

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: P333632-935

Luminaire Tested: **S125RDIP-S1270D1035U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333632-935
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: S125RDIP-S1270D1035U935-4F0-1E-UDD-F1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7283.5 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

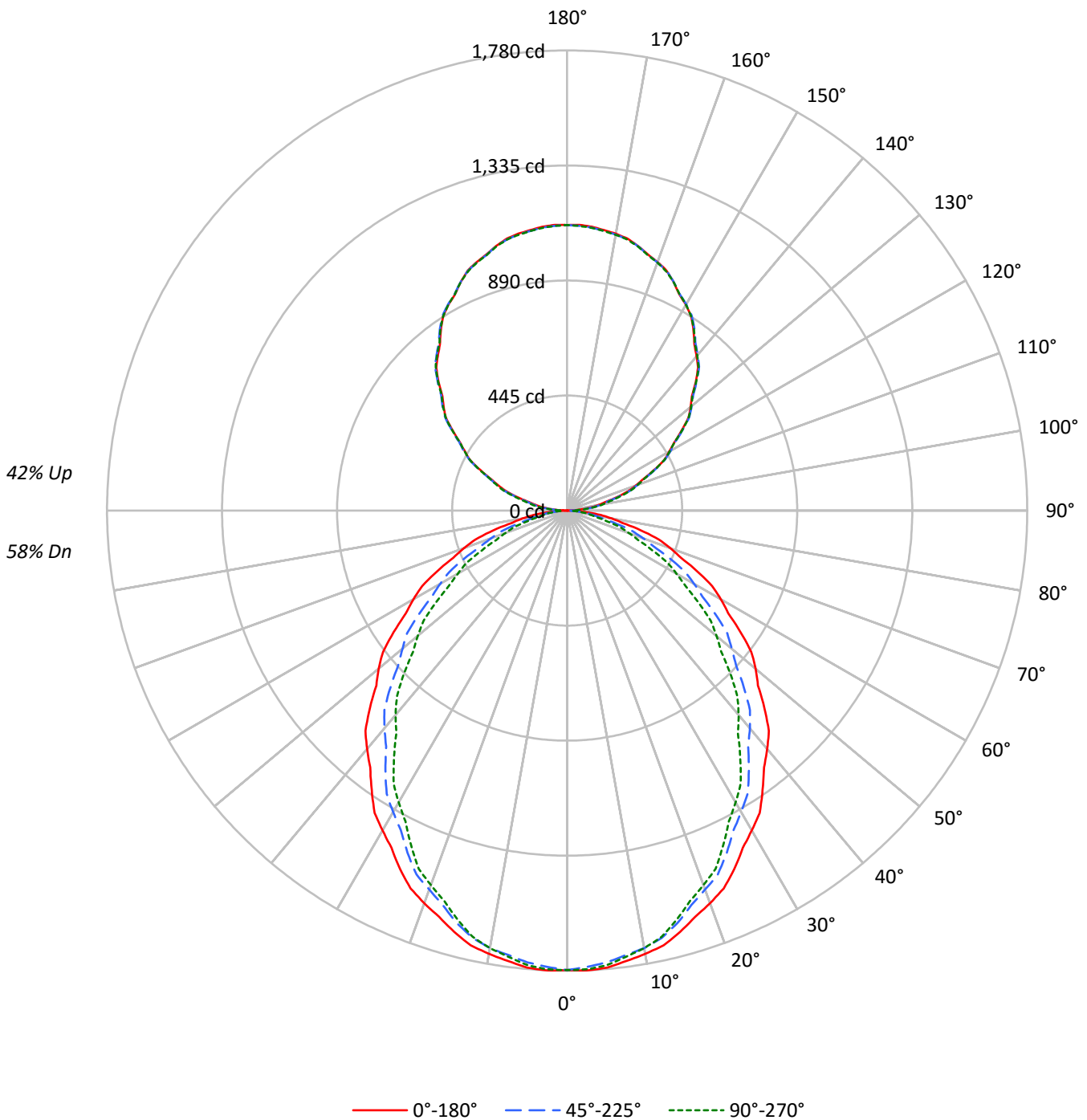
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58																				
1	100	95	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54	49																				
2	91	84	78	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42																				
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	42	39	35																				
4	76	65	58	52	71	61	54	49	54	48	44	46	42	39	40	37	34	31																				
5	70	58	50	44	65	55	48	42	48	42	38	42	37	34	36	32	30	27																				
6	65	53	44	39	60	49	42	37	43	38	33	38	33	30	33	29	26	24																				
7	60	48	40	34	56	45	38	32	39	34	29	35	30	26	30	26	23	21																				
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	27	24	21	19																				
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	25	22	19	17																				
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	15																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11479	11479	11479
5°	11505	11374	11444
10°	11418	11269	11269
15°	11282	11040	10950
20°	11109	10721	10592
25°	10905	10408	10178
30°	10651	10041	9721
35°	10394	9663	9208
40°	10151	9269	8703
45°	9858	8828	8153
50°	9562	8349	7580
55°	9221	7891	6969
60°	8878	7334	6311
65°	8472	6687	5559
70°	8010	5880	4791
75°	7369	4956	3985
80°	6490	3894	3347
85°	5476	3186	2986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	2.3
10°-20°	467.1	6.4
20°-30°	677.3	9.3
30°-40°	771.9	10.6
40°-50°	752.4	10.3
50°-60°	633.3	8.7
60°-70°	444.0	6.1
70°-80°	228.2	3.1
80°-90°	60.1	0.8
90°-100°	74.0	1.0
100°-110°	218.5	3.0
110°-120°	370.0	5.1
120°-130°	487.0	6.7
130°-140°	545.7	7.5
140°-150°	534.8	7.3
150°-160°	449.2	6.2
160°-170°	298.6	4.1
170°-180°	104.5	1.4
0°-30°	1311.5	18.0
0°-40°	2083.3	28.6
0°-60°	3469.1	47.6
0°-90°	4201.3	57.7
90°-120°	662.5	9.1
90°-150°	2229.9	30.6
90°-180°	3082.0	42.3
0°-180°	7283.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1775	1769	1754	1767	1765	168
15°	1687	1678	1651	1649	1638	475
25°	1530	1509	1460	1443	1428	704
35°	1318	1284	1226	1188	1168	825
45°	1079	1038	967	915	893	832
55°	819	774	701	642	619	732
65°	554	507	438	386	364	549
75°	295	254	199	170	160	313
85°	74	51	43	42	40	83
90°	1	8	14	18	21	7
95°	56	58	66	72	74	60
105°	196	200	205	210	213	209
115°	370	374	376	375	374	366
125°	541	546	547	545	544	484
135°	703	708	709	709	706	542
145°	852	855	858	858	855	532
155°	975	975	976	979	975	449
165°	1060	1058	1059	1062	1057	299
175°	1102	1099	1098	1103	1098	105
180°	1105	1105	1105	1105	1105	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4
2.5°	1780.5	1779.9	1779.1	1778.4	1777.7	1776.2	1773.7	1771.3	1769.0	1766.6	1769.0
5°	1774.7	1773.5	1772.3	1771.1	1769.9	1767.6	1764.4	1761.1	1757.8	1754.5	1757.5
7.5°	1757.2	1756.1	1755.0	1753.8	1752.7	1750.2	1746.2	1742.2	1738.4	1734.4	1736.5
10°	1741.1	1740.2	1739.3	1738.4	1737.5	1735.0	1730.8	1726.6	1722.4	1718.3	1719.2
12.5°	1722.9	1721.7	1720.5	1719.4	1718.3	1714.9	1709.3	1703.7	1698.1	1692.5	1693.2
15°	1687.4	1685.6	1683.9	1682.0	1680.2	1676.2	1669.9	1663.7	1657.4	1651.1	1650.9
17.5°	1647.4	1644.7	1641.9	1639.2	1636.4	1631.1	1623.2	1615.3	1607.5	1599.6	1598.1
20°	1616.3	1613.3	1610.2	1607.3	1604.3	1598.0	1588.5	1579.0	1569.4	1559.9	1558.4
22.5°	1581.9	1578.9	1575.9	1573.0	1569.9	1563.5	1553.4	1543.4	1533.4	1523.4	1520.4
25°	1530.3	1525.9	1521.4	1516.9	1512.4	1504.7	1493.7	1482.6	1471.5	1460.5	1456.6
27.5°	1471.3	1465.9	1460.4	1455.0	1449.6	1441.0	1429.1	1417.3	1405.5	1393.7	1388.3
30°	1428.3	1422.6	1416.9	1411.4	1405.7	1396.5	1384.0	1371.5	1358.9	1346.4	1339.5
32.5°	1386.5	1379.8	1373.2	1366.6	1359.9	1350.2	1337.5	1324.7	1311.9	1299.2	1291.6
35°	1318.3	1311.0	1303.9	1296.8	1289.6	1279.3	1265.8	1252.5	1239.1	1225.6	1216.9
37.5°	1251.4	1242.7	1234.0	1225.3	1216.5	1205.2	1191.5	1177.6	1163.7	1149.9	1139.5
40°	1204.1	1195.2	1186.2	1177.2	1168.4	1156.7	1142.4	1128.1	1113.7	1099.4	1088.1
42.5°	1154.8	1145.6	1136.3	1127.1	1118.0	1106.0	1091.2	1076.4	1061.6	1046.8	1036.0
45°	1079.3	1070.7	1062.0	1053.3	1044.7	1032.2	1015.7	999.4	982.9	966.6	954.6
47.5°	1001.2	992.0	982.9	973.8	964.7	951.8	935.3	918.8	902.2	885.7	873.4
50°	951.7	941.9	932.0	922.2	912.4	899.0	881.9	865.0	847.9	831.0	818.4
52.5°	898.0	887.9	877.9	867.8	857.7	844.6	828.6	812.6	796.5	780.5	767.0
55°	818.9	809.3	799.8	790.2	780.7	767.6	750.9	734.2	717.5	700.8	687.3
57.5°	738.8	728.7	718.4	708.3	698.0	684.9	668.8	652.6	636.5	620.4	607.3
60°	687.3	676.8	666.4	656.0	645.6	632.2	616.1	600.0	583.9	567.8	554.7
62.5°	632.6	622.6	612.6	602.6	592.7	579.5	563.2	546.8	530.5	514.1	502.0
65°	554.4	544.2	534.2	524.0	513.8	500.8	485.1	469.2	453.4	437.6	425.7
67.5°	476.8	466.7	456.5	446.4	436.3	423.6	408.5	393.3	378.2	363.0	352.1
70°	424.2	414.1	403.9	393.7	383.7	371.1	356.2	341.3	326.3	311.4	302.2
72.5°	372.6	362.7	352.8	342.9	333.0	321.1	307.1	293.2	279.2	265.3	256.8
75°	295.3	286.4	277.4	268.5	259.5	248.8	236.3	223.8	211.2	198.6	192.1
77.5°	218.5	211.4	204.2	197.1	189.9	181.3	171.3	161.3	151.3	141.2	136.6
80°	174.5	167.4	160.2	153.0	145.9	138.1	129.8	121.4	113.0	104.7	102.0
82.5°	131.6	125.1	118.6	112.2	105.8	99.7	93.9	88.3	82.5	76.8	75.5
85°	73.9	68.4	63.1	57.7	52.3	48.9	47.4	46.0	44.4	43.0	42.6
87.5°	24.9	23.5	22.1	20.8	19.4	18.8	18.8	18.8	18.9	18.9	19.0
90°	0.9	2.4	3.9	5.4	7.0	8.4	9.7	11.1	12.4	13.8	14.7
92.5°	20.8	21.9	22.9	24.0	25.1	26.4	28.1	29.7	31.3	33.0	34.3
95°	55.9	56.2	56.7	57.0	57.4	58.5	60.4	62.3	64.3	66.2	67.5
97.5°	92.8	93.0	93.2	93.3	93.4	94.9	97.5	100.1	102.7	105.4	106.7
100°	120.4	120.4	120.4	120.4	120.4	121.6	124.1	126.6	129.1	131.5	133.2
102.5°	149.9	150.7	151.4	152.2	153.0	153.9	155.2	156.5	157.7	159.0	160.9
105°	196.0	196.9	197.9	198.9	199.8	200.9	202.0	203.1	204.3	205.4	206.6
107.5°	246.8	247.8	248.7	249.8	250.7	251.6	252.4	253.4	254.3	255.1	255.7
110°	282.0	282.9	283.9	284.8	285.8	286.5	287.1	287.7	288.3	288.8	289.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	317.7	318.2	318.7	319.2	319.7	320.3	321.1	321.8	322.4	323.2	323.5
115°	370.5	371.3	372.0	372.8	373.5	374.1	374.4	374.9	375.2	375.7	375.5
117.5°	423.4	423.8	424.1	424.5	424.8	425.2	425.5	425.9	426.2	426.5	426.7
120°	456.4	457.4	458.3	459.3	460.3	460.8	461.0	461.2	461.4	461.6	461.6
122.5°	492.2	492.6	492.9	493.3	493.6	494.0	494.5	495.0	495.5	495.9	495.8
125°	540.7	541.8	542.9	544.2	545.3	546.0	546.1	546.3	546.5	546.7	546.3
127.5°	592.3	592.9	593.6	594.2	594.9	595.3	595.6	595.7	596.0	596.2	596.0
130°	623.2	624.1	625.1	626.0	627.0	627.7	628.1	628.4	628.8	629.2	629.0
132.5°	654.1	655.7	657.3	658.8	660.4	661.2	661.1	661.0	660.9	660.8	660.6
135°	703.2	704.3	705.4	706.5	707.7	708.4	708.6	708.8	708.9	709.1	709.1
137.5°	749.2	750.3	751.4	752.5	753.6	754.4	754.8	755.3	755.7	756.0	756.3
140°	778.8	779.7	780.7	781.6	782.6	783.3	783.9	784.5	785.1	785.7	786.0
142.5°	808.3	809.2	809.9	810.7	811.6	812.4	813.0	813.8	814.5	815.2	815.5
145°	851.9	852.6	853.3	854.1	854.9	855.6	856.2	856.7	857.3	857.9	857.9
147.5°	892.1	892.5	892.9	893.4	893.7	894.2	894.7	895.1	895.5	896.0	896.5
150°	918.9	918.7	918.5	918.3	918.2	918.4	919.2	920.0	920.7	921.4	921.4
152.5°	940.9	941.2	941.4	941.7	941.9	942.3	942.5	942.9	943.1	943.5	943.9
155°	974.7	974.7	974.7	974.7	974.7	974.8	975.1	975.3	975.4	975.6	976.4
157.5°	1005.0	1004.6	1004.2	1003.8	1003.3	1003.2	1003.4	1003.6	1003.8	1004.0	1004.8
160°	1022.9	1022.4	1021.7	1021.1	1020.6	1020.5	1020.6	1020.8	1021.0	1021.1	1021.9
162.5°	1038.7	1038.3	1037.8	1037.4	1037.1	1036.8	1036.9	1036.9	1037.0	1037.0	1037.9
165°	1059.9	1059.5	1059.1	1058.7	1058.3	1058.3	1058.4	1058.6	1058.8	1059.0	1059.8
167.5°	1077.7	1076.9	1076.2	1075.5	1074.7	1074.3	1074.3	1074.3	1074.3	1074.3	1075.5
170°	1087.4	1086.6	1085.8	1085.1	1084.3	1083.9	1083.9	1083.9	1083.9	1083.9	1085.1
172.5°	1094.2	1093.5	1092.7	1091.9	1091.2	1090.8	1090.8	1090.8	1090.8	1090.8	1091.9
175°	1102.0	1101.2	1100.4	1099.7	1098.9	1098.5	1098.5	1098.5	1098.5	1098.5	1099.7
177.5°	1106.0	1105.4	1104.7	1104.1	1103.5	1103.1	1102.9	1102.8	1102.7	1102.5	1103.5
180°	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4
2.5°	1771.3	1773.7	1776.2	1777.2	1777.0	1776.8	1776.5	1776.2
5°	1760.5	1763.5	1766.4	1767.6	1767.0	1766.4	1765.8	1765.2
7.5°	1738.5	1740.7	1742.8	1743.4	1742.8	1742.1	1741.5	1740.9
10°	1720.0	1721.0	1721.8	1721.8	1721.0	1720.0	1719.2	1718.3
12.5°	1693.8	1694.4	1695.1	1694.8	1693.4	1692.0	1690.7	1689.3
15°	1650.5	1650.3	1649.9	1648.5	1645.8	1643.1	1640.4	1637.7
17.5°	1596.6	1595.1	1593.6	1591.8	1589.6	1587.3	1585.2	1582.9
20°	1556.9	1555.4	1553.9	1551.8	1549.1	1546.4	1543.8	1541.1
22.5°	1517.5	1514.6	1511.7	1509.1	1506.9	1504.7	1502.4	1500.3
25°	1452.8	1448.9	1445.0	1441.4	1438.1	1434.9	1431.6	1428.3
27.5°	1382.9	1377.4	1372.0	1367.7	1364.5	1361.3	1358.1	1355.0
30°	1332.7	1325.9	1319.0	1314.2	1311.6	1308.8	1306.1	1303.5
32.5°	1284.0	1276.4	1268.9	1263.3	1260.0	1256.5	1253.2	1249.7
35°	1208.3	1199.6	1191.0	1184.6	1180.4	1176.2	1172.1	1167.9
37.5°	1129.1	1118.8	1108.4	1101.1	1097.1	1093.0	1089.0	1084.9
40°	1076.8	1065.4	1054.1	1046.6	1043.0	1039.5	1035.9	1032.3
42.5°	1025.1	1014.3	1003.4	995.3	990.1	984.8	979.6	974.3
45°	942.6	930.7	918.8	910.6	906.1	901.6	897.2	892.7
47.5°	861.2	848.9	836.5	827.9	822.9	818.0	813.0	808.1
50°	805.9	793.3	780.8	772.3	767.8	763.4	758.9	754.4
52.5°	753.5	740.0	726.5	717.6	713.1	708.6	704.1	699.6
55°	673.9	660.5	647.0	637.9	633.2	628.4	623.6	618.9
57.5°	594.2	581.1	567.9	559.3	555.0	550.8	546.6	542.3
60°	541.6	528.5	515.3	506.5	502.0	497.6	493.1	488.6
62.5°	489.8	477.6	465.5	457.1	452.6	448.2	443.7	439.2
65°	413.8	401.8	389.9	381.7	377.2	372.7	368.2	363.8
67.5°	341.1	330.2	319.3	312.0	308.5	304.9	301.4	297.7
70°	292.9	283.7	274.5	268.0	264.4	260.9	257.3	253.7
72.5°	248.2	239.7	231.1	225.7	223.3	220.9	218.5	216.1
75°	185.5	179.0	172.5	168.1	166.0	163.9	161.9	159.7
77.5°	132.0	127.4	122.9	119.8	118.2	116.7	115.1	113.6
80°	99.4	96.7	93.9	92.3	91.7	91.1	90.6	90.0
82.5°	74.3	73.0	71.8	70.9	70.6	70.3	69.9	69.6
85°	42.4	42.1	41.8	41.5	41.2	40.9	40.6	40.3
87.5°	19.2	19.5	19.6	19.6	19.5	19.4	19.3	19.2
90°	15.7	16.6	17.6	18.3	18.9	19.5	20.1	20.7
92.5°	35.6	36.8	38.1	38.9	39.3	39.7	40.1	40.6
95°	68.9	70.2	71.5	72.4	72.8	73.2	73.5	74.0
97.5°	107.9	109.2	110.5	111.2	111.4	111.7	111.8	112.1
100°	134.9	136.6	138.4	139.5	139.8	140.2	140.6	140.9
102.5°	162.7	164.6	166.5	167.7	168.2	168.8	169.4	169.9
105°	207.8	208.9	210.0	210.9	211.5	212.1	212.6	213.2
107.5°	256.2	256.8	257.4	257.7	257.6	257.6	257.6	257.5
110°	290.0	290.5	291.1	291.3	291.1	290.9	290.8	290.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	323.7	324.0	324.3	324.3	323.9	323.6	323.2	322.9
115°	375.2	375.1	374.9	374.7	374.4	374.3	374.1	373.9
117.5°	426.8	427.0	427.1	426.8	426.0	425.3	424.6	423.8
120°	461.6	461.6	461.6	461.2	460.5	459.7	458.9	458.1
122.5°	495.7	495.5	495.3	495.0	494.4	493.8	493.2	492.6
125°	546.0	545.5	545.2	544.8	544.7	544.5	544.3	544.2
127.5°	595.8	595.6	595.5	595.1	594.8	594.3	594.0	593.7
130°	628.8	628.6	628.4	628.2	627.8	627.4	627.0	626.6
132.5°	660.5	660.3	660.0	659.7	659.2	658.7	658.1	657.5
135°	709.1	709.1	709.1	708.8	708.0	707.2	706.5	705.7
137.5°	756.6	756.7	757.0	756.6	755.7	754.8	753.8	752.9
140°	786.4	786.8	787.2	786.9	785.9	785.0	784.0	783.1
142.5°	815.7	815.9	816.1	815.8	814.9	813.9	813.0	811.9
145°	857.9	857.9	857.9	857.6	857.0	856.4	855.8	855.3
147.5°	896.9	897.4	897.9	897.4	896.1	894.8	893.5	892.3
150°	921.4	921.4	921.4	921.3	920.9	920.5	920.2	919.7
152.5°	944.4	944.9	945.3	945.2	944.5	943.8	943.1	942.5
155°	977.1	977.9	978.7	978.6	977.7	976.6	975.7	974.7
157.5°	1005.5	1006.3	1007.0	1006.8	1005.6	1004.3	1003.0	1001.8
160°	1022.7	1023.5	1024.2	1024.2	1023.2	1022.3	1021.3	1020.3
162.5°	1038.8	1039.7	1040.7	1040.6	1039.5	1038.4	1037.2	1036.1
165°	1060.5	1061.3	1062.0	1061.9	1060.8	1059.5	1058.4	1057.3
167.5°	1076.6	1077.7	1078.9	1078.8	1077.7	1076.5	1075.3	1074.1
170°	1086.2	1087.4	1088.5	1088.4	1087.1	1085.7	1084.4	1083.1
172.5°	1093.1	1094.2	1095.4	1095.4	1094.2	1093.0	1091.8	1090.6
175°	1100.9	1102.0	1103.1	1103.0	1101.7	1100.4	1099.0	1097.7
177.5°	1104.3	1105.3	1106.1	1106.1	1105.0	1104.0	1102.9	1101.8
180°	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6

(END OF REPORT)