

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: P333191-930

Luminaire Tested: **S125DIP-S610D1035U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333191-930
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-S610D1035U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4877.9 lumens
Efficiency: N/A
Efficacy: 109.6 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: Semi-Indirect

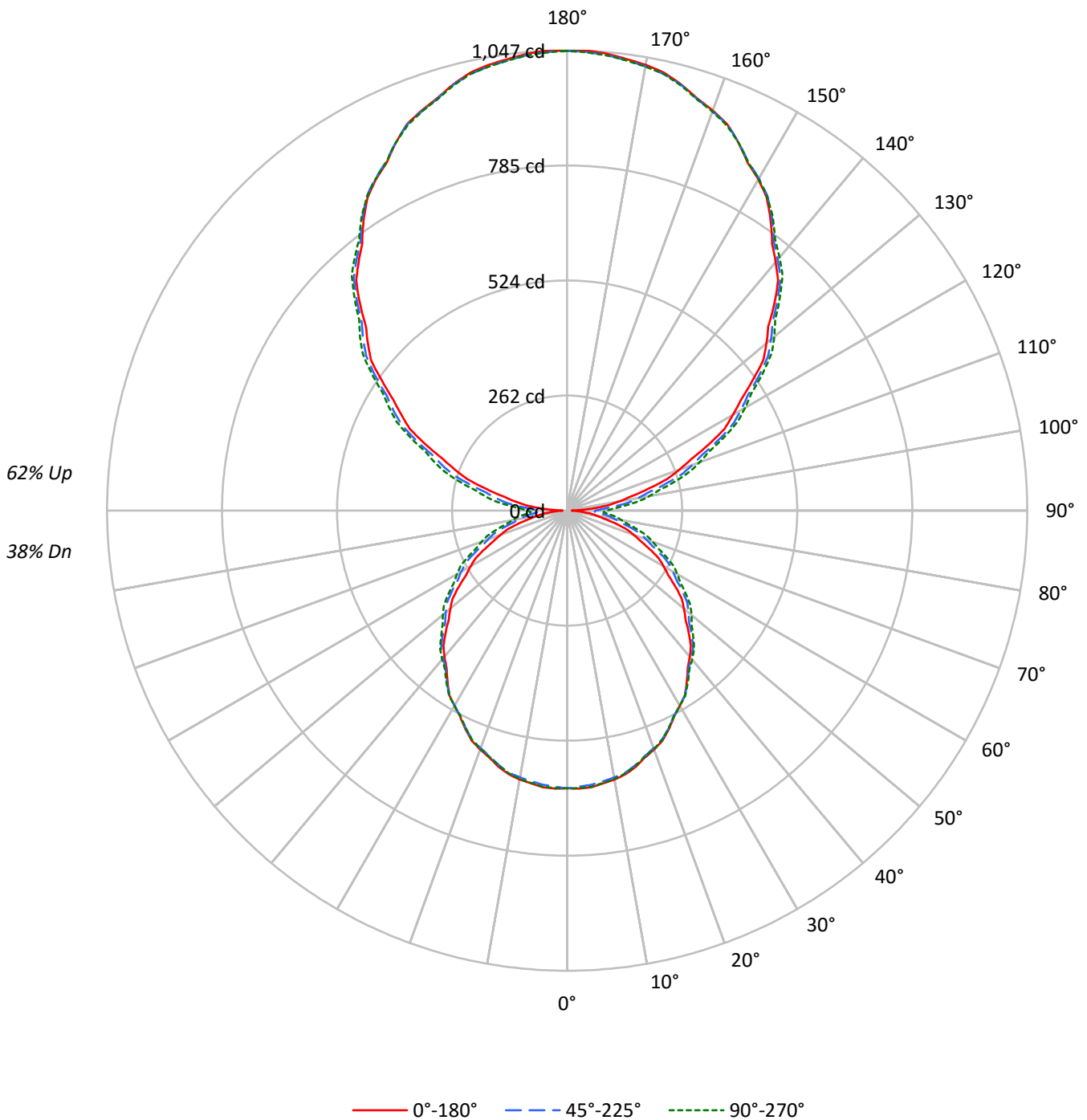
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	94	90	86	82	85	82	78	75	66	64	62	52	50	49	39	38	37	31				
2	86	78	72	67	77	71	66	61	58	54	50	45	43	40	34	32	30	25				
3	78	69	61	55	70	62	56	51	51	46	42	40	36	34	30	28	26	21				
4	71	60	53	46	64	55	48	43	45	40	36	35	32	29	26	24	22	18				
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	15				
6	60	48	40	34	54	44	37	32	36	31	27	28	25	22	21	19	17	14				
7	55	43	35	30	50	40	33	28	32	27	23	26	22	19	20	17	15	12				
8	51	39	31	26	46	36	29	24	29	24	21	24	20	17	18	15	13	11				
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10				
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11	9				

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	3.5
20°-30°	252.2	5.2
30°-40°	298.8	6.1
40°-50°	308.9	6.3
50°-60°	284.6	5.8
60°-70°	230.0	4.7
70°-80°	154.0	3.2
80°-90°	82.2	1.7
90°-100°	114.9	2.4
100°-110°	239.9	4.9
110°-120°	372.5	7.6
120°-130°	473.7	9.7
130°-140°	522.2	10.7
140°-150°	507.5	10.4
150°-160°	425.4	8.7
160°-170°	282.7	5.8
170°-180°	98.9	2.0
0°-30°	481.6	9.9
0°-40°	780.4	16.0
0°-60°	1373.8	28.2
0°-90°	1840.1	37.7
90°-120°	727.3	14.9
90°-150°	2230.8	45.7
90°-180°	3038.0	62.3
0°-180°	4877.9	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	89	10
95°	61	79	108	126	133	63
105°	191	206	229	245	253	204
115°	354	363	380	390	393	351
125°	514	519	532	540	542	460
135°	667	671	676	684	684	514
145°	807	810	812	815	816	504
155°	923	923	924	927	923	425
165°	1004	1002	1003	1006	1001	283
175°	1044	1040	1040	1045	1039	99
180°	1046	1046	1046	1046	1046	



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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	24.2	28.9	33.6	38.2	43.0	48.0	52.9	57.9	62.8	66.2
90°	10.8	16.6	22.4	28.3	34.2	40.0	46.0	51.9	57.9	63.8	67.9
92.5°	28.6	33.7	38.8	43.9	49.0	54.7	61.1	67.3	73.7	80.1	84.3
95°	61.0	64.9	68.8	72.8	76.7	81.9	88.5	94.9	101.4	107.9	112.2
97.5°	95.2	98.6	101.9	105.3	108.7	113.9	120.9	127.9	134.9	141.9	146.0
100°	120.7	123.7	126.5	129.5	132.3	137.1	143.9	150.7	157.4	164.2	168.7
102.5°	148.3	151.6	155.1	158.5	161.8	166.3	171.8	177.2	182.8	188.3	192.8
105°	191.2	194.3	197.4	200.5	203.6	207.7	213.0	218.2	223.4	228.6	232.4
107.5°	238.6	241.4	244.2	247.0	249.7	253.5	258.3	263.1	267.9	272.7	276.0
110°	271.3	273.9	276.4	279.0	281.5	285.0	289.4	293.8	298.2	302.6	305.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	305.2	307.0	308.8	310.5	312.3	315.4	319.9	324.3	328.7	333.2	335.9
115°	354.5	356.2	357.9	359.6	361.3	364.1	368.0	371.9	375.9	379.8	382.1
117.5°	404.1	405.0	405.9	406.9	407.9	410.3	413.9	417.7	421.3	425.1	427.5
120°	435.3	436.6	438.0	439.3	440.6	442.9	446.3	449.6	453.0	456.3	458.6
122.5°	468.6	469.2	469.7	470.3	470.8	472.8	476.3	479.8	483.3	486.9	488.9
125°	514.5	515.4	516.3	517.3	518.3	520.2	523.1	526.0	529.0	531.9	533.8
127.5°	562.6	563.1	563.6	564.1	564.6	566.1	568.5	571.0	573.5	575.9	577.8
130°	592.0	592.7	593.5	594.3	595.0	596.6	598.8	601.1	603.4	605.7	607.5
132.5°	620.8	622.2	623.7	625.2	626.6	628.0	629.5	630.9	632.3	633.7	635.4
135°	667.1	668.0	669.0	669.9	670.8	671.9	673.0	674.2	675.3	676.5	678.2
137.5°	710.5	711.5	712.4	713.4	714.3	715.2	716.1	717.0	717.8	718.7	720.6
140°	738.1	739.0	739.9	740.8	741.7	742.5	743.1	743.8	744.5	745.2	747.1
142.5°	766.1	766.7	767.4	768.0	768.7	769.3	770.1	770.8	771.5	772.2	773.7
145°	807.2	807.8	808.5	809.0	809.6	810.2	810.7	811.2	811.8	812.4	813.0
147.5°	844.7	845.1	845.5	846.0	846.3	846.8	847.2	847.6	848.0	848.5	849.1
150°	870.1	869.9	869.8	869.6	869.4	869.7	870.4	871.1	871.8	872.5	872.5
152.5°	891.0	891.2	891.4	891.7	891.9	892.3	892.5	892.8	893.1	893.4	893.8
155°	923.0	923.0	923.0	923.0	923.0	923.1	923.3	923.5	923.7	923.8	924.5
157.5°	951.7	951.3	950.9	950.5	950.1	950.0	950.1	950.3	950.6	950.7	951.5
160°	968.6	968.1	967.5	966.9	966.5	966.3	966.5	966.6	966.8	966.9	967.7
162.5°	983.6	983.2	982.8	982.4	982.0	981.8	981.9	981.9	981.9	981.9	982.8
165°	1003.6	1003.2	1002.9	1002.5	1002.2	1002.1	1002.2	1002.4	1002.6	1002.8	1003.6
167.5°	1020.5	1019.8	1019.1	1018.4	1017.7	1017.2	1017.2	1017.2	1017.2	1017.2	1018.4
170°	1029.6	1028.9	1028.2	1027.5	1026.8	1026.4	1026.4	1026.4	1026.4	1026.4	1027.5
172.5°	1036.2	1035.4	1034.7	1034.0	1033.3	1032.9	1032.9	1032.9	1032.9	1032.9	1034.0
175°	1043.5	1042.8	1042.0	1041.3	1040.6	1040.2	1040.2	1040.2	1040.2	1040.2	1041.3
177.5°	1047.3	1046.7	1046.1	1045.5	1044.9	1044.6	1044.4	1044.2	1044.2	1044.0	1044.9
180°	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9



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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	72.9	76.2	78.4	79.5	80.6	81.6	82.7
90°	72.0	76.1	80.1	82.9	84.4	85.9	87.4	88.9
92.5°	88.5	92.8	97.1	99.9	101.3	102.6	104.0	105.3
95°	116.5	120.7	125.1	127.9	129.2	130.5	131.8	133.2
97.5°	150.1	154.2	158.2	160.9	162.0	163.1	164.4	165.5
100°	173.3	177.7	182.2	185.1	186.3	187.5	188.7	189.9
102.5°	197.4	201.9	206.4	209.4	210.8	212.1	213.4	214.7
105°	236.3	240.1	243.9	246.6	248.2	249.6	251.1	252.7
107.5°	279.2	282.5	285.8	287.8	288.6	289.4	290.2	291.1
110°	308.9	312.1	315.3	317.2	318.0	318.8	319.5	320.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	338.7	341.4	344.2	345.9	346.6	347.2	347.8	348.5
115°	384.4	386.8	389.1	390.5	391.2	391.8	392.5	393.1
117.5°	430.1	432.5	435.0	436.3	436.6	436.8	437.0	437.2
120°	461.0	463.3	465.6	466.8	467.0	467.1	467.2	467.2
122.5°	491.1	493.1	495.2	496.4	496.6	496.8	497.1	497.3
125°	535.6	537.4	539.3	540.5	541.0	541.4	542.0	542.5
127.5°	579.7	581.6	583.3	584.6	585.0	585.4	585.9	586.3
130°	609.2	611.0	612.7	613.8	614.1	614.4	614.7	615.1
132.5°	637.2	639.0	640.7	641.6	641.6	641.7	641.8	641.9
135°	680.0	681.8	683.6	684.5	684.4	684.4	684.4	684.4
137.5°	722.4	724.2	726.0	726.8	726.4	726.1	725.7	725.4
140°	748.9	750.8	752.7	753.5	753.1	752.8	752.4	752.0
142.5°	775.2	776.7	778.3	778.9	778.4	778.1	777.8	777.4
145°	813.7	814.4	815.1	815.5	815.5	815.5	815.5	815.5
147.5°	849.8	850.4	851.1	850.9	849.9	849.0	848.0	847.0
150°	872.5	872.5	872.5	872.5	872.2	872.0	871.8	871.6
152.5°	894.3	894.7	895.1	895.0	894.4	893.8	893.2	892.5
155°	925.3	926.0	926.8	926.7	925.8	924.8	923.9	923.0
157.5°	952.1	952.8	953.6	953.3	952.2	951.0	949.7	948.6
160°	968.4	969.1	969.9	969.8	968.9	968.0	967.1	966.1
162.5°	983.7	984.6	985.5	985.4	984.3	983.3	982.2	981.1
165°	1004.2	1004.9	1005.7	1005.5	1004.4	1003.3	1002.2	1001.2
167.5°	1019.5	1020.5	1021.7	1021.6	1020.5	1019.4	1018.2	1017.1
170°	1028.6	1029.6	1030.7	1030.6	1029.4	1028.1	1026.9	1025.6
172.5°	1035.1	1036.2	1037.2	1037.2	1036.1	1035.0	1033.9	1032.7
175°	1042.4	1043.5	1044.6	1044.5	1043.3	1042.0	1040.6	1039.4
177.5°	1045.7	1046.6	1047.4	1047.4	1046.4	1045.4	1044.3	1043.3
180°	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9

(END OF REPORT)