

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: P333360-930

Luminaire Tested: **S125DIW-S375D1340U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333360-930
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-S375D1340U930-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5566.3 lumens
Efficiency: N/A
Efficacy: 119.4 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

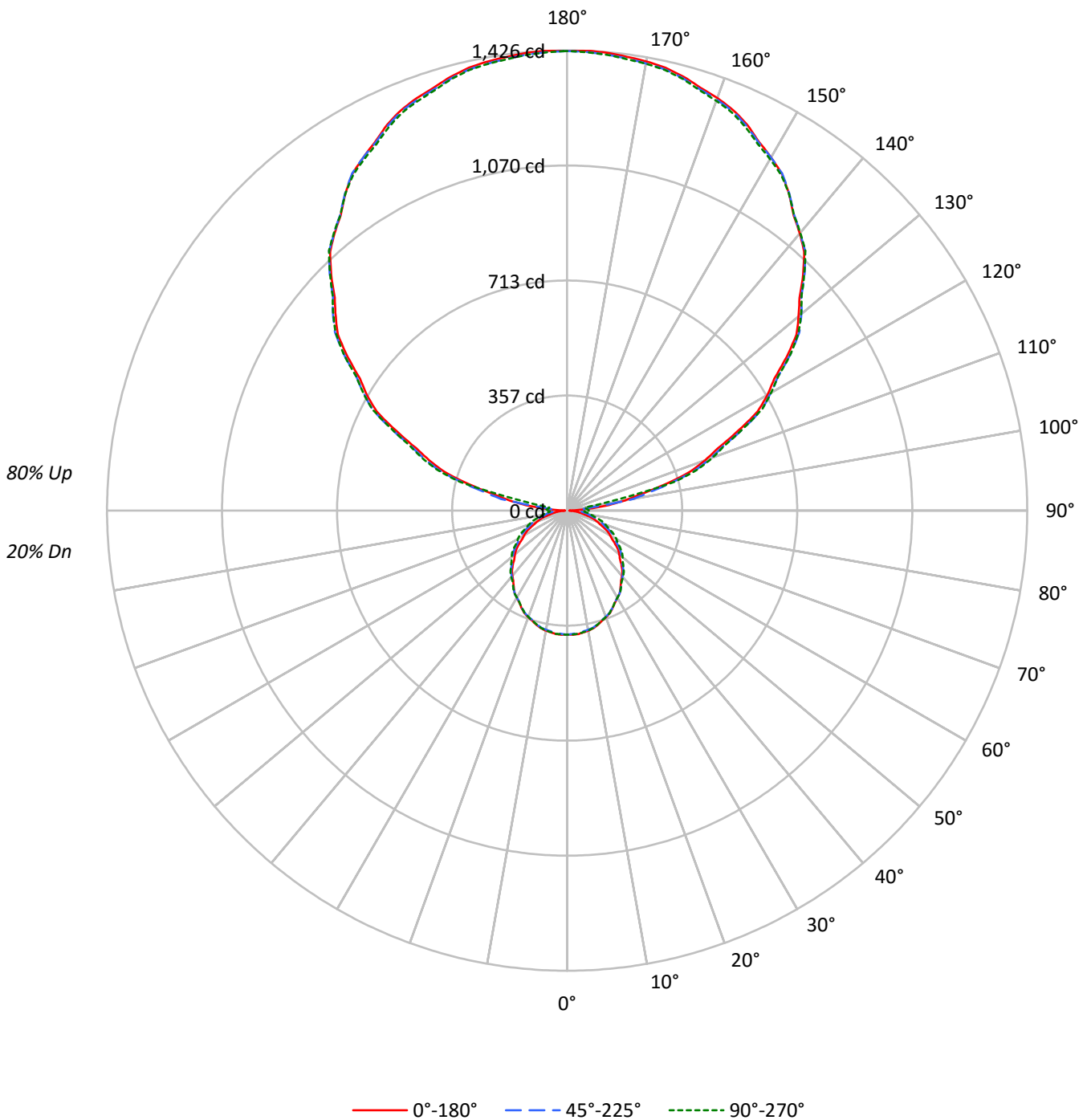
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29
1	91	87	83	79	80	77	73	71	58	56	54	41	39	38	25	24	24
2	82	75	69	64	73	67	62	58	50	47	44	35	33	32	22	21	20
3	75	66	59	53	66	58	53	48	44	40	37	31	29	27	19	18	16
4	69	58	51	45	60	52	45	40	39	35	31	28	25	23	17	15	14
5	63	52	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12
6	58	46	38	33	51	41	34	29	31	27	23	22	19	17	14	12	11
7	53	41	34	28	47	37	30	26	28	24	20	20	17	15	12	11	9
8	49	37	30	25	43	33	27	22	26	21	18	18	15	13	11	10	8
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	10	9	7
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2482	2482	2482
5°	2487	2436	2444
10°	2469	2393	2389
15°	2440	2341	2319
20°	2401	2276	2249
25°	2354	2207	2164
30°	2296	2132	2086
35°	2243	2062	2014
40°	2189	1989	1942
45°	2127	1926	1878
50°	2069	1858	1821
55°	1998	1793	1756
60°	1921	1720	1687
65°	1842	1644	1612
70°	1750	1538	1534
75°	1605	1438	1437
80°	1417	1316	1333
85°	1239	1232	1299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	0.7
10°-20°	103.2	1.9
20°-30°	153.4	2.8
30°-40°	181.7	3.3
40°-50°	187.9	3.4
50°-60°	173.1	3.1
60°-70°	139.9	2.5
70°-80°	93.7	1.7
80°-90°	51.6	0.9
90°-100°	79.0	1.4
100°-110°	339.0	6.1
110°-120°	591.9	10.6
120°-130°	750.0	13.5
130°-140°	801.8	14.4
140°-150°	750.1	13.5
150°-160°	606.3	10.9
160°-170°	392.1	7.0
170°-180°	135.2	2.4
0°-30°	292.9	5.3
0°-40°	474.7	8.5
0°-60°	835.7	15.0
0°-90°	1120.9	20.1
90°-120°	1010.0	18.1
90°-150°	3311.9	59.5
90°-180°	4445.0	79.9
0°-180°	5566.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	384	381	384	384	36
15°	367	367	365	367	366	103
25°	334	334	332	334	332	153
35°	289	291	290	291	291	181
45°	238	242	244	246	247	183
55°	183	189	195	199	200	163
65°	126	134	144	149	151	125
75°	69	79	91	98	101	74
85°	21	33	46	54	58	22
90°	7	28	48	61	68	7
95°	65	70	44	57	61	81
105°	314	324	335	342	344	333
115°	585	593	604	606	602	580
125°	830	837	845	846	845	741
135°	1034	1040	1041	1043	1039	797
145°	1198	1200	1200	1203	1198	749
155°	1320	1314	1315	1318	1310	608
165°	1392	1386	1387	1393	1385	393
175°	1424	1418	1419	1426	1418	136
180°	1424	1424	1424	1424	1424	



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CATALOG NUMBER: S125DIW-S375D1340U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.2	385.1	385.0	384.8	384.7	384.4	383.9	383.4	383.0	382.5	383.0
5°	384.3	384.2	384.0	383.8	383.7	383.3	382.7	382.1	381.6	380.9	381.6
7.5°	380.9	380.9	380.8	380.7	380.7	380.3	379.8	379.1	378.5	377.9	378.5
10°	377.9	377.9	377.9	377.9	377.9	377.6	376.9	376.3	375.6	374.9	375.5
12.5°	373.7	373.8	373.8	373.9	374.0	373.7	373.2	372.7	372.1	371.6	372.0
15°	367.0	367.0	367.1	367.3	367.4	367.0	366.5	365.9	365.3	364.8	365.3
17.5°	358.2	358.4	358.6	358.7	358.9	358.7	358.2	357.5	356.9	356.4	356.8
20°	352.0	352.1	352.3	352.5	352.6	352.4	351.8	351.2	350.7	350.0	350.3
22.5°	344.7	345.0	345.3	345.6	345.9	345.7	345.0	344.4	343.7	343.1	343.4
25°	333.5	333.7	333.9	334.2	334.4	334.4	333.9	333.4	332.8	332.3	332.6
27.5°	321.0	321.3	321.7	322.0	322.5	322.4	321.8	321.2	320.7	320.1	320.2
30°	311.6	312.1	312.6	313.2	313.6	313.6	313.2	312.6	312.1	311.6	311.8
32.5°	303.2	303.6	304.0	304.5	304.9	304.9	304.6	304.2	303.9	303.5	303.6
35°	288.6	289.2	289.8	290.4	291.0	291.1	290.9	290.7	290.4	290.2	290.4
37.5°	274.1	274.6	275.2	275.7	276.2	276.5	276.4	276.3	276.2	276.1	276.5
40°	264.2	264.8	265.5	266.1	266.8	267.1	267.0	266.9	266.8	266.8	267.1
42.5°	253.3	254.1	255.0	255.9	256.7	257.3	257.5	257.6	257.9	258.0	258.4
45°	237.7	238.7	239.6	240.5	241.4	242.1	242.6	243.0	243.4	243.8	244.3
47.5°	221.8	222.7	223.6	224.5	225.3	226.1	226.8	227.5	228.2	228.9	229.8
50°	211.0	211.9	212.9	213.8	214.7	215.6	216.5	217.4	218.3	219.3	220.2
52.5°	199.6	200.6	201.8	202.9	204.1	205.1	206.3	207.4	208.6	209.6	210.7
55°	182.7	184.1	185.4	186.8	188.1	189.5	190.8	192.1	193.5	194.8	195.8
57.5°	165.6	167.1	168.8	170.4	172.0	173.6	175.1	176.7	178.2	179.7	180.8
60°	154.1	155.8	157.4	159.1	160.8	162.5	164.1	165.8	167.5	169.2	170.4
62.5°	142.9	144.6	146.3	148.0	149.7	151.4	153.2	155.0	156.9	158.7	160.0
65°	125.9	127.8	129.7	131.6	133.5	135.5	137.5	139.6	141.5	143.6	144.8
67.5°	109.7	111.6	113.4	115.3	117.2	119.1	121.2	123.2	125.2	127.3	128.8
70°	98.0	99.9	101.8	103.7	105.7	107.7	109.9	112.1	114.2	116.4	118.1
72.5°	86.5	88.5	90.5	92.5	94.5	96.7	99.1	101.4	103.8	106.2	107.9
75°	69.3	71.5	73.7	75.8	78.0	80.5	83.2	85.9	88.5	91.2	92.9
77.5°	52.8	55.4	57.9	60.3	62.9	65.4	68.0	70.6	73.1	75.7	77.6
80°	42.6	45.1	47.6	50.1	52.6	55.3	58.1	61.0	63.8	66.7	68.6
82.5°	33.3	35.9	38.6	41.2	43.8	46.6	49.5	52.4	55.4	58.2	60.0
85°	20.7	23.5	26.3	29.0	31.8	34.7	37.6	40.5	43.5	46.3	48.2
87.5°	12.0	15.0	18.1	21.1	24.2	27.3	30.5	33.7	36.9	40.0	42.2
90°	7.1	11.7	16.2	20.8	25.3	29.8	34.3	38.8	43.3	47.8	50.9
92.5°	21.7	22.8	24.1	25.2	26.3	29.1	33.5	37.8	42.2	46.6	49.7
95°	65.1	66.5	68.0	69.5	70.9	68.6	62.6	56.5	50.5	44.4	47.5
97.5°	130.0	133.3	136.5	139.7	143.0	137.1	122.2	107.4	92.5	77.5	72.7
100°	180.4	182.9	185.3	187.8	190.3	193.3	197.0	200.6	204.2	207.8	174.6
102.5°	231.6	234.2	236.7	239.2	241.7	244.6	247.7	250.9	254.0	257.2	252.3
105°	313.7	316.0	318.3	320.6	322.9	325.2	327.8	330.3	332.8	335.3	337.0
107.5°	399.0	400.1	401.3	402.4	403.6	405.5	408.5	411.3	414.2	417.1	418.8
110°	454.4	455.4	456.5	457.5	458.4	460.4	463.2	466.0	468.8	471.7	472.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	506.8	508.2	509.6	510.9	512.3	514.2	516.8	519.3	521.9	524.5	525.1
115°	585.0	586.7	588.5	590.2	592.0	594.1	596.5	598.9	601.3	603.7	604.3
117.5°	665.9	666.2	666.5	666.9	667.2	668.9	671.8	674.7	677.7	680.7	680.9
120°	716.6	716.6	716.6	716.6	716.6	718.0	720.6	723.2	725.8	728.5	729.4
122.5°	761.0	762.0	763.0	764.0	765.0	766.6	768.8	771.0	773.1	775.3	776.2
125°	830.1	831.7	833.2	834.9	836.4	838.0	839.7	841.4	843.0	844.7	845.1
127.5°	895.9	896.9	898.1	899.1	900.3	901.4	902.6	903.8	905.1	906.3	907.0
130°	936.4	937.5	938.6	939.6	940.8	942.0	943.4	944.9	946.2	947.6	948.1
132.5°	976.6	978.0	979.3	980.6	982.0	982.8	983.3	983.7	984.1	984.4	985.5
135°	1034.2	1035.5	1036.8	1038.2	1039.5	1040.2	1040.3	1040.4	1040.6	1040.6	1041.3
137.5°	1087.1	1088.3	1089.4	1090.5	1091.7	1092.3	1092.1	1091.9	1091.8	1091.7	1092.7
140°	1121.4	1121.9	1122.3	1122.8	1123.3	1123.5	1123.3	1123.2	1123.0	1122.8	1124.2
142.5°	1152.7	1152.9	1153.1	1153.3	1153.6	1153.8	1154.1	1154.5	1154.9	1155.2	1156.1
145°	1198.5	1198.9	1199.2	1199.6	1200.0	1200.2	1200.2	1200.2	1200.2	1200.2	1200.9
147.5°	1238.2	1238.1	1238.0	1238.0	1237.9	1238.0	1238.2	1238.5	1238.8	1239.1	1239.5
150°	1263.6	1263.1	1262.7	1262.2	1261.7	1261.7	1262.2	1262.7	1263.1	1263.6	1264.0
152.5°	1288.0	1287.0	1286.0	1285.0	1283.9	1283.6	1284.1	1284.6	1285.1	1285.5	1286.0
155°	1319.5	1318.1	1316.7	1315.3	1313.9	1313.4	1313.9	1314.3	1314.8	1315.3	1316.0
157.5°	1343.8	1343.0	1342.1	1341.2	1340.4	1340.0	1340.0	1340.1	1340.2	1340.2	1340.9
160°	1360.7	1359.3	1357.9	1356.4	1355.0	1354.5	1354.7	1354.9	1355.2	1355.4	1356.3
162.5°	1374.2	1372.8	1371.3	1369.9	1368.6	1368.0	1368.2	1368.5	1368.6	1368.9	1370.2
165°	1392.4	1390.9	1389.5	1388.1	1386.7	1386.1	1386.3	1386.6	1386.8	1387.1	1388.5
167.5°	1405.8	1404.4	1403.0	1401.5	1400.0	1399.5	1399.6	1399.9	1400.1	1400.4	1402.1
170°	1413.5	1411.9	1410.1	1408.5	1406.9	1406.1	1406.4	1406.6	1406.9	1407.1	1409.0
172.5°	1418.5	1416.9	1415.3	1413.6	1411.9	1411.4	1411.8	1412.2	1412.6	1413.0	1414.7
175°	1424.0	1422.6	1421.2	1419.8	1418.4	1417.8	1418.1	1418.3	1418.5	1418.7	1420.6
177.5°	1426.5	1425.4	1424.3	1423.2	1422.0	1421.6	1421.8	1422.0	1422.1	1422.3	1423.7
180°	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	383.4	383.9	384.4	384.6	384.5	384.5	384.4	384.3
5°	382.3	382.9	383.6	383.9	383.8	383.8	383.7	383.6
7.5°	379.1	379.7	380.3	380.5	380.4	380.3	380.3	380.2
10°	376.1	376.7	377.2	377.5	377.4	377.3	377.2	377.2
12.5°	372.5	372.9	373.4	373.5	373.3	373.1	372.8	372.7
15°	365.7	366.2	366.7	366.8	366.5	366.2	365.8	365.5
17.5°	357.2	357.5	357.9	358.0	357.8	357.6	357.4	357.2
20°	350.6	350.8	351.1	351.1	351.1	351.1	351.1	351.1
22.5°	343.7	344.1	344.4	344.5	344.2	344.1	343.8	343.6
25°	333.0	333.4	333.7	333.6	333.2	332.8	332.4	332.0
27.5°	320.5	320.7	321.0	321.1	320.9	320.7	320.6	320.4
30°	311.9	312.1	312.3	312.3	312.3	312.2	312.1	312.0
32.5°	303.8	303.9	304.1	304.2	304.1	304.0	303.9	303.9
35°	290.7	290.9	291.1	291.2	291.2	291.2	291.2	291.2
37.5°	276.8	277.1	277.4	277.6	277.6	277.5	277.5	277.4
40°	267.4	267.7	268.2	268.4	268.6	268.7	268.9	269.0
42.5°	258.9	259.3	259.7	259.8	259.9	259.9	259.9	260.0
45°	245.0	245.6	246.1	246.5	246.5	246.6	246.7	246.8
47.5°	230.6	231.5	232.4	232.8	233.1	233.3	233.4	233.6
50°	221.1	222.1	223.0	223.6	223.8	224.0	224.3	224.5
52.5°	211.7	212.6	213.6	214.2	214.3	214.6	214.7	214.9
55°	196.7	197.5	198.5	199.1	199.4	199.7	200.2	200.5
57.5°	181.8	182.9	183.9	184.6	184.8	185.1	185.4	185.6
60°	171.7	172.9	174.2	175.0	175.2	175.5	175.7	175.9
62.5°	161.4	162.8	164.2	165.0	165.3	165.7	166.0	166.3
65°	146.1	147.3	148.5	149.4	149.7	150.0	150.4	150.7
67.5°	130.4	131.8	133.4	134.4	134.8	135.3	135.7	136.1
70°	119.6	121.2	122.8	123.8	124.3	124.8	125.3	125.9
72.5°	109.7	111.4	113.1	114.1	114.5	114.9	115.2	115.6
75°	94.6	96.2	97.9	98.9	99.4	99.8	100.2	100.6
77.5°	79.4	81.3	83.1	84.2	84.5	84.9	85.2	85.5
80°	70.4	72.2	74.0	75.2	75.5	75.8	76.1	76.5
82.5°	61.8	63.6	65.4	66.5	67.2	67.8	68.3	69.0
85°	50.1	51.9	53.7	55.0	55.6	56.3	57.0	57.6
87.5°	44.4	46.5	48.7	50.1	50.8	51.5	52.3	53.0
90°	54.0	57.1	60.2	62.4	63.7	65.0	66.3	67.5
92.5°	52.7	55.7	58.7	60.7	61.6	62.5	63.4	64.3
95°	50.4	53.4	56.4	58.3	58.9	59.4	60.0	60.6
97.5°	67.8	63.0	58.1	56.0	56.6	57.2	57.7	58.3
100°	141.4	108.2	75.0	58.2	57.8	57.3	56.9	56.4
102.5°	247.4	242.5	237.6	227.4	211.9	196.5	181.0	165.6
105°	338.7	340.3	342.0	343.0	343.3	343.7	344.1	344.4
107.5°	420.5	422.2	423.9	424.7	424.4	424.3	424.1	424.0
110°	473.4	474.3	475.2	476.1	476.9	477.7	478.5	479.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	525.7	526.4	527.0	527.4	527.7	528.0	528.2	528.5
115°	604.9	605.4	606.0	605.8	605.0	604.1	603.1	602.2
117.5°	681.1	681.3	681.5	681.6	681.5	681.5	681.4	681.4
120°	730.3	731.3	732.2	732.4	731.7	731.1	730.3	729.7
122.5°	777.1	778.0	778.9	778.9	778.0	777.2	776.3	775.5
125°	845.5	845.9	846.3	846.4	846.1	845.8	845.5	845.2
127.5°	907.8	908.5	909.2	909.0	907.7	906.4	905.2	903.9
130°	948.6	949.0	949.5	949.3	948.6	947.9	947.1	946.3
132.5°	986.5	987.5	988.6	988.6	987.8	987.0	986.2	985.4
135°	1042.0	1042.5	1043.2	1042.9	1042.0	1041.0	1040.0	1039.0
137.5°	1093.8	1094.9	1096.0	1096.1	1095.2	1094.3	1093.5	1092.6
140°	1125.6	1127.1	1128.5	1128.6	1127.5	1126.4	1125.4	1124.3
142.5°	1157.0	1157.8	1158.7	1158.6	1157.6	1156.5	1155.4	1154.3
145°	1201.5	1202.2	1202.8	1202.6	1201.6	1200.4	1199.4	1198.3
147.5°	1239.9	1240.3	1240.7	1240.2	1238.6	1237.1	1235.6	1234.0
150°	1264.5	1264.9	1265.4	1264.8	1263.0	1261.2	1259.4	1257.6
152.5°	1286.5	1286.9	1287.4	1286.8	1285.2	1283.4	1281.8	1280.1
155°	1316.7	1317.4	1318.1	1317.5	1315.6	1313.8	1311.9	1310.0
157.5°	1341.7	1342.5	1343.2	1342.6	1340.8	1338.9	1337.0	1335.1
160°	1357.3	1358.2	1359.2	1358.7	1356.8	1354.9	1353.1	1351.2
162.5°	1371.5	1372.9	1374.2	1373.8	1371.7	1369.6	1367.6	1365.5
165°	1389.8	1391.3	1392.7	1392.4	1390.6	1388.7	1386.8	1384.9
167.5°	1403.8	1405.4	1407.1	1406.9	1404.8	1402.7	1400.6	1398.5
170°	1410.9	1412.8	1414.6	1414.5	1412.4	1410.3	1408.2	1406.1
172.5°	1416.4	1418.1	1419.8	1419.6	1417.5	1415.4	1413.2	1411.1
175°	1422.5	1424.3	1426.2	1426.1	1424.0	1421.9	1419.8	1417.6
177.5°	1425.0	1426.3	1427.6	1427.5	1426.0	1424.5	1422.9	1421.5
180°	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0

(END OF REPORT)