

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: P333137-927

Luminaire Tested: **S125DIP-S375D810U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333137-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S375D810U927-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3379.6 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

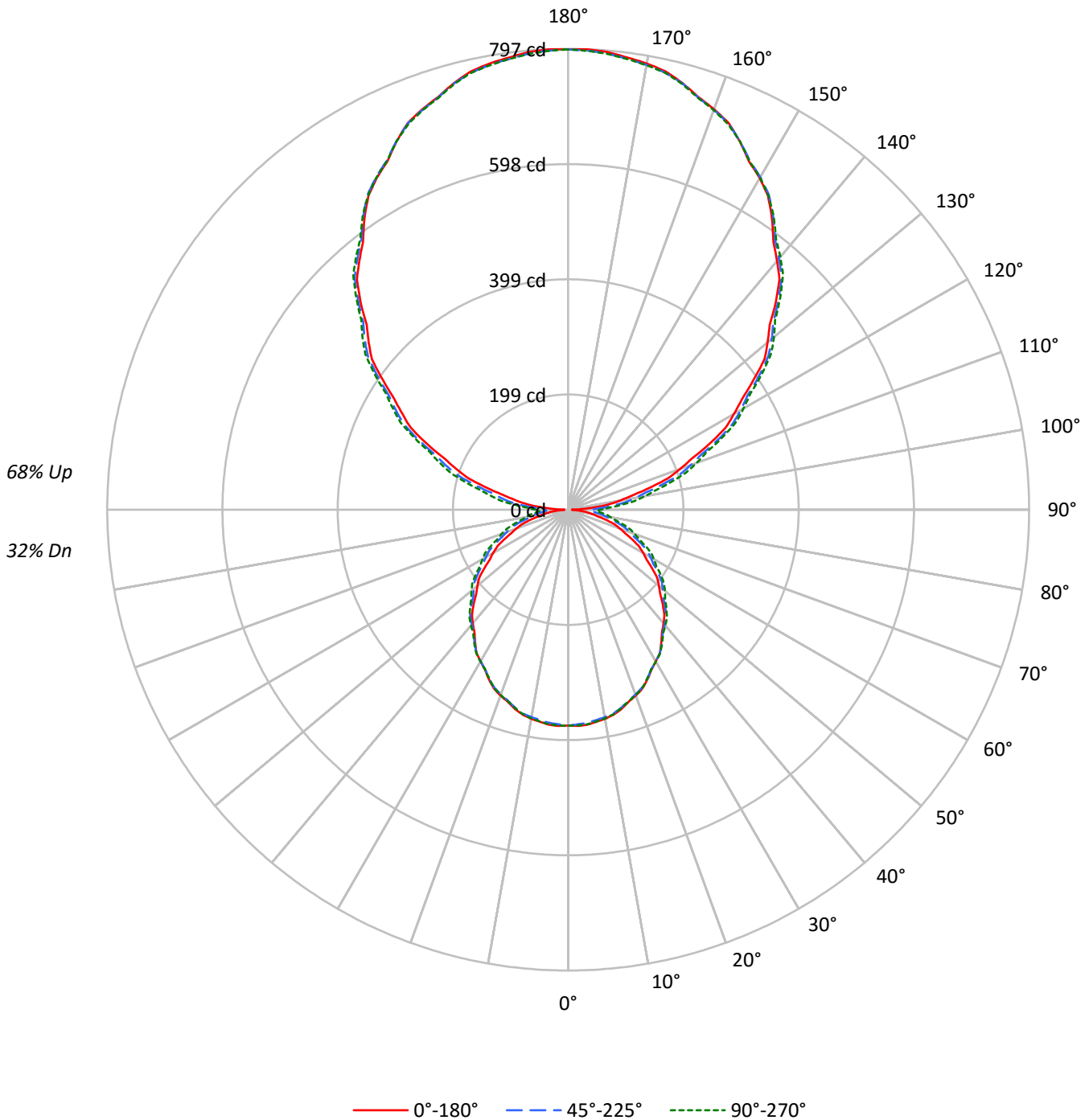
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	73	73	73	56	56	56	40	40	40	32
1	93	89	85	81	84	80	77	74	64	61	59	48	47	45	34	33	33	26
2	85	77	71	66	76	70	64	60	55	52	49	42	40	38	30	28	27	21
3	77	68	60	55	69	61	55	50	49	44	41	37	34	31	26	24	23	18
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	23	21	19	15
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17	13
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15	12
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13	10
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12	9
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10	8
10	44	32	25	20	39	29	23	19	24	19	16	18	15	13	14	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2412	2412	2412
5°	2416	2367	2375
10°	2399	2324	2322
15°	2371	2274	2253
20°	2333	2212	2186
25°	2287	2145	2103
30°	2231	2071	2027
35°	2179	2003	1957
40°	2127	1932	1887
45°	2067	1871	1825
50°	2010	1805	1770
55°	1941	1743	1706
60°	1866	1671	1640
65°	1789	1597	1567
70°	1700	1494	1490
75°	1558	1397	1397
80°	1377	1278	1295
85°	1203	1197	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.0
10°-20°	100.2	3.0
20°-30°	149.1	4.4
30°-40°	176.6	5.2
40°-50°	182.6	5.4
50°-60°	168.2	5.0
60°-70°	135.9	4.0
70°-80°	91.0	2.7
80°-90°	49.0	1.4
90°-100°	79.8	2.4
100°-110°	177.0	5.2
110°-120°	279.8	8.3
120°-130°	358.4	10.6
130°-140°	396.5	11.7
140°-150°	386.1	11.4
150°-160°	323.7	9.6
160°-170°	215.2	6.4
170°-180°	75.3	2.2
0°-30°	284.6	8.4
0°-40°	461.2	13.6
0°-60°	812.0	24.0
0°-90°	1087.9	32.2
90°-120°	536.5	15.9
90°-150°	1677.4	49.6
90°-180°	2292.0	67.8
0°-180°	3379.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	373	373	370	373	373	35
15°	357	357	354	356	355	100
25°	324	325	323	324	323	149
35°	280	283	282	283	283	175
45°	231	235	237	239	240	178
55°	178	183	189	193	195	159
65°	122	131	140	145	146	121
75°	67	77	89	96	98	71
85°	20	32	45	53	56	21
90°	6	23	40	51	56	6
95°	45	56	74	86	91	47
105°	144	154	168	179	184	154
115°	269	275	285	291	293	266
125°	391	395	402	407	408	350
135°	508	511	514	518	518	391
145°	614	616	618	620	620	384
155°	702	702	703	705	702	323
165°	764	763	763	765	762	215
175°	794	792	792	795	791	75
180°	796	796	796	796	796	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	374.3	374.1	374.1	373.9	373.8	373.5	373.0	372.6	372.2	371.7	372.2
5°	373.4	373.3	373.1	373.0	372.8	372.4	371.9	371.3	370.7	370.1	370.8
7.5°	370.1	370.1	370.0	369.9	369.9	369.6	369.0	368.4	367.8	367.2	367.8
10°	367.2	367.2	367.2	367.2	367.2	366.9	366.2	365.6	365.0	364.2	364.9
12.5°	363.1	363.2	363.2	363.3	363.4	363.1	362.7	362.1	361.6	361.1	361.5
15°	356.6	356.6	356.7	356.9	357.0	356.6	356.1	355.5	355.0	354.4	354.9
17.5°	348.1	348.2	348.4	348.6	348.7	348.6	348.0	347.4	346.8	346.3	346.7
20°	342.0	342.1	342.3	342.5	342.6	342.4	341.8	341.3	340.7	340.1	340.4
22.5°	334.9	335.3	335.5	335.8	336.1	335.9	335.3	334.6	334.0	333.4	333.7
25°	324.0	324.2	324.5	324.7	325.0	324.9	324.4	323.9	323.4	322.9	323.2
27.5°	311.9	312.2	312.6	312.9	313.3	313.2	312.7	312.1	311.6	311.0	311.2
30°	302.8	303.2	303.7	304.3	304.8	304.8	304.3	303.7	303.2	302.8	302.9
32.5°	294.6	295.0	295.4	295.9	296.3	296.3	296.0	295.6	295.2	294.9	295.0
35°	280.4	281.0	281.6	282.2	282.7	282.9	282.7	282.4	282.2	281.9	282.2
37.5°	266.3	266.8	267.4	267.8	268.4	268.6	268.5	268.5	268.4	268.3	268.6
40°	256.7	257.3	257.9	258.6	259.3	259.5	259.4	259.4	259.3	259.2	259.5
42.5°	246.1	246.9	247.8	248.7	249.5	250.0	250.2	250.3	250.6	250.7	251.1
45°	231.0	232.0	232.8	233.7	234.6	235.3	235.7	236.1	236.5	236.9	237.4
47.5°	215.6	216.4	217.2	218.1	218.9	219.7	220.4	221.0	221.7	222.4	223.3
50°	205.0	205.9	206.8	207.7	208.6	209.5	210.4	211.3	212.1	213.1	214.0
52.5°	193.9	195.0	196.1	197.2	198.3	199.3	200.4	201.5	202.6	203.7	204.7
55°	177.5	178.9	180.1	181.5	182.8	184.1	185.4	186.6	188.0	189.3	190.2
57.5°	160.9	162.4	164.0	165.6	167.2	168.7	170.2	171.7	173.2	174.6	175.6
60°	149.7	151.4	153.0	154.6	156.2	157.9	159.5	161.1	162.8	164.4	165.6
62.5°	138.9	140.5	142.2	143.8	145.4	147.1	148.9	150.6	152.4	154.2	155.5
65°	122.3	124.1	126.0	127.9	129.8	131.7	133.6	135.6	137.5	139.5	140.7
67.5°	106.6	108.4	110.2	112.0	113.8	115.7	117.7	119.7	121.7	123.7	125.2
70°	95.2	97.0	98.9	100.8	102.7	104.6	106.8	108.9	111.0	113.1	114.7
72.5°	84.1	86.0	87.9	89.8	91.8	94.0	96.3	98.5	100.8	103.1	104.9
75°	67.3	69.5	71.6	73.7	75.8	78.2	80.8	83.4	86.0	88.6	90.2
77.5°	51.3	53.8	56.2	58.6	61.1	63.5	66.1	68.6	71.1	73.6	75.4
80°	41.4	43.8	46.3	48.7	51.1	53.7	56.5	59.3	62.0	64.8	66.6
82.5°	32.3	34.9	37.5	40.0	42.5	45.3	48.1	50.9	53.8	56.6	58.3
85°	20.1	22.8	25.5	28.2	30.9	33.7	36.5	39.4	42.2	45.0	46.8
87.5°	11.6	14.3	17.2	20.0	22.8	25.7	28.7	31.7	34.6	37.5	39.6
90°	6.5	10.2	13.9	17.6	21.3	25.0	28.8	32.5	36.2	39.9	42.5
92.5°	20.3	23.4	26.6	29.8	33.0	36.6	40.6	44.6	48.6	52.6	55.4
95°	45.0	47.5	49.8	52.2	54.6	57.8	62.0	66.1	70.3	74.4	77.2
97.5°	71.2	73.2	75.3	77.2	79.3	82.5	87.1	91.7	96.3	100.8	103.5
100°	90.8	92.4	94.2	95.9	97.6	100.6	105.0	109.4	113.8	118.2	121.1
102.5°	111.8	113.9	116.1	118.1	120.3	123.1	126.5	130.0	133.4	136.9	139.8
105°	144.5	146.6	148.5	150.5	152.5	155.1	158.4	161.7	164.9	168.2	170.6
107.5°	180.8	182.5	184.3	186.2	187.9	190.4	193.3	196.3	199.2	202.2	204.2
110°	205.7	207.4	209.1	210.7	212.4	214.6	217.3	220.0	222.7	225.4	227.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	231.5	232.7	233.8	235.0	236.1	238.0	240.7	243.4	246.2	249.0	250.6
115°	269.2	270.3	271.4	272.5	273.7	275.4	277.8	280.2	282.6	284.9	286.3
117.5°	307.0	307.6	308.2	308.9	309.4	310.9	313.1	315.4	317.7	319.9	321.4
120°	330.7	331.7	332.6	333.6	334.5	336.0	337.9	340.0	342.0	344.0	345.4
122.5°	356.2	356.6	357.0	357.4	357.7	358.9	361.1	363.3	365.4	367.6	368.8
125°	391.1	391.8	392.6	393.3	394.1	395.3	397.1	398.9	400.6	402.4	403.4
127.5°	427.9	428.3	428.6	429.0	429.4	430.4	431.9	433.4	434.9	436.4	437.4
130°	450.2	450.8	451.4	452.0	452.7	453.6	455.0	456.5	457.9	459.3	460.3
132.5°	472.2	473.3	474.4	475.5	476.7	477.6	478.5	479.3	480.1	480.9	481.9
135°	507.5	508.2	508.9	509.7	510.4	511.1	511.8	512.5	513.3	514.0	515.0
137.5°	540.6	541.3	542.0	542.8	543.5	544.2	544.7	545.3	545.9	546.4	547.6
140°	561.6	562.3	563.0	563.6	564.4	564.9	565.5	565.9	566.4	566.9	568.1
142.5°	582.9	583.4	583.9	584.5	584.9	585.5	586.0	586.5	587.1	587.6	588.6
145°	614.3	614.7	615.2	615.7	616.1	616.6	617.0	617.3	617.8	618.2	618.6
147.5°	642.9	643.2	643.5	643.8	644.0	644.4	644.8	645.1	645.4	645.7	646.2
150°	662.2	662.0	661.9	661.8	661.6	661.9	662.4	663.0	663.5	664.1	664.1
152.5°	678.0	678.3	678.4	678.7	678.8	679.1	679.2	679.5	679.7	679.9	680.2
155°	702.4	702.4	702.4	702.4	702.4	702.5	702.7	702.8	702.9	703.1	703.6
157.5°	724.3	724.0	723.7	723.3	723.0	722.9	723.1	723.3	723.3	723.5	724.1
160°	737.1	736.7	736.3	735.9	735.5	735.4	735.5	735.6	735.8	735.9	736.5
162.5°	748.5	748.2	747.9	747.7	747.3	747.2	747.2	747.3	747.3	747.3	748.0
165°	763.8	763.5	763.3	763.0	762.7	762.6	762.7	762.9	763.0	763.2	763.7
167.5°	776.7	776.1	775.5	775.0	774.4	774.2	774.2	774.2	774.2	774.2	775.0
170°	783.6	783.1	782.5	782.0	781.4	781.1	781.1	781.1	781.1	781.1	782.0
172.5°	788.5	788.0	787.4	786.9	786.3	786.1	786.1	786.1	786.1	786.1	786.9
175°	794.2	793.6	793.1	792.5	791.9	791.6	791.6	791.6	791.6	791.6	792.5
177.5°	797.0	796.5	796.1	795.7	795.2	795.0	794.9	794.7	794.6	794.5	795.2
180°	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	372.6	373.0	373.5	373.7	373.6	373.6	373.5	373.4
5°	371.5	372.1	372.7	373.0	373.0	372.9	372.8	372.7
7.5°	368.4	368.9	369.5	369.7	369.6	369.6	369.5	369.4
10°	365.4	366.0	366.5	366.8	366.7	366.6	366.5	366.5
12.5°	361.9	362.3	362.8	362.9	362.7	362.5	362.3	362.1
15°	355.4	355.8	356.3	356.4	356.1	355.8	355.5	355.1
17.5°	347.1	347.4	347.8	347.8	347.7	347.5	347.3	347.1
20°	340.6	340.9	341.1	341.2	341.2	341.2	341.2	341.2
22.5°	334.0	334.3	334.6	334.7	334.5	334.3	334.1	333.9
25°	323.5	323.9	324.2	324.2	323.8	323.4	323.0	322.6
27.5°	311.4	311.6	311.9	312.0	311.8	311.6	311.5	311.3
30°	303.1	303.2	303.4	303.5	303.4	303.3	303.2	303.2
32.5°	295.2	295.3	295.5	295.6	295.5	295.4	295.3	295.2
35°	282.4	282.7	282.9	283.0	283.0	283.0	283.0	283.0
37.5°	268.9	269.3	269.6	269.7	269.7	269.7	269.7	269.6
40°	259.8	260.2	260.5	260.8	260.9	261.1	261.3	261.4
42.5°	251.5	251.9	252.3	252.5	252.5	252.5	252.5	252.6
45°	238.1	238.6	239.2	239.5	239.6	239.6	239.7	239.8
47.5°	224.1	225.0	225.8	226.2	226.5	226.6	226.8	227.0
50°	214.8	215.8	216.7	217.2	217.5	217.7	217.9	218.2
52.5°	205.7	206.6	207.6	208.1	208.3	208.5	208.7	208.8
55°	191.1	191.9	192.9	193.5	193.8	194.1	194.5	194.8
57.5°	176.7	177.7	178.7	179.4	179.6	179.8	180.1	180.4
60°	166.8	168.0	169.3	170.0	170.2	170.5	170.7	171.0
62.5°	156.9	158.2	159.5	160.3	160.7	161.0	161.3	161.6
65°	142.0	143.1	144.3	145.1	145.4	145.8	146.2	146.5
67.5°	126.7	128.1	129.6	130.6	130.9	131.4	131.8	132.2
70°	116.2	117.8	119.3	120.3	120.8	121.3	121.8	122.3
72.5°	106.5	108.2	109.9	110.9	111.2	111.6	111.9	112.3
75°	91.9	93.5	95.1	96.1	96.6	97.0	97.4	97.8
77.5°	77.2	79.0	80.7	81.8	82.1	82.5	82.8	83.1
80°	68.4	70.2	71.9	73.0	73.4	73.7	74.0	74.3
82.5°	60.0	61.8	63.5	64.6	65.3	65.8	66.4	67.0
85°	48.6	50.4	52.2	53.4	54.0	54.7	55.4	56.0
87.5°	41.6	43.6	45.6	46.9	47.6	48.2	48.9	49.5
90°	45.1	47.6	50.1	52.0	52.9	53.9	54.9	55.8
92.5°	58.1	60.8	63.5	65.3	66.1	67.0	67.9	68.8
95°	79.9	82.7	85.5	87.2	88.1	89.0	89.8	90.6
97.5°	106.1	108.7	111.3	113.0	113.7	114.4	115.1	115.8
100°	124.1	127.1	130.0	131.8	132.6	133.4	134.1	134.9
102.5°	142.8	145.8	148.9	150.8	151.6	152.5	153.4	154.2
105°	173.1	175.5	178.0	179.7	180.7	181.6	182.7	183.6
107.5°	206.3	208.3	210.3	211.6	212.1	212.5	213.0	213.5
110°	229.3	231.2	233.1	234.4	234.8	235.2	235.7	236.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	252.3	254.0	255.6	256.7	257.0	257.3	257.6	257.9
115°	287.6	289.0	290.3	291.1	291.4	291.8	292.2	292.6
117.5°	322.9	324.4	325.9	326.6	326.6	326.6	326.6	326.6
120°	346.7	348.2	349.5	350.2	350.1	350.1	350.0	349.9
122.5°	370.0	371.2	372.4	373.0	373.1	373.1	373.2	373.3
125°	404.4	405.4	406.5	407.2	407.4	407.7	408.0	408.2
127.5°	438.6	439.6	440.7	441.2	441.5	441.6	441.9	442.0
130°	461.3	462.3	463.3	463.9	464.0	464.1	464.3	464.4
132.5°	482.9	483.9	484.9	485.4	485.4	485.3	485.3	485.2
135°	516.1	517.1	518.2	518.6	518.5	518.4	518.2	518.1
137.5°	548.7	549.9	551.0	551.4	551.0	550.6	550.2	549.9
140°	569.3	570.5	571.6	572.0	571.6	571.2	570.9	570.5
142.5°	589.5	590.4	591.4	591.6	591.3	590.9	590.6	590.2
145°	619.0	619.4	619.8	620.0	619.9	619.8	619.7	619.6
147.5°	646.7	647.1	647.5	647.4	646.6	645.8	645.0	644.2
150°	664.1	664.1	664.1	663.9	663.8	663.5	663.4	663.2
152.5°	680.6	680.9	681.2	681.1	680.6	680.2	679.7	679.2
155°	704.2	704.7	705.3	705.2	704.5	703.9	703.1	702.4
157.5°	724.6	725.2	725.7	725.6	724.6	723.7	722.8	721.9
160°	737.0	737.5	738.1	738.1	737.4	736.7	735.9	735.3
162.5°	748.6	749.3	750.0	749.9	749.1	748.3	747.5	746.7
165°	764.3	764.9	765.3	765.2	764.4	763.6	762.7	761.9
167.5°	775.9	776.7	777.5	777.4	776.7	775.8	774.9	774.0
170°	782.8	783.6	784.4	784.3	783.4	782.4	781.5	780.5
172.5°	787.7	788.5	789.4	789.4	788.5	787.7	786.8	785.9
175°	793.3	794.2	795.0	794.9	793.9	793.0	792.0	791.1
177.5°	795.8	796.5	797.2	797.1	796.3	795.6	794.8	794.0
180°	796.0	796.0	796.0	796.0	796.0	796.0	796.0	796.0

(END OF REPORT)