

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: P333191-940

Luminaire Tested: **S125DIP-S610D1035U940-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333191-940
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-S610D1035U940-4F0-1E-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: 5335.1 lumens
Efficiency: N/A
Efficacy: 119.9 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

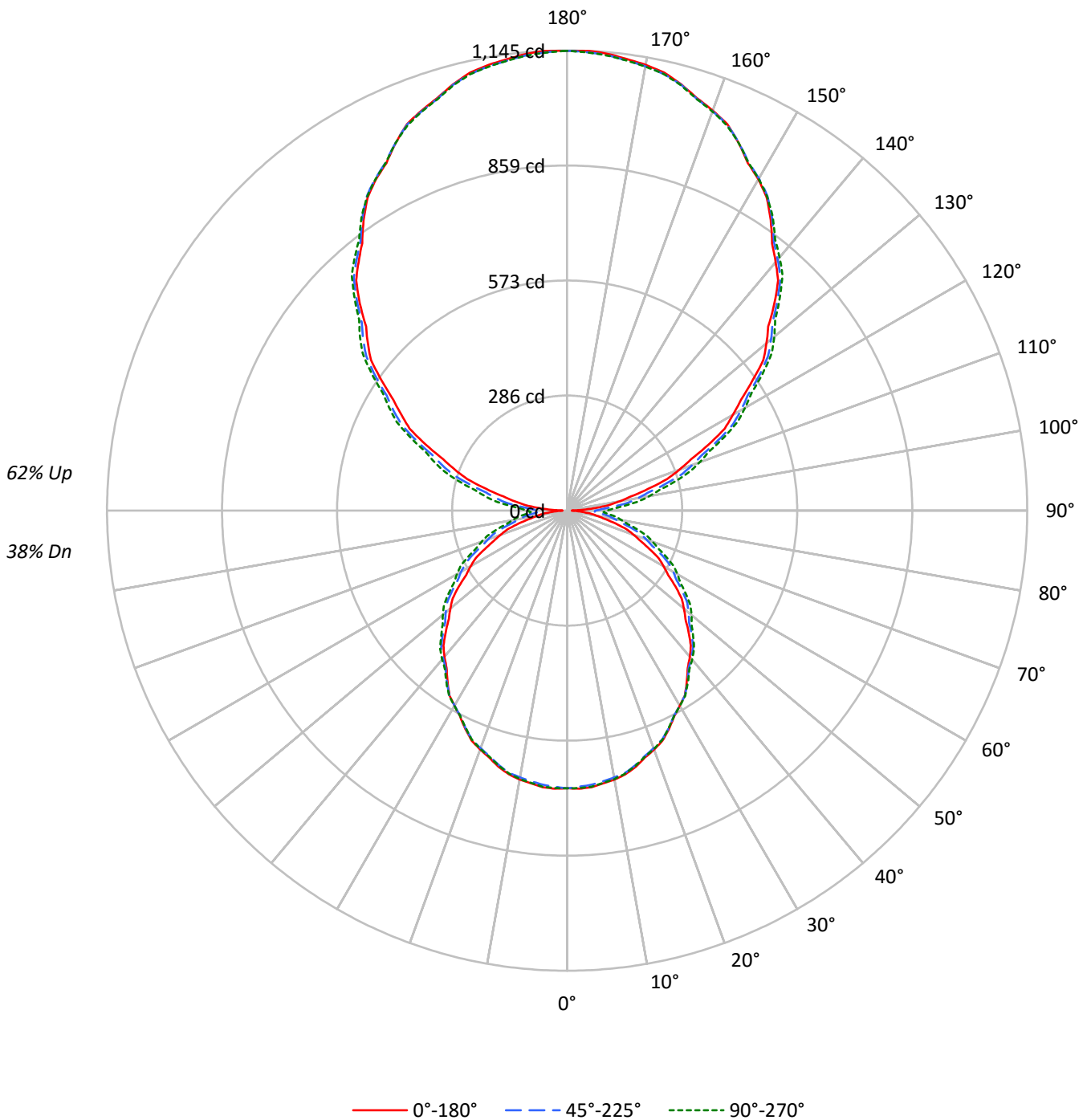
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4463	4463	4463
5°	4472	4380	4394
10°	4440	4302	4295
15°	4388	4209	4171
20°	4316	4093	4045
25°	4232	3969	3891
30°	4129	3833	3751
35°	4033	3708	3622
40°	3935	3576	3493
45°	3825	3463	3378
50°	3720	3340	3276
55°	3593	3225	3156
60°	3455	3093	3035
65°	3310	2956	2898
70°	3145	2767	2758
75°	2887	2586	2585
80°	2548	2365	2396
85°	2232	2219	2336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	1.2
10°-20°	185.5	3.5
20°-30°	275.9	5.2
30°-40°	326.8	6.1
40°-50°	337.9	6.3
50°-60°	311.2	5.8
60°-70°	251.6	4.7
70°-80°	168.5	3.2
80°-90°	89.9	1.7
90°-100°	125.7	2.4
100°-110°	262.4	4.9
110°-120°	407.5	7.6
120°-130°	518.1	9.7
130°-140°	571.1	10.7
140°-150°	555.1	10.4
150°-160°	465.2	8.7
160°-170°	309.2	5.8
170°-180°	108.2	2.0
0°-30°	526.7	9.9
0°-40°	853.5	16.0
0°-60°	1502.6	28.2
0°-90°	2012.5	37.7
90°-120°	795.5	14.9
90°-150°	2439.9	45.7
90°-180°	3323.0	62.3
0°-180°	5335.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	691	690	685	690	690	66
15°	660	660	656	660	657	186
25°	600	601	598	600	597	276
35°	519	523	522	524	524	325
45°	428	435	438	443	444	330
55°	329	339	350	357	360	294
65°	226	242	258	268	271	224
75°	125	143	164	177	181	132
85°	37	60	83	98	104	40
90°	12	41	70	89	97	10
95°	67	87	118	138	146	69
105°	209	225	250	268	276	223
115°	388	397	415	426	430	383
125°	563	568	582	590	593	504
135°	730	734	740	748	748	562
145°	883	886	888	892	892	552
155°	1010	1010	1010	1014	1010	465
165°	1098	1096	1097	1100	1095	310
175°	1141	1138	1138	1142	1137	108
180°	1144	1144	1144	1144	1144	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
2.5°	692.7	692.4	692.2	692.0	691.7	691.2	690.4	689.5	688.7	687.8	688.7
5°	691.1	690.7	690.5	690.2	689.8	689.2	688.1	687.1	686.0	684.9	686.2
7.5°	684.9	684.8	684.7	684.6	684.5	683.9	682.8	681.7	680.6	679.6	680.6
10°	679.6	679.6	679.6	679.6	679.6	678.9	677.7	676.5	675.3	674.1	675.2
12.5°	672.0	672.1	672.2	672.3	672.4	672.0	671.0	670.1	669.1	668.2	669.0
15°	659.9	660.0	660.2	660.3	660.5	660.0	659.0	657.9	656.9	655.9	656.7
17.5°	644.2	644.4	644.8	645.1	645.4	645.0	644.0	642.9	641.9	640.8	641.5
20°	632.8	633.1	633.4	633.7	634.0	633.6	632.6	631.5	630.4	629.4	629.8
22.5°	619.8	620.4	620.9	621.4	622.0	621.6	620.5	619.3	618.1	617.0	617.5
25°	599.6	600.0	600.5	600.9	601.4	601.2	600.3	599.4	598.4	597.5	598.2
27.5°	577.1	577.7	578.5	579.1	579.8	579.6	578.5	577.6	576.5	575.5	575.9
30°	560.3	561.2	562.1	563.0	563.9	563.9	563.0	562.1	561.2	560.3	560.6
32.5°	545.1	545.9	546.7	547.5	548.2	548.3	547.7	547.0	546.4	545.6	546.0
35°	519.0	520.0	521.1	522.1	523.2	523.5	523.1	522.5	522.1	521.7	522.1
37.5°	492.8	493.8	494.7	495.7	496.7	497.0	497.0	496.8	496.6	496.5	497.0
40°	474.9	476.2	477.3	478.6	479.7	480.3	480.1	480.0	479.8	479.7	480.3
42.5°	455.4	457.0	458.5	460.1	461.7	462.6	463.0	463.3	463.6	464.0	464.7
45°	427.5	429.2	430.8	432.5	434.2	435.3	436.1	436.8	437.6	438.4	439.4
47.5°	399.0	400.5	402.0	403.5	405.1	406.4	407.8	409.0	410.4	411.6	413.2
50°	379.4	381.0	382.7	384.4	386.0	387.7	389.3	391.0	392.6	394.3	396.0
52.5°	358.8	360.8	362.8	364.9	366.8	368.9	371.0	372.9	375.0	376.9	378.7
55°	328.6	331.0	333.4	335.8	338.2	340.6	343.0	345.4	347.9	350.3	352.0
57.5°	297.7	300.6	303.4	306.4	309.2	312.1	314.9	317.6	320.4	323.2	325.0
60°	277.1	280.1	283.1	286.1	289.2	292.1	295.2	298.2	301.2	304.2	306.5
62.5°	257.1	260.0	263.1	266.1	269.1	272.2	275.4	278.7	282.0	285.3	287.8
65°	226.3	229.8	233.2	236.7	240.1	243.7	247.3	250.9	254.5	258.2	260.4
67.5°	197.3	200.6	203.9	207.3	210.6	214.2	217.8	221.5	225.2	228.9	231.6
70°	176.1	179.6	183.1	186.5	190.0	193.7	197.6	201.5	205.5	209.4	212.2
72.5°	155.5	159.2	162.7	166.3	169.9	173.8	178.1	182.4	186.6	190.9	194.0
75°	124.7	128.6	132.5	136.4	140.4	144.7	149.5	154.4	159.2	164.0	166.9
77.5°	95.0	99.5	104.1	108.5	113.1	117.6	122.3	126.9	131.5	136.2	139.5
80°	76.6	81.1	85.6	90.2	94.6	99.4	104.6	109.7	114.8	119.9	123.2
82.5°	59.7	64.5	69.3	74.0	78.8	83.8	89.0	94.3	99.5	104.8	107.9
85°	37.3	42.3	47.2	52.2	57.2	62.2	67.5	72.8	78.0	83.4	86.7
87.5°	21.3	26.5	31.6	36.7	41.8	47.1	52.5	57.9	63.3	68.7	72.4
90°	11.8	18.1	24.5	30.9	37.4	43.8	50.3	56.8	63.3	69.8	74.3
92.5°	31.3	36.8	42.4	48.0	53.6	59.8	66.8	73.7	80.6	87.6	92.2
95°	66.7	71.0	75.3	79.6	83.9	89.6	96.8	103.8	110.9	118.0	122.7
97.5°	104.2	107.8	111.5	115.2	118.9	124.6	132.2	139.9	147.6	155.2	159.7
100°	132.1	135.3	138.4	141.6	144.7	150.0	157.4	164.8	172.2	179.6	184.5
102.5°	162.2	165.9	169.6	173.3	177.0	181.9	187.9	193.9	199.9	205.9	210.9
105°	209.1	212.5	215.9	219.3	222.7	227.2	232.9	238.6	244.3	250.0	254.2
107.5°	261.0	264.0	267.1	270.1	273.1	277.2	282.5	287.8	293.0	298.3	301.8
110°	296.8	299.5	302.3	305.1	307.9	311.7	316.6	321.4	326.2	331.0	334.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	333.8	335.7	337.7	339.7	341.6	345.0	349.9	354.7	359.5	364.4	367.4
115°	387.7	389.6	391.5	393.3	395.1	398.2	402.5	406.8	411.2	415.4	417.9
117.5°	441.9	443.0	444.0	445.1	446.1	448.7	452.7	456.8	460.8	464.9	467.6
120°	476.1	477.5	479.0	480.5	481.9	484.4	488.1	491.8	495.4	499.1	501.6
122.5°	512.6	513.2	513.7	514.3	514.9	517.1	520.9	524.8	528.6	532.5	534.8
125°	562.7	563.7	564.7	565.8	566.9	568.9	572.1	575.3	578.5	581.8	583.8
127.5°	615.4	615.9	616.4	617.0	617.5	619.1	621.8	624.6	627.2	629.9	632.0
130°	647.5	648.3	649.2	650.0	650.8	652.5	655.0	657.5	660.0	662.5	664.4
132.5°	678.9	680.6	682.2	683.8	685.4	686.9	688.5	690.0	691.5	693.1	695.0
135°	729.6	730.6	731.6	732.7	733.7	734.9	736.1	737.4	738.6	739.9	741.8
137.5°	777.1	778.2	779.2	780.2	781.2	782.2	783.2	784.2	785.1	786.0	788.1
140°	807.3	808.2	809.2	810.2	811.2	812.1	812.8	813.5	814.3	815.0	817.1
142.5°	837.9	838.6	839.3	840.0	840.7	841.4	842.2	843.0	843.8	844.5	846.2
145°	882.9	883.5	884.2	884.8	885.5	886.1	886.7	887.3	887.9	888.5	889.2
147.5°	923.9	924.3	924.8	925.2	925.6	926.1	926.6	927.0	927.5	928.0	928.7
150°	951.6	951.5	951.3	951.1	950.9	951.2	952.0	952.8	953.5	954.3	954.3
152.5°	974.5	974.7	975.0	975.3	975.5	975.9	976.2	976.5	976.8	977.1	977.6
155°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.6	1009.9	1010.0	1010.2	1010.4	1011.2
157.5°	1040.9	1040.4	1040.0	1039.6	1039.1	1039.0	1039.2	1039.4	1039.6	1039.8	1040.6
160°	1059.4	1058.8	1058.2	1057.6	1057.0	1056.9	1057.0	1057.2	1057.4	1057.6	1058.4
162.5°	1075.8	1075.3	1074.9	1074.4	1074.1	1073.8	1073.9	1073.9	1074.0	1074.0	1075.0
165°	1097.7	1097.3	1096.9	1096.4	1096.1	1096.0	1096.2	1096.4	1096.5	1096.8	1097.6
167.5°	1116.2	1115.4	1114.6	1113.8	1113.0	1112.6	1112.6	1112.6	1112.6	1112.6	1113.8
170°	1126.1	1125.3	1124.5	1123.8	1123.0	1122.6	1122.6	1122.6	1122.6	1122.6	1123.8
172.5°	1133.3	1132.5	1131.7	1130.9	1130.2	1129.7	1129.7	1129.7	1129.7	1129.7	1130.9
175°	1141.3	1140.5	1139.7	1138.9	1138.1	1137.7	1137.7	1137.7	1137.7	1137.7	1138.9
177.5°	1145.4	1144.8	1144.2	1143.4	1142.8	1142.5	1142.3	1142.1	1142.0	1141.8	1142.8
180°	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
2.5°	689.5	690.4	691.2	691.5	691.4	691.3	691.2	691.1
5°	687.3	688.6	689.7	690.3	690.2	690.0	689.8	689.7
7.5°	681.6	682.7	683.8	684.2	684.0	683.9	683.8	683.6
10°	676.3	677.3	678.3	678.8	678.7	678.5	678.3	678.1
12.5°	669.8	670.6	671.5	671.6	671.2	670.8	670.5	670.0
15°	657.6	658.5	659.4	659.6	659.0	658.4	657.8	657.2
17.5°	642.2	642.8	643.5	643.7	643.4	643.0	642.7	642.3
20°	630.4	630.8	631.2	631.4	631.4	631.4	631.4	631.4
22.5°	618.0	618.7	619.2	619.3	618.9	618.6	618.2	617.9
25°	598.8	599.4	599.9	599.9	599.1	598.4	597.6	596.9
27.5°	576.3	576.8	577.2	577.2	576.9	576.7	576.4	576.1
30°	560.9	561.2	561.5	561.6	561.4	561.2	561.2	561.0
32.5°	546.3	546.5	546.9	547.0	546.8	546.6	546.5	546.4
35°	522.5	523.1	523.5	523.7	523.7	523.7	523.7	523.7
37.5°	497.7	498.3	498.9	499.2	499.1	499.0	499.0	498.9
40°	480.9	481.5	482.1	482.5	482.9	483.1	483.5	483.8
42.5°	465.4	466.1	466.8	467.3	467.3	467.3	467.4	467.5
45°	440.4	441.5	442.6	443.2	443.4	443.4	443.6	443.8
47.5°	414.7	416.3	417.8	418.7	419.1	419.4	419.7	420.1
50°	397.6	399.3	400.9	402.0	402.4	402.9	403.3	403.8
52.5°	380.5	382.3	384.1	385.1	385.5	385.8	386.1	386.5
55°	353.6	355.3	356.9	358.0	358.6	359.3	359.8	360.4
57.5°	327.0	328.9	330.7	331.9	332.4	332.9	333.3	333.8
60°	308.7	310.9	313.3	314.6	315.0	315.5	315.9	316.4
62.5°	290.3	292.7	295.2	296.8	297.3	297.9	298.5	299.1
65°	262.6	264.9	267.2	268.6	269.2	269.8	270.4	271.0
67.5°	234.3	237.1	239.8	241.6	242.4	243.2	244.0	244.7
70°	215.1	217.9	220.8	222.7	223.6	224.4	225.4	226.3
72.5°	197.2	200.2	203.3	205.2	205.9	206.5	207.2	207.9
75°	170.0	173.0	176.0	177.9	178.6	179.4	180.1	180.9
77.5°	142.8	146.2	149.5	151.4	151.9	152.6	153.2	153.8
80°	126.5	129.8	133.1	135.1	135.7	136.3	137.0	137.5
82.5°	111.1	114.3	117.5	119.7	120.7	121.8	122.9	123.9
85°	90.0	93.3	96.6	98.8	100.0	101.2	102.5	103.6
87.5°	76.1	79.7	83.4	85.8	86.9	88.1	89.3	90.4
90°	78.7	83.2	87.6	90.7	92.3	94.0	95.6	97.3
92.5°	96.8	101.5	106.2	109.2	110.8	112.2	113.7	115.2
95°	127.4	132.1	136.8	139.9	141.3	142.8	144.2	145.7
97.5°	164.2	168.6	173.1	175.9	177.2	178.4	179.8	181.0
100°	189.5	194.4	199.3	202.4	203.8	205.1	206.3	207.7
102.5°	215.9	220.8	225.8	229.0	230.5	231.9	233.4	234.9
105°	258.4	262.6	266.8	269.7	271.4	273.0	274.6	276.3
107.5°	305.4	309.0	312.5	314.8	315.7	316.6	317.4	318.3
110°	337.9	341.3	344.8	347.0	347.8	348.7	349.5	350.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	370.4	373.4	376.5	378.4	379.1	379.7	380.4	381.1
115°	420.4	423.0	425.5	427.1	427.8	428.6	429.3	429.9
117.5°	470.4	473.1	475.8	477.2	477.5	477.7	478.0	478.2
120°	504.2	506.8	509.3	510.6	510.8	510.9	511.0	511.0
122.5°	537.1	539.3	541.6	542.9	543.1	543.4	543.7	543.9
125°	585.8	587.8	589.9	591.1	591.7	592.2	592.8	593.3
127.5°	634.0	636.1	638.0	639.4	639.8	640.2	640.8	641.2
130°	666.3	668.2	670.1	671.3	671.6	672.0	672.3	672.7
132.5°	696.9	698.8	700.7	701.7	701.8	701.9	702.0	702.0
135°	743.8	745.7	747.7	748.7	748.6	748.6	748.5	748.5
137.5°	790.1	792.1	794.1	794.9	794.5	794.2	793.7	793.4
140°	819.1	821.2	823.2	824.1	823.7	823.3	822.9	822.5
142.5°	847.8	849.5	851.2	851.9	851.4	851.0	850.7	850.2
145°	889.9	890.7	891.4	891.9	891.9	891.9	891.9	891.9
147.5°	929.4	930.1	930.9	930.7	929.6	928.5	927.5	926.4
150°	954.3	954.3	954.3	954.2	954.0	953.7	953.5	953.2
152.5°	978.1	978.6	979.0	978.9	978.2	977.6	976.9	976.2
155°	1012.0	1012.8	1013.6	1013.5	1012.5	1011.5	1010.5	1009.5
157.5°	1041.3	1042.1	1042.9	1042.7	1041.4	1040.1	1038.8	1037.5
160°	1059.2	1060.0	1060.8	1060.7	1059.7	1058.7	1057.7	1056.7
162.5°	1075.8	1076.8	1077.8	1077.7	1076.6	1075.4	1074.2	1073.1
165°	1098.3	1099.1	1099.9	1099.7	1098.6	1097.3	1096.2	1095.0
167.5°	1115.0	1116.2	1117.4	1117.3	1116.2	1114.9	1113.7	1112.4
170°	1125.0	1126.1	1127.3	1127.2	1125.9	1124.4	1123.1	1121.7
172.5°	1132.1	1133.3	1134.4	1134.4	1133.2	1132.0	1130.8	1129.5
175°	1140.1	1141.3	1142.5	1142.4	1141.0	1139.6	1138.2	1136.8
177.5°	1143.7	1144.7	1145.6	1145.6	1144.4	1143.4	1142.2	1141.1
180°	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0

(END OF REPORT)