

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: P332565-930

Luminaire Tested: **SA4XXDIP-C575D1035U930-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332565-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C575D1035U930-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 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: 5300.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

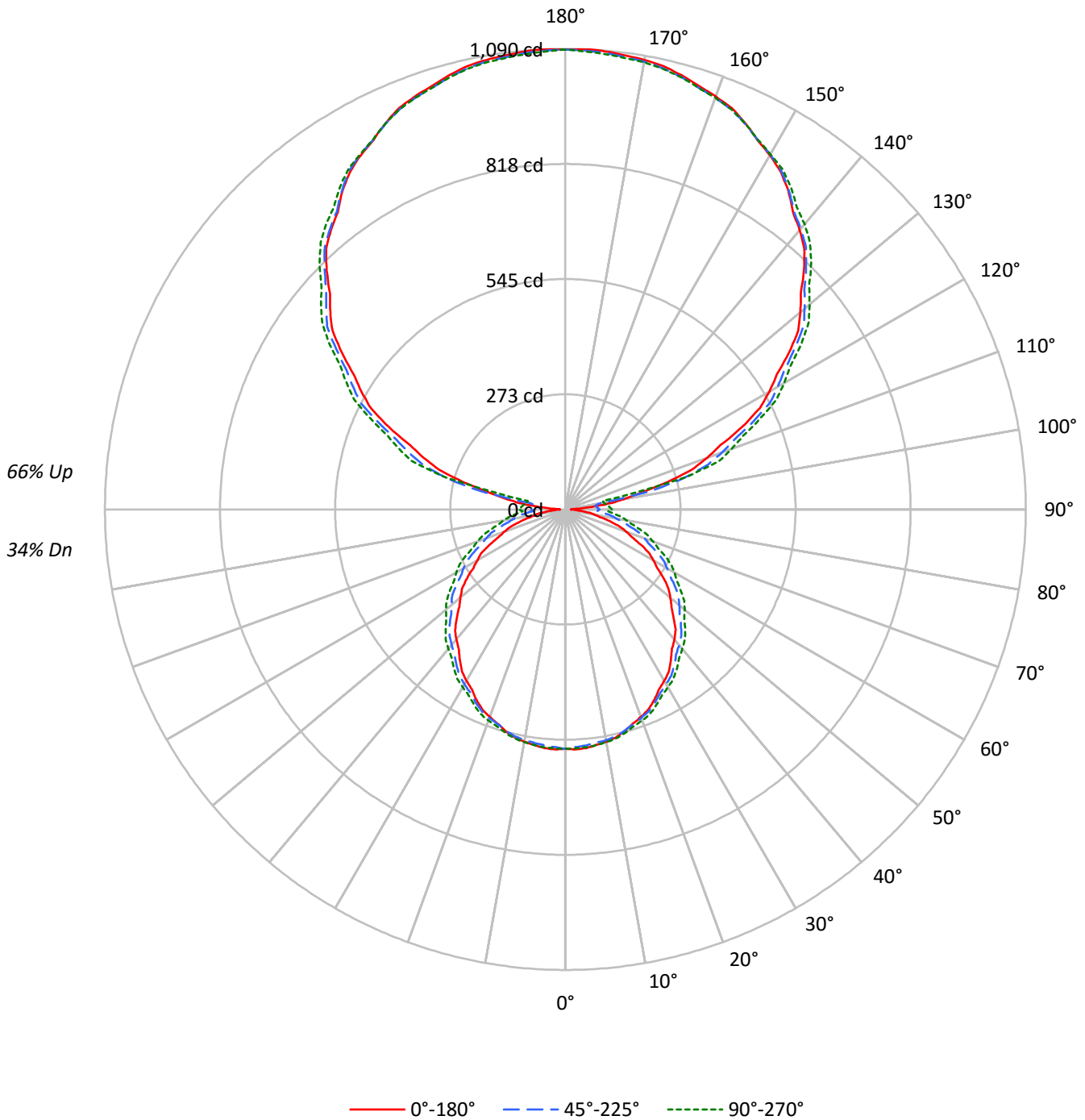
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	93	89	85	81	84	80	77	74	64	62	59	49	47	46	35	34	33	27				
2	85	77	71	66	76	70	64	60	56	52	49	43	40	38	31	29	28	22				
3	77	68	60	54	69	61	55	50	49	44	40	37	34	32	27	25	23	18				
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	22	20	16				
5	64	53	45	39	58	48	41	36	38	33	29	30	26	23	21	19	17	13				
6	59	47	39	33	53	43	36	31	34	29	25	27	23	20	19	17	15	12				
7	55	42	35	29	49	39	32	27	31	26	22	24	20	18	18	15	13	10				
8	51	38	31	25	45	35	28	23	28	23	19	22	18	16	16	14	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	18	24	19	15	19	15	12	14	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4574	4574	4574
5°	4588	4470	4482
10°	4560	4397	4393
15°	4519	4312	4289
20°	4458	4219	4187
25°	4388	4114	4074
30°	4313	4011	3959
35°	4227	3903	3858
40°	4160	3802	3753
45°	4059	3708	3663
50°	3973	3600	3567
55°	3884	3499	3454
60°	3746	3369	3353
65°	3597	3231	3227
70°	3414	3072	3080
75°	3157	2896	2948
80°	2873	2730	2819
85°	2514	2579	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.0
10°-20°	153.7	2.9
20°-30°	232.4	4.4
30°-40°	281.2	5.3
40°-50°	297.3	5.6
50°-60°	279.8	5.3
60°-70°	232.1	4.4
70°-80°	163.1	3.1
80°-90°	95.3	1.8
90°-100°	92.0	1.7
100°-110°	277.8	5.2
110°-120°	481.1	9.1
120°-130°	591.6	11.2
130°-140°	623.2	11.8
140°-150°	577.9	10.9
150°-160°	465.0	8.8
160°-170°	299.9	5.7
170°-180°	103.4	1.9
0°-30°	439.8	8.3
0°-40°	721.0	13.6
0°-60°	1298.1	24.5
0°-90°	1788.6	33.7
90°-120°	850.9	16.1
90°-150°	2643.6	49.9
90°-180°	3512.0	66.3
0°-180°	5300.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	567	565	561	566	565	54
15°	544	544	542	548	548	153
25°	497	501	503	510	511	229
35°	435	443	449	458	460	272
45°	363	375	387	397	401	280
55°	284	298	317	329	333	253
65°	197	217	239	254	260	195
75°	109	133	159	176	183	116
85°	34	60	89	107	114	36
90°	13	47	81	103	111	9
95°	53	48	73	94	102	64
105°	251	269	296	316	295	263
115°	461	470	489	504	509	454
125°	646	649	662	676	682	576
135°	799	799	806	817	823	615
145°	920	922	922	927	931	575
155°	1008	1009	1007	1010	1008	465
165°	1064	1060	1060	1065	1059	300
175°	1088	1084	1084	1090	1082	104
180°	1088	1088	1088	1088	1088	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	566.6	566.6	566.6	566.6	566.6	566.6	566.6	566.6	566.6	566.6	566.6
2.5°	568.6	568.3	567.9	567.5	567.2	566.6	565.7	564.8	563.9	563.0	563.8
5°	567.2	566.8	566.3	565.9	565.5	564.8	563.8	562.8	561.8	560.8	562.0
7.5°	562.4	562.1	561.8	561.6	561.3	560.8	560.0	559.2	558.3	557.5	558.8
10°	558.3	558.2	558.0	557.9	557.7	557.3	556.6	555.9	555.2	554.5	555.8
12.5°	552.7	552.7	552.7	552.6	552.6	552.4	551.9	551.4	550.9	550.4	551.5
15°	543.7	543.9	544.0	544.1	544.3	544.1	543.7	543.3	542.8	542.4	543.7
17.5°	531.4	531.8	532.2	532.6	533.1	533.3	533.2	533.1	533.0	533.0	534.2
20°	522.8	523.2	523.6	524.1	524.5	524.7	524.9	525.1	525.1	525.3	526.7
22.5°	513.1	513.6	514.2	514.7	515.3	515.7	515.9	516.2	516.4	516.7	518.1
25°	497.4	498.2	499.1	499.9	500.8	501.4	501.8	502.2	502.7	503.1	504.7
27.5°	479.9	481.1	482.3	483.6	484.9	485.8	486.4	487.1	487.7	488.4	489.8
30°	468.2	469.4	470.4	471.6	472.7	473.8	474.7	475.7	476.7	477.8	479.3
32.5°	455.5	456.9	458.2	459.6	461.0	462.2	463.3	464.4	465.5	466.6	468.3
35°	435.2	436.9	438.6	440.3	442.0	443.5	444.9	446.4	447.8	449.1	451.2
37.5°	414.8	416.7	418.7	420.6	422.6	424.4	426.2	428.0	429.7	431.4	433.4
40°	401.6	403.4	405.3	407.1	409.0	410.8	412.8	414.7	416.8	418.7	420.9
42.5°	386.4	388.4	390.4	392.6	394.6	396.8	399.1	401.4	403.7	406.0	408.4
45°	362.9	365.6	368.3	371.0	373.6	376.3	379.0	381.6	384.3	387.0	389.4
47.5°	340.5	343.2	345.9	348.7	351.5	354.4	357.5	360.6	363.7	366.8	369.3
50°	324.2	327.3	330.4	333.5	336.6	339.7	342.8	345.9	349.0	352.1	354.9
52.5°	307.9	311.0	314.1	317.2	320.3	323.7	327.3	330.8	334.4	337.9	340.7
55°	284.2	287.1	290.2	293.1	296.0	299.6	303.9	308.1	312.3	316.6	319.4
57.5°	257.7	261.4	265.1	268.7	272.4	276.3	280.5	284.7	288.9	293.1	296.4
60°	240.4	244.1	247.8	251.4	255.1	259.3	263.9	268.6	273.2	277.9	281.1
62.5°	223.7	227.7	231.7	235.7	239.7	244.0	248.7	253.3	258.0	262.7	265.9
65°	196.7	201.2	205.7	210.2	214.7	219.4	224.1	228.9	233.7	238.6	242.1
67.5°	170.6	175.5	180.3	185.1	189.8	194.8	199.9	205.0	210.2	215.3	218.9
70°	152.9	157.7	162.5	167.3	172.1	177.2	182.5	187.8	193.2	198.6	202.4
72.5°	135.7	140.6	145.4	150.3	155.2	160.5	166.2	171.9	177.7	183.4	187.0
75°	109.1	114.3	119.5	124.7	130.0	135.6	141.5	147.4	153.4	159.2	163.2
77.5°	84.4	89.9	95.5	100.9	106.5	112.3	118.5	124.7	130.9	137.1	141.1
80°	69.1	74.8	80.5	86.1	91.7	97.6	103.9	110.1	116.3	122.5	126.7
82.5°	53.9	59.8	65.6	71.5	77.4	83.4	89.6	95.8	102.0	108.3	112.6
85°	33.6	39.5	45.5	51.4	57.3	63.4	69.8	76.1	82.5	88.8	93.0
87.5°	19.2	25.4	31.6	37.7	43.9	50.1	56.7	63.1	69.5	76.1	80.3
90°	12.6	20.2	27.9	35.5	43.1	50.7	58.2	65.7	73.2	80.7	85.9
92.5°	19.9	25.1	30.2	35.5	40.6	47.0	54.5	62.0	69.5	77.0	82.1
95°	53.0	51.5	50.0	48.5	47.0	49.2	55.2	61.1	67.1	73.1	78.0
97.5°	102.6	110.4	118.2	126.0	133.9	130.6	116.1	101.7	87.2	72.7	76.6
100°	140.5	147.4	154.3	161.2	168.1	161.8	142.4	122.9	103.5	84.1	84.8
102.5°	183.4	189.1	194.6	200.2	205.9	209.7	211.8	213.9	216.1	218.3	188.7
105°	250.7	254.6	258.5	262.4	266.3	271.3	277.4	283.6	289.7	295.8	300.9
107.5°	314.2	317.1	319.9	322.8	325.6	330.1	336.3	342.5	348.6	354.8	359.1
110°	356.7	359.2	361.7	364.2	366.7	371.0	377.0	383.0	389.1	395.1	398.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	397.9	400.6	403.3	406.0	408.7	412.7	417.9	423.1	428.4	433.6	436.6
115°	461.2	463.0	464.8	466.7	468.5	471.6	475.9	480.2	484.5	488.9	492.3
117.5°	518.9	520.3	521.9	523.3	524.8	527.8	532.5	537.0	541.7	546.3	549.1
120°	557.4	558.6	559.7	560.8	562.0	564.5	568.4	572.3	576.3	580.2	583.3
122.5°	593.9	594.4	594.9	595.4	596.0	598.3	602.4	606.5	610.7	614.7	617.8
125°	645.5	646.1	646.7	647.3	647.8	649.7	652.9	656.1	659.2	662.3	665.6
127.5°	694.9	694.9	695.0	695.0	695.0	696.8	700.3	703.9	707.4	710.9	713.4
130°	726.3	726.3	726.4	726.4	726.4	727.8	730.7	733.4	736.2	739.1	741.8
132.5°	755.5	755.8	755.9	756.1	756.3	757.7	760.1	762.6	765.1	767.6	770.2
135°	798.9	798.7	798.5	798.3	798.2	798.9	800.6	802.3	804.0	805.8	808.4
137.5°	837.8	837.7	837.6	837.6	837.5	838.1	839.4	840.7	842.0	843.2	845.6
140°	863.2	863.4	863.6	863.8	864.1	864.5	865.0	865.4	865.9	866.4	868.8
142.5°	885.5	886.1	886.7	887.3	887.9	888.4	888.4	888.6	888.8	888.8	890.9
145°	920.3	920.7	921.1	921.5	921.9	922.1	922.1	922.1	922.1	922.1	923.2
147.5°	948.2	949.0	949.9	950.8	951.6	952.0	951.8	951.6	951.5	951.3	951.5
150°	968.3	968.9	969.5	970.1	970.7	970.9	970.7	970.5	970.4	970.1	970.1
152.5°	984.8	985.3	985.9	986.4	987.0	987.1	986.8	986.4	986.1	985.8	986.1
155°	1008.4	1008.6	1008.8	1008.9	1009.1	1008.9	1008.4	1007.9	1007.3	1006.8	1007.5
157.5°	1028.4	1028.3	1028.2	1028.1	1028.0	1027.6	1027.0	1026.4	1025.8	1025.2	1026.1
160°	1040.2	1039.6	1039.1	1038.5	1038.0	1037.6	1037.5	1037.2	1037.1	1036.9	1038.0
162.5°	1050.6	1049.9	1049.2	1048.5	1047.8	1047.4	1047.2	1047.0	1046.8	1046.7	1047.7
165°	1063.7	1062.8	1061.9	1061.0	1060.1	1059.6	1059.6	1059.6	1059.6	1059.6	1061.1
167.5°	1074.2	1073.3	1072.3	1071.4	1070.4	1069.9	1069.8	1069.7	1069.6	1069.4	1071.1
170°	1080.0	1079.0	1077.8	1076.8	1075.7	1075.2	1075.4	1075.6	1075.8	1076.0	1077.4
172.5°	1083.9	1082.9	1081.7	1080.7	1079.6	1079.1	1079.3	1079.5	1079.7	1079.9	1081.3
175°	1088.2	1087.1	1086.0	1084.9	1083.9	1083.4	1083.5	1083.8	1083.9	1084.1	1085.7
177.5°	1090.1	1089.1	1088.1	1087.1	1086.1	1085.7	1086.0	1086.3	1086.5	1086.9	1088.0
180°	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	566.6	566.6	566.6	566.6	566.6	566.6	566.6	566.6
2.5°	564.6	565.3	566.1	566.5	566.4	566.2	566.1	566.1
5°	563.1	564.2	565.3	565.8	565.7	565.6	565.4	565.2
7.5°	560.1	561.3	562.6	563.2	563.0	562.9	562.7	562.6
10°	557.0	558.3	559.5	560.1	560.0	559.9	559.7	559.5
12.5°	552.8	553.9	555.1	555.6	555.6	555.5	555.5	555.5
15°	544.9	546.3	547.5	548.0	548.0	547.8	547.6	547.5
17.5°	535.5	536.8	538.1	538.7	538.6	538.5	538.3	538.3
20°	528.2	529.5	530.9	531.7	531.7	531.7	531.7	531.7
22.5°	519.5	520.9	522.3	523.2	523.3	523.6	523.8	524.1
25°	506.2	507.8	509.3	510.1	510.3	510.5	510.5	510.7
27.5°	491.3	492.7	494.2	495.0	495.1	495.3	495.5	495.6
30°	480.9	482.4	484.0	484.9	485.1	485.4	485.7	486.0
32.5°	470.1	471.9	473.7	474.7	475.0	475.2	475.6	475.8
35°	453.1	455.1	457.1	458.3	458.7	459.1	459.5	460.0
37.5°	435.5	437.4	439.4	440.7	441.1	441.6	442.0	442.5
40°	423.0	425.1	427.2	428.5	429.1	429.7	430.2	430.8
42.5°	410.7	413.0	415.4	416.8	417.3	417.7	418.2	418.6
45°	391.8	394.2	396.6	398.1	398.8	399.6	400.2	401.0
47.5°	371.8	374.3	376.7	378.4	379.3	380.1	381.0	381.8
50°	357.8	360.6	363.4	365.3	366.1	366.9	367.8	368.6
52.5°	343.6	346.3	349.2	351.0	351.9	352.7	353.5	354.4
55°	322.2	325.1	327.8	329.7	330.5	331.4	332.2	333.0
57.5°	299.8	303.2	306.6	308.6	309.4	310.1	311.0	311.8
60°	284.4	287.6	290.8	293.0	294.2	295.3	296.4	297.6
62.5°	269.1	272.4	275.7	277.8	278.9	280.1	281.2	282.3
65°	245.6	249.2	252.7	254.9	256.1	257.2	258.4	259.5
67.5°	222.5	226.1	229.7	232.0	233.1	234.2	235.3	236.4
70°	206.2	210.0	213.8	216.2	217.2	218.2	219.2	220.1
72.5°	190.7	194.4	198.1	200.5	201.6	202.7	203.8	204.9
75°	167.1	171.0	175.0	177.7	178.9	180.2	181.5	182.7
77.5°	145.2	149.2	153.2	155.9	157.2	158.6	159.9	161.3
80°	130.9	135.1	139.3	142.0	143.2	144.3	145.4	146.6
82.5°	116.9	121.2	125.6	128.4	129.6	130.9	132.1	133.4
85°	97.3	101.5	105.7	108.6	110.0	111.4	112.8	114.2
87.5°	84.6	88.9	93.3	96.0	97.3	98.7	100.0	101.3
90°	91.1	96.2	101.4	104.8	106.2	107.7	109.3	110.7
92.5°	87.2	92.2	97.3	100.4	101.6	102.8	104.0	105.2
95°	82.9	87.8	92.7	95.9	97.3	98.7	100.2	101.7
97.5°	80.4	84.1	88.0	90.6	92.0	93.4	94.7	96.1
100°	85.5	86.3	87.0	87.9	89.1	90.3	91.4	92.5
102.5°	159.3	129.8	100.3	86.2	87.3	88.4	89.5	90.7
105°	306.1	311.3	316.4	316.3	311.0	305.6	300.1	294.7
107.5°	363.3	367.6	371.9	374.9	376.5	378.2	379.9	381.6
110°	402.3	405.9	409.5	412.1	413.8	415.5	417.2	418.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	439.7	442.7	445.8	448.3	450.0	451.8	453.7	455.5
115°	495.8	499.2	502.7	504.9	505.9	506.9	507.9	508.9
117.5°	552.0	554.8	557.7	559.6	560.7	561.7	562.8	563.9
120°	586.5	589.7	592.9	594.8	595.7	596.4	597.2	597.9
122.5°	620.9	623.9	626.9	628.8	629.4	630.1	630.7	631.4
125°	668.8	672.1	675.2	677.4	678.4	679.4	680.4	681.5
127.5°	715.8	718.3	720.7	722.3	723.1	723.9	724.7	725.5
130°	744.4	747.2	749.9	751.7	752.5	753.4	754.2	755.0
132.5°	772.8	775.4	778.0	779.7	780.4	781.1	781.8	782.5
135°	811.0	813.6	816.2	818.2	819.4	820.6	821.7	823.0
137.5°	848.2	850.6	853.0	854.6	855.2	855.7	856.4	857.0
140°	871.1	873.6	876.0	877.6	878.5	879.3	880.2	881.1
142.5°	892.8	894.9	896.9	898.2	898.8	899.4	900.1	900.7
145°	924.2	925.2	926.3	927.2	928.1	929.0	930.0	930.9
147.5°	951.8	952.0	952.3	952.8	953.4	954.0	954.6	955.3
150°	970.1	970.1	970.1	970.2	970.5	970.6	970.8	970.9
152.5°	986.3	986.7	986.9	987.0	986.9	986.8	986.7	986.6
155°	1008.2	1008.9	1009.7	1009.7	1009.3	1008.7	1008.1	1007.6
157.5°	1027.0	1028.0	1028.9	1028.9	1028.0	1027.0	1026.1	1025.2
160°	1039.1	1040.2	1041.2	1041.2	1040.2	1039.1	1038.0	1036.9
162.5°	1048.8	1049.9	1051.0	1050.9	1049.7	1048.5	1047.3	1046.0
165°	1062.6	1064.0	1065.4	1065.4	1063.7	1062.1	1060.5	1058.8
167.5°	1072.6	1074.2	1075.8	1075.7	1073.9	1072.1	1070.2	1068.4
170°	1078.9	1080.3	1081.7	1081.6	1079.8	1078.0	1076.1	1074.3
172.5°	1082.8	1084.2	1085.7	1085.4	1083.5	1081.5	1079.5	1077.6
175°	1087.4	1089.0	1090.6	1090.3	1088.2	1086.0	1083.9	1081.7
177.5°	1089.2	1090.3	1091.5	1091.2	1089.5	1087.8	1086.0	1084.3
180°	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2

(END OF REPORT)