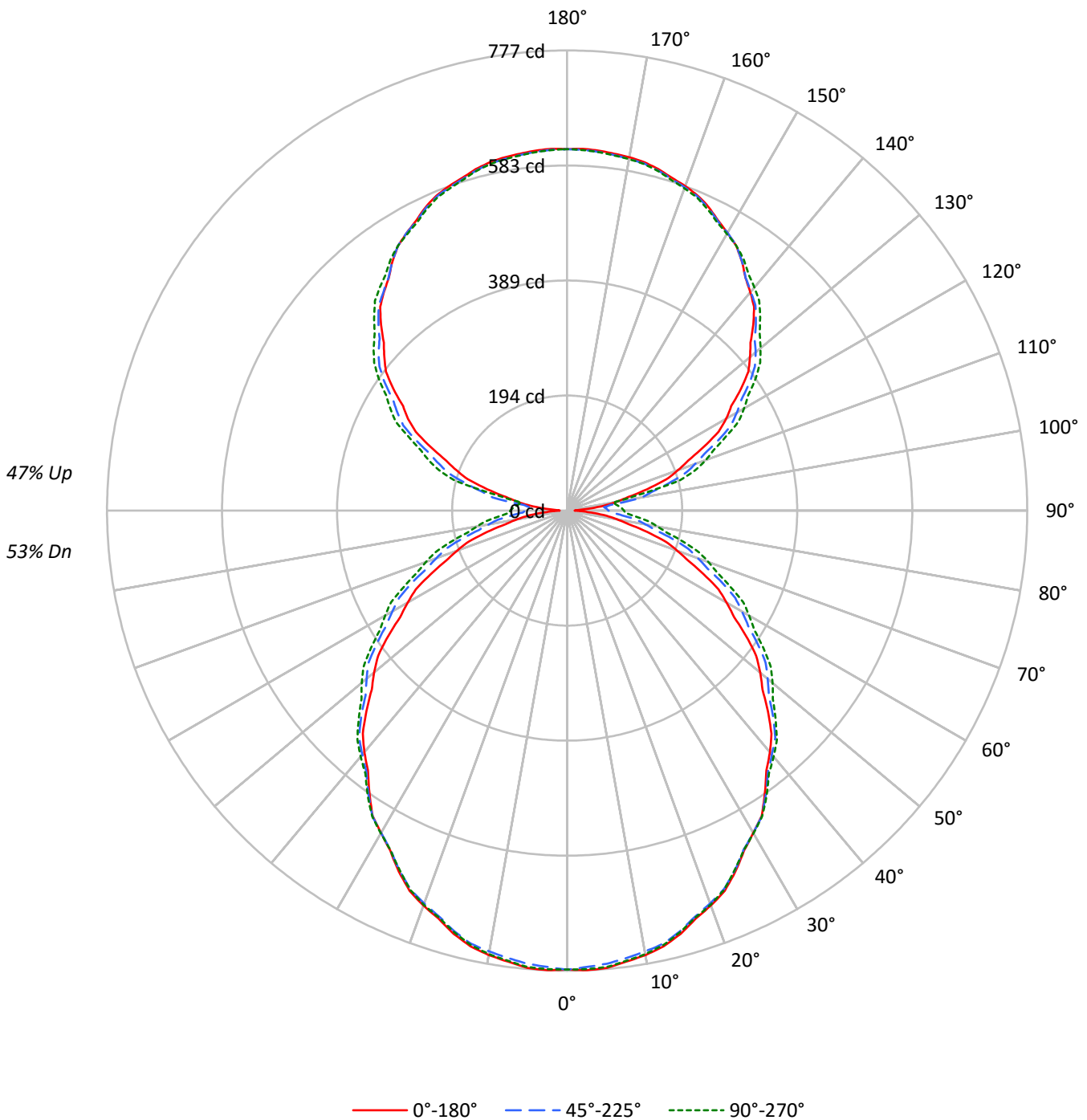
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333372

CATALOG NUMBER: S125DIW-S610D470U835-4F0-1E-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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	93	89	85	90	86	82	79	73	71	68	61	60	58	51	49	48	43
2	89	81	74	69	82	75	69	64	64	59	56	54	50	48	44	42	40	35
3	81	71	63	57	74	66	59	53	56	51	47	47	43	40	39	36	34	29
4	74	62	54	48	68	58	51	45	50	44	39	42	37	34	35	31	29	25
5	68	56	47	41	62	52	44	39	44	38	34	37	33	29	31	28	25	22
6	62	50	41	35	57	46	39	33	40	34	29	34	29	26	28	25	22	19
7	57	45	37	31	53	42	34	29	36	30	26	31	26	23	26	22	19	17
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	24	20	17	15
9	50	37	29	24	46	35	28	23	30	24	21	26	21	18	22	18	16	13
10	46	34	27	22	43	32	25	21	28	22	18	24	19	16	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5005	5005	5005
5°	5015	4912	4928
10°	4980	4825	4817
15°	4920	4720	4677
20°	4840	4590	4536
25°	4745	4451	4363
30°	4630	4298	4206
35°	4523	4158	4062
40°	4413	4010	3916
45°	4289	3884	3788
50°	4172	3746	3674
55°	4029	3616	3540
60°	3875	3468	3404
65°	3713	3314	3250
70°	3527	3103	3093
75°	3237	2899	2899
80°	2857	2653	2687
85°	2502	2488	2620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.7
10°-20°	208.0	4.9
20°-30°	309.4	7.2
30°-40°	366.5	8.6
40°-50°	378.9	8.9
50°-60°	349.0	8.2
60°-70°	282.1	6.6
70°-80°	189.0	4.4
80°-90°	99.3	2.3
90°-100°	77.2	1.8
100°-110°	177.2	4.1
110°-120°	275.1	6.4
120°-130°	333.6	7.8
130°-140°	348.9	8.2
140°-150°	322.6	7.5
150°-160°	259.8	6.1
160°-170°	168.0	3.9
170°-180°	58.0	1.4
0°-30°	590.7	13.8
0°-40°	957.1	22.4
0°-60°	1685.1	39.4
0°-90°	2255.4	52.7
90°-120°	529.4	12.4
90°-150°	1534.5	35.9
90°-180°	2020.0	47.2
0°-180°	4275.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	773	768	774	774	73
15°	740	740	736	740	737	208
25°	672	674	670	673	669	309
35°	582	587	585	587	587	364
45°	479	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	300	304	252
75°	140	160	184	198	203	148
85°	42	67	94	110	116	45
90°	13	41	70	89	96	9
95°	36	54	63	81	87	41
105°	140	154	177	191	197	148
115°	254	263	282	293	296	252
125°	358	361	376	386	389	320
135°	444	447	451	459	461	342
145°	514	514	514	518	519	321
155°	566	563	564	565	561	260
165°	597	594	594	597	594	168
175°	610	608	608	611	608	58
180°	610	610	610	610	610	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	776.8	776.5	776.3	776.0	775.7	775.1	774.2	773.2	772.3	771.3	772.3
5°	775.0	774.6	774.3	774.0	773.6	772.9	771.7	770.5	769.3	768.1	769.5
7.5°	768.1	768.0	767.9	767.7	767.6	766.9	765.7	764.5	763.3	762.1	763.2
10°	762.1	762.1	762.1	762.1	762.1	761.4	760.0	758.7	757.3	756.0	757.2
12.5°	753.6	753.7	753.8	754.0	754.1	753.6	752.5	751.5	750.4	749.3	750.2
15°	740.0	740.2	740.4	740.5	740.7	740.2	739.0	737.8	736.7	735.5	736.5
17.5°	722.4	722.7	723.1	723.4	723.8	723.3	722.2	721.0	719.8	718.6	719.4
20°	709.6	710.0	710.3	710.7	711.0	710.6	709.4	708.2	707.0	705.8	706.3
22.5°	695.1	695.7	696.3	696.9	697.5	697.1	695.8	694.5	693.2	691.9	692.5
25°	672.4	672.9	673.4	673.9	674.4	674.2	673.2	672.2	671.1	670.1	670.8
27.5°	647.2	647.9	648.7	649.4	650.2	650.0	648.8	647.7	646.5	645.4	645.8
30°	628.3	629.4	630.4	631.4	632.4	632.4	631.4	630.4	629.4	628.3	628.7
32.5°	611.3	612.2	613.1	614.0	614.8	614.9	614.2	613.4	612.7	611.9	612.3
35°	582.0	583.2	584.4	585.5	586.7	587.1	586.6	586.0	585.5	585.0	585.5
37.5°	552.7	553.8	554.8	555.9	557.0	557.4	557.3	557.1	556.9	556.8	557.4
40°	532.6	534.0	535.3	536.7	538.0	538.6	538.4	538.3	538.1	537.9	538.6
42.5°	510.7	512.5	514.2	516.0	517.8	518.8	519.2	519.6	519.9	520.3	521.1
45°	479.4	481.3	483.1	485.0	486.9	488.2	489.1	489.9	490.7	491.6	492.8
47.5°	447.4	449.1	450.8	452.5	454.3	455.8	457.3	458.7	460.2	461.6	463.4
50°	425.5	427.3	429.2	431.1	432.9	434.8	436.6	438.5	440.3	442.2	444.1
52.5°	402.4	404.6	406.9	409.2	411.4	413.7	416.0	418.2	420.5	422.7	424.7
55°	368.5	371.2	373.9	376.6	379.3	382.0	384.7	387.4	390.1	392.8	394.7
57.5°	333.9	337.1	340.3	343.6	346.8	350.0	353.1	356.2	359.3	362.4	364.5
60°	310.8	314.1	317.5	320.9	324.3	327.6	331.0	334.4	337.8	341.1	343.7
62.5°	288.3	291.6	295.0	298.4	301.8	305.3	308.9	312.6	316.2	319.9	322.7
65°	253.8	257.7	261.5	265.4	269.3	273.3	277.3	281.4	285.4	289.5	292.0
67.5°	221.3	225.0	228.7	232.5	236.2	240.2	244.3	248.4	252.5	256.7	259.7
70°	197.5	201.4	205.3	209.2	213.1	217.2	221.6	226.0	230.4	234.8	238.0
72.5°	174.4	178.5	182.5	186.5	190.5	194.9	199.7	204.5	209.3	214.1	217.6
75°	139.8	144.2	148.6	153.0	157.4	162.3	167.7	173.1	178.5	183.9	187.2
77.5°	106.5	111.6	116.7	121.7	126.8	131.9	137.1	142.3	147.5	152.7	156.4
80°	85.9	90.9	96.0	101.1	106.1	111.5	117.3	123.0	128.7	134.5	138.2
82.5°	67.0	72.3	77.7	83.0	88.4	94.0	99.8	105.7	111.6	117.5	121.0
85°	41.8	47.4	52.9	58.5	64.1	69.8	75.7	81.6	87.5	93.5	97.2
87.5°	23.8	29.4	34.9	40.5	46.1	51.8	57.7	63.5	69.4	75.3	79.3
90°	12.6	18.8	25.0	31.2	37.4	43.8	50.2	56.7	63.1	69.5	73.9
92.5°	17.9	22.3	26.8	31.2	35.6	41.1	47.6	54.1	60.6	67.1	71.4
95°	35.7	39.8	43.8	47.9	52.0	55.0	56.9	58.9	60.8	62.7	66.9
97.5°	62.8	67.3	71.8	76.3	80.8	82.0	80.0	78.0	75.9	73.9	74.6
100°	83.9	87.8	91.6	95.4	99.3	104.1	109.9	115.7	121.5	127.3	115.9
102.5°	105.4	109.0	112.7	116.3	120.0	124.6	130.1	135.6	141.1	146.6	147.2
105°	139.8	142.9	146.0	149.2	152.3	156.3	161.4	166.5	171.5	176.6	180.0
107.5°	175.7	178.0	180.3	182.6	184.8	188.5	193.6	198.7	203.7	208.8	212.1
110°	198.9	201.0	203.0	205.0	207.0	210.5	215.5	220.4	225.3	230.2	233.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	221.4	223.2	225.1	227.0	228.8	232.1	236.8	241.5	246.3	251.0	253.7
115°	254.3	256.0	257.6	259.3	261.0	264.1	268.6	273.1	277.6	282.1	284.7
117.5°	288.4	289.1	289.9	290.6	291.4	294.0	298.6	303.1	307.6	312.2	314.5
120°	310.1	310.5	310.9	311.3	311.7	314.0	318.2	322.4	326.5	330.7	333.4
122.5°	328.6	329.3	329.9	330.5	331.1	333.4	337.3	341.1	345.0	348.9	351.5
125°	358.2	358.7	359.2	359.8	360.3	362.3	365.6	369.0	372.4	375.8	378.1
127.5°	385.7	386.1	386.4	386.7	387.1	388.6	391.3	394.0	396.7	399.4	401.7
130°	403.1	403.4	403.8	404.1	404.4	405.8	408.3	410.8	413.2	415.7	417.8
132.5°	419.9	420.4	421.0	421.5	422.1	423.1	424.7	426.3	427.9	429.5	431.9
135°	444.4	444.8	445.3	445.7	446.2	446.9	447.8	448.8	449.8	450.8	452.8
137.5°	467.0	467.4	467.7	468.1	468.5	468.9	469.3	469.7	470.1	470.5	472.5
140°	481.2	481.4	481.6	481.8	482.0	482.1	482.2	482.3	482.3	482.4	484.5
142.5°	494.6	494.6	494.6	494.5	494.5	494.6	494.8	495.0	495.1	495.3	496.9
145°	514.2	514.3	514.3	514.3	514.4	514.4	514.4	514.4	514.4	514.4	515.3
147.5°	530.7	530.6	530.6	530.5	530.5	530.5	530.7	530.8	530.9	531.0	531.4
150°	541.5	541.3	541.1	540.9	540.7	540.7	540.9	541.1	541.3	541.5	541.7
152.5°	552.0	551.6	551.1	550.7	550.2	550.1	550.3	550.5	550.7	550.9	551.1
155°	565.5	564.9	564.3	563.7	563.1	562.9	563.1	563.3	563.5	563.7	564.0
157.5°	575.9	575.5	575.2	574.8	574.4	574.3	574.3	574.3	574.3	574.4	574.7
160°	583.1	582.5	581.9	581.3	580.7	580.5	580.6	580.7	580.8	580.9	581.3
162.5°	588.9	588.3	587.7	587.1	586.5	586.3	586.4	586.5	586.6	586.7	587.2
165°	596.7	596.1	595.5	594.9	594.3	594.0	594.1	594.2	594.3	594.4	595.0
167.5°	602.5	601.9	601.3	600.6	600.0	599.7	599.8	599.9	600.0	600.1	600.9
170°	605.8	605.1	604.3	603.6	602.9	602.6	602.7	602.8	602.9	603.0	603.8
172.5°	607.9	607.2	606.5	605.8	605.1	604.9	605.0	605.2	605.4	605.6	606.3
175°	610.3	609.7	609.1	608.5	607.9	607.6	607.7	607.8	607.9	608.0	608.8
177.5°	611.4	610.9	610.4	609.9	609.4	609.2	609.3	609.4	609.5	609.6	610.1
180°	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	773.2	774.2	775.1	775.5	775.4	775.3	775.1	775.0
5°	770.8	772.2	773.5	774.1	774.0	773.8	773.6	773.5
7.5°	764.4	765.6	766.8	767.3	767.1	767.0	766.8	766.6
10°	758.4	759.5	760.7	761.2	761.1	760.9	760.7	760.5
12.5°	751.1	752.0	753.0	753.2	752.7	752.3	751.9	751.4
15°	737.5	738.5	739.5	739.7	739.0	738.3	737.7	737.0
17.5°	720.2	720.9	721.7	721.9	721.5	721.1	720.7	720.3
20°	706.9	707.4	707.9	708.1	708.1	708.1	708.1	708.1
22.5°	693.1	693.8	694.4	694.5	694.1	693.7	693.3	692.9
25°	671.5	672.2	672.8	672.8	671.9	671.1	670.2	669.4
27.5°	646.3	646.8	647.3	647.3	647.0	646.7	646.4	646.1
30°	629.0	629.4	629.7	629.8	629.6	629.4	629.3	629.1
32.5°	612.6	612.9	613.3	613.4	613.2	613.0	612.9	612.7
35°	586.0	586.6	587.1	587.3	587.3	587.3	587.3	587.3
37.5°	558.1	558.8	559.5	559.8	559.7	559.6	559.6	559.5
40°	539.3	540.0	540.6	541.1	541.5	541.8	542.2	542.5
42.5°	521.9	522.7	523.5	524.0	524.1	524.1	524.2	524.3
45°	493.9	495.1	496.3	497.0	497.2	497.3	497.5	497.7
47.5°	465.1	466.8	468.5	469.6	470.0	470.3	470.7	471.1
50°	445.9	447.8	449.6	450.8	451.3	451.8	452.3	452.8
52.5°	426.7	428.7	430.7	431.9	432.3	432.6	433.0	433.4
55°	396.5	398.4	400.2	401.5	402.2	402.9	403.5	404.2
57.5°	366.7	368.8	370.9	372.2	372.8	373.3	373.8	374.3
60°	346.2	348.7	351.3	352.8	353.3	353.8	354.3	354.8
62.5°	325.5	328.3	331.1	332.8	333.4	334.1	334.7	335.4
65°	294.5	297.1	299.6	301.2	301.9	302.6	303.2	303.9
67.5°	262.8	265.9	268.9	270.9	271.8	272.7	273.6	274.4
70°	241.2	244.4	247.6	249.7	250.7	251.7	252.8	253.8
72.5°	221.1	224.5	228.0	230.1	230.9	231.6	232.4	233.1
75°	190.6	194.0	197.4	199.5	200.3	201.2	202.0	202.9
77.5°	160.1	163.9	167.6	169.8	170.4	171.1	171.8	172.5
80°	141.9	145.6	149.3	151.5	152.2	152.9	153.6	154.2
82.5°	124.6	128.2	131.8	134.2	135.4	136.6	137.8	139.0
85°	100.9	104.6	108.3	110.8	112.2	113.5	114.9	116.2
87.5°	83.3	87.3	91.2	93.8	95.1	96.3	97.6	98.8
90°	78.3	82.7	87.1	90.0	91.5	93.0	94.5	96.0
92.5°	75.6	79.9	84.1	86.9	88.2	89.5	90.9	92.2
95°	71.1	75.4	79.6	82.3	83.5	84.6	85.8	87.0
97.5°	75.3	76.1	76.8	77.7	78.8	80.0	81.1	82.3
100°	104.5	93.0	81.6	76.2	76.8	77.4	78.0	78.6
102.5°	147.8	148.4	148.9	146.3	140.5	134.7	128.8	123.0
105°	183.4	186.7	190.1	192.3	193.4	194.5	195.6	196.7
107.5°	215.5	218.9	222.2	224.3	225.0	225.8	226.5	227.3
110°	236.1	239.0	241.9	244.0	245.2	246.5	247.8	249.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	256.4	259.0	261.7	263.6	264.6	265.7	266.7	267.8
115°	287.3	290.0	292.6	294.1	294.5	295.0	295.4	295.8
117.5°	316.9	319.2	321.6	323.2	324.1	325.0	325.8	326.7
120°	336.1	338.7	341.4	343.0	343.5	344.0	344.5	345.0
122.5°	354.0	356.5	359.1	360.5	361.0	361.4	361.8	362.3
125°	380.4	382.7	385.0	386.4	386.9	387.5	388.0	388.6
127.5°	404.0	406.3	408.5	409.8	410.0	410.3	410.5	410.7
130°	419.8	421.9	423.9	425.1	425.5	425.8	426.2	426.5
132.5°	434.2	436.5	438.8	440.0	440.2	440.4	440.6	440.8
135°	454.8	456.8	458.8	459.9	460.1	460.4	460.6	460.8
137.5°	474.6	476.6	478.6	479.7	479.9	480.0	480.2	480.3
140°	486.5	488.6	490.6	491.7	491.8	491.9	491.9	492.0
142.5°	498.6	500.2	501.8	502.7	502.7	502.8	502.9	503.0
145°	516.3	517.2	518.2	518.7	518.7	518.8	518.9	518.9
147.5°	531.8	532.2	532.6	532.6	532.1	531.7	531.3	530.9
150°	541.9	542.1	542.3	542.1	541.5	540.8	540.2	539.6
152.5°	551.3	551.5	551.7	551.5	550.8	550.1	549.4	548.7
155°	564.3	564.6	564.9	564.6	563.8	563.0	562.2	561.4
157.5°	575.0	575.3	575.6	575.4	574.6	573.8	573.0	572.2
160°	581.7	582.1	582.5	582.3	581.5	580.7	579.9	579.1
162.5°	587.8	588.4	588.9	588.8	587.9	587.0	586.1	585.2
165°	595.7	596.3	596.9	596.8	596.0	595.1	594.3	593.5
167.5°	601.6	602.3	603.0	603.0	602.0	601.1	600.2	599.3
170°	604.6	605.5	606.3	606.2	605.3	604.4	603.5	602.6
172.5°	607.0	607.7	608.5	608.4	607.5	606.6	605.7	604.8
175°	609.6	610.4	611.2	611.2	610.3	609.4	608.5	607.6
177.5°	610.7	611.2	611.8	611.8	611.1	610.5	609.8	609.2
180°	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3

(END OF REPORT)