

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: P333329-930

Luminaire Tested: **S125DIP-S1270D1035U930-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333329-930
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-S1270D1035U930-4F0-1E-UDD-F1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

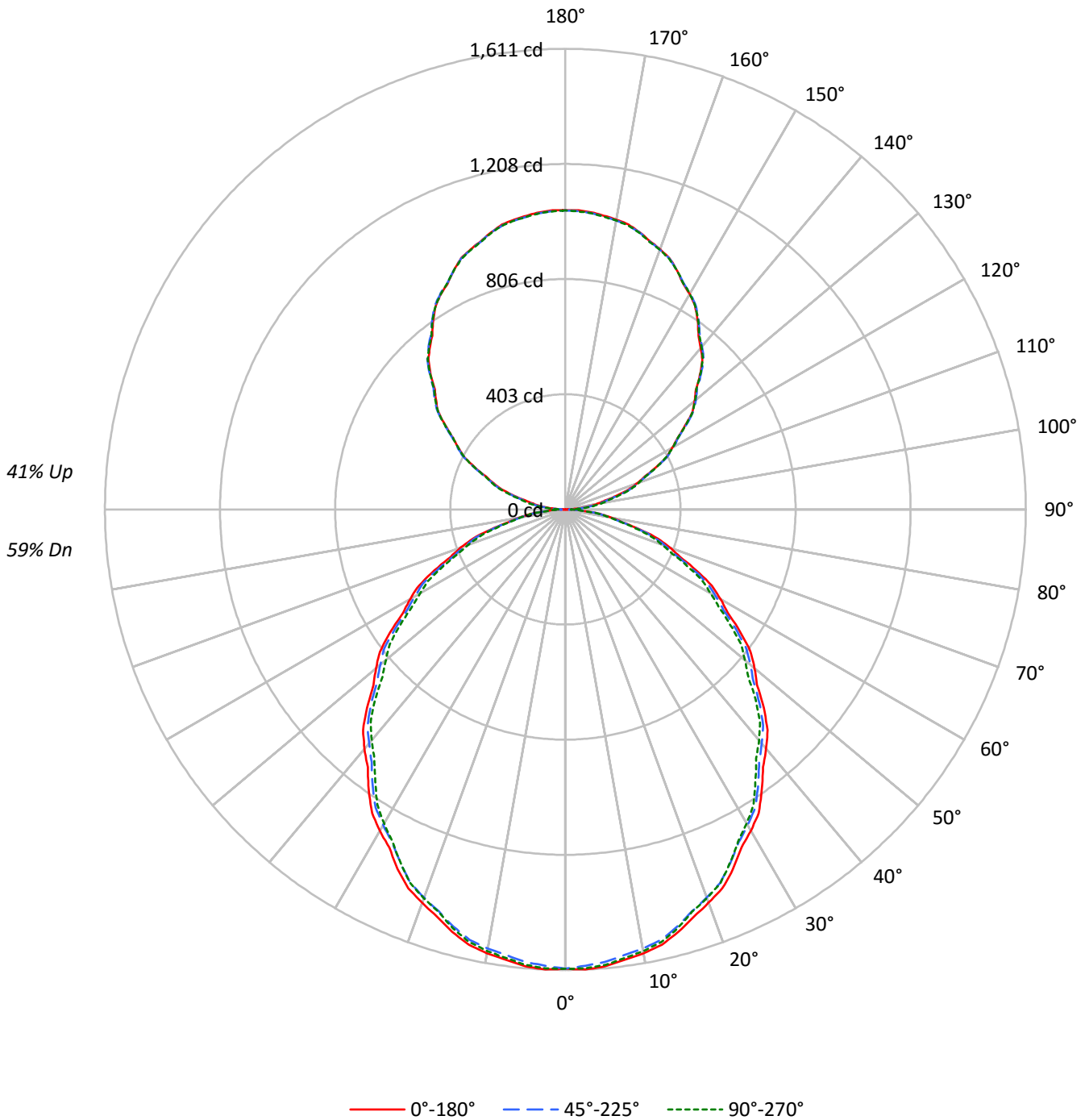
Lumens per Lamp: N/A
Luminaire Lumens: 7101.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59				
1	100	95	91	88	93	89	86	82	77	75	72	67	65	63	57	55	54	49				
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	48	46	41				
3	83	73	66	60	77	68	62	56	60	55	50	52	48	44	44	41	39	35				
4	76	65	57	50	70	61	54	48	53	47	43	46	42	38	39	36	33	30				
5	70	58	49	43	65	54	47	41	48	42	37	41	37	33	36	32	29	26				
6	64	52	44	38	60	49	41	36	43	37	32	37	33	29	32	29	26	23				
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23	20				
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	20	18				
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16				
10	48	36	28	23	45	34	27	23	30	24	21	27	22	19	23	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10377	10377	10377
5°	10400	10301	10367
10°	10337	10228	10287
15°	10224	10105	10148
20°	10065	9933	9950
25°	9892	9728	9719
30°	9679	9508	9461
35°	9451	9270	9140
40°	9217	9012	8884
45°	8963	8777	8603
50°	8685	8493	8238
55°	8417	8173	7944
60°	8094	7848	7569
65°	7713	7459	7207
70°	7345	7009	6770
75°	6692	6470	6248
80°	5954	5861	5720
85°	5187	5276	4987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	2.1
10°-20°	427.9	6.0
20°-30°	631.9	8.9
30°-40°	737.3	10.4
40°-50°	740.5	10.4
50°-60°	650.0	9.2
60°-70°	484.3	6.8
70°-80°	276.9	3.9
80°-90°	82.8	1.2
90°-100°	70.1	1.0
100°-110°	206.9	2.9
110°-120°	350.4	4.9
120°-130°	461.1	6.5
130°-140°	516.7	7.3
140°-150°	506.4	7.1
150°-160°	425.3	6.0
160°-170°	282.7	4.0
170°-180°	98.9	1.4
0°-30°	1211.3	17.1
0°-40°	1948.6	27.4
0°-60°	3339.1	47.0
0°-90°	4183.3	58.9
90°-120°	627.3	8.8
90°-150°	2111.6	29.7
90°-180°	2919.0	41.1
0°-180°	7101.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1604	1601	1589	1600	1599	152
15°	1529	1525	1511	1517	1518	431
25°	1388	1381	1365	1367	1364	638
35°	1199	1193	1176	1169	1159	749
45°	981	976	961	946	942	756
55°	748	743	726	715	706	667
65°	505	501	488	477	472	501
75°	268	266	259	255	250	286
85°	70	71	71	70	67	78
90°	1	7	13	17	20	7
95°	53	55	63	68	70	56
105°	186	190	194	199	202	198
115°	351	354	356	355	354	347
125°	512	517	518	516	515	458
135°	666	670	672	671	668	513
145°	807	810	812	812	810	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°	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7
2.5°	1610.8	1610.1	1609.5	1608.7	1608.1	1606.6	1604.3	1602.1	1599.9	1597.6	1599.9
5°	1604.2	1603.6	1603.0	1602.5	1601.9	1600.3	1597.4	1594.6	1591.8	1588.9	1591.5
7.5°	1589.4	1588.9	1588.3	1587.7	1587.1	1585.3	1582.3	1579.2	1576.1	1573.0	1575.4
10°	1576.2	1575.6	1575.1	1574.5	1573.9	1572.1	1569.0	1565.9	1562.8	1559.7	1562.0
12.5°	1559.9	1558.9	1558.0	1556.9	1555.9	1554.0	1551.0	1548.2	1545.3	1542.4	1544.3
15°	1529.2	1528.4	1527.5	1526.6	1525.8	1523.8	1520.7	1517.6	1514.5	1511.4	1512.8
17.5°	1493.9	1492.6	1491.3	1490.1	1488.9	1486.6	1483.4	1480.2	1477.0	1473.7	1475.5
20°	1464.4	1463.8	1463.2	1462.6	1462.1	1460.0	1456.3	1452.6	1448.9	1445.3	1447.2
22.5°	1434.8	1433.9	1432.8	1431.8	1430.8	1428.6	1425.1	1421.7	1418.2	1414.8	1416.1
25°	1388.1	1386.7	1385.3	1383.9	1382.4	1379.9	1376.2	1372.6	1368.9	1365.2	1365.8
27.5°	1333.4	1332.6	1331.7	1330.9	1330.1	1327.7	1324.0	1320.1	1316.4	1312.6	1312.7
30°	1297.9	1297.0	1296.2	1295.3	1294.5	1291.9	1287.7	1283.4	1279.2	1275.0	1274.4
32.5°	1259.2	1257.9	1256.6	1255.3	1254.0	1251.5	1247.7	1243.9	1240.1	1236.3	1235.3
35°	1198.7	1197.6	1196.5	1195.3	1194.2	1191.6	1187.6	1183.7	1179.7	1175.8	1174.4
37.5°	1135.9	1134.5	1133.1	1131.6	1130.2	1127.6	1124.0	1120.2	1116.5	1112.8	1110.7
40°	1093.2	1091.8	1090.4	1088.9	1087.5	1084.8	1080.9	1076.9	1073.0	1069.0	1066.5
42.5°	1047.4	1046.3	1045.1	1043.8	1042.7	1040.1	1036.2	1032.2	1028.3	1024.3	1022.0
45°	981.3	980.2	979.1	978.0	976.8	974.5	971.2	967.8	964.4	961.0	957.6
47.5°	910.1	910.2	910.3	910.3	910.4	908.3	904.3	900.3	896.2	892.1	888.7
50°	864.4	863.6	862.7	861.9	861.0	858.8	855.5	852.1	848.7	845.3	841.6
52.5°	817.6	817.0	816.4	815.7	815.1	813.0	809.3	805.8	802.2	798.5	795.3
55°	747.5	746.6	745.8	744.9	744.0	741.7	737.7	733.8	729.8	725.9	723.3
57.5°	673.4	673.0	672.5	672.1	671.6	669.8	666.4	663.1	659.7	656.4	653.1
60°	626.6	625.6	624.4	623.3	622.2	620.0	616.9	613.8	610.7	607.6	604.8
62.5°	577.9	577.0	576.1	575.1	574.2	572.5	569.8	567.1	564.5	561.8	558.8
65°	504.7	504.1	503.5	503.0	502.4	500.5	497.4	494.3	491.2	488.1	485.6
67.5°	433.7	432.5	431.4	430.2	429.0	427.2	424.9	422.6	420.3	417.9	415.8
70°	389.0	387.6	386.1	384.7	383.4	381.3	378.8	376.3	373.7	371.2	369.5
72.5°	340.1	339.2	338.3	337.3	336.3	335.0	333.4	331.7	330.1	328.5	326.5
75°	268.2	267.7	267.1	266.5	266.0	265.0	263.6	262.1	260.7	259.3	258.4
77.5°	201.9	201.6	201.4	201.2	201.0	200.5	199.7	198.9	198.0	197.3	196.8
80°	160.1	160.1	160.1	160.1	160.1	159.9	159.3	158.7	158.2	157.6	157.4
82.5°	123.5	123.1	122.6	122.2	121.7	121.5	121.3	121.2	121.2	121.0	120.5
85°	70.0	70.2	70.4	70.8	71.0	71.2	71.2	71.2	71.2	71.2	70.9
87.5°	27.6	27.9	28.2	28.5	28.8	28.9	28.9	29.0	29.0	29.0	29.2
90°	0.8	2.3	3.7	5.1	6.6	8.0	9.2	10.5	11.7	13.0	13.9
92.5°	19.7	20.7	21.7	22.7	23.7	25.0	26.6	28.1	29.7	31.2	32.4
95°	52.9	53.2	53.6	54.0	54.4	55.4	57.2	59.0	60.9	62.7	63.9
97.5°	87.9	88.1	88.2	88.4	88.5	89.8	92.3	94.8	97.3	99.8	101.0
100°	114.0	114.0	114.0	114.0	114.0	115.1	117.5	119.8	122.2	124.5	126.1
102.5°	141.9	142.7	143.4	144.1	144.9	145.8	147.0	148.2	149.4	150.6	152.4
105°	185.6	186.5	187.4	188.3	189.2	190.2	191.3	192.3	193.5	194.5	195.6
107.5°	233.7	234.6	235.5	236.5	237.4	238.2	239.0	239.9	240.8	241.6	242.1
110°	267.0	267.9	268.8	269.7	270.6	271.3	271.8	272.4	273.0	273.5	274.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	300.8	301.3	301.7	302.2	302.7	303.3	304.0	304.7	305.3	306.1	306.3
115°	350.8	351.6	352.3	353.0	353.7	354.2	354.6	355.0	355.3	355.7	355.6
117.5°	401.0	401.3	401.6	401.9	402.3	402.6	402.9	403.2	403.6	403.9	404.1
120°	432.2	433.1	434.0	435.0	435.9	436.3	436.5	436.8	436.9	437.1	437.1
122.5°	466.1	466.4	466.8	467.1	467.4	467.7	468.2	468.7	469.2	469.6	469.5
125°	512.0	513.1	514.1	515.3	516.3	517.0	517.1	517.3	517.5	517.7	517.3
127.5°	560.8	561.4	562.1	562.6	563.3	563.7	563.9	564.1	564.4	564.6	564.4
130°	590.1	591.0	591.9	592.8	593.7	594.4	594.8	595.1	595.4	595.8	595.7
132.5°	619.4	620.9	622.4	623.9	625.3	626.1	626.0	625.9	625.8	625.7	625.6
135°	665.9	666.9	668.0	669.0	670.2	670.8	671.0	671.2	671.3	671.5	671.5
137.5°	709.5	710.5	711.5	712.6	713.6	714.4	714.8	715.2	715.6	715.9	716.2
140°	737.4	738.3	739.2	740.1	741.0	741.8	742.3	742.9	743.4	744.0	744.3
142.5°	765.4	766.2	767.0	767.7	768.5	769.2	769.9	770.6	771.3	771.9	772.2
145°	806.7	807.4	808.0	808.8	809.5	810.2	810.7	811.2	811.8	812.4	812.4
147.5°	844.7	845.1	845.5	846.0	846.3	846.8	847.2	847.6	848.0	848.5	848.9
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°	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7	1606.7
2.5°	1602.1	1604.3	1606.6	1607.6	1607.4	1607.2	1607.0	1606.7
5°	1594.0	1596.6	1599.1	1600.3	1599.9	1599.7	1599.4	1599.1
7.5°	1577.8	1580.4	1582.8	1584.0	1583.7	1583.4	1583.1	1582.8
10°	1564.2	1566.5	1568.7	1569.7	1569.5	1569.1	1568.9	1568.6
12.5°	1546.1	1547.8	1549.6	1550.5	1550.5	1550.4	1550.4	1550.3
15°	1514.3	1515.6	1517.0	1517.8	1517.8	1517.8	1517.8	1517.8
17.5°	1477.2	1479.0	1480.7	1480.9	1479.5	1478.1	1476.7	1475.3
20°	1449.3	1451.2	1453.2	1453.5	1452.0	1450.7	1449.3	1447.8
22.5°	1417.4	1418.7	1420.0	1420.2	1419.2	1418.2	1417.2	1416.3
25°	1366.4	1366.9	1367.5	1367.3	1366.5	1365.6	1364.8	1363.9
27.5°	1312.8	1313.0	1313.0	1312.6	1311.8	1311.0	1310.1	1309.3
30°	1273.8	1273.3	1272.7	1272.0	1271.1	1270.3	1269.4	1268.6
32.5°	1234.3	1233.3	1232.2	1230.9	1229.5	1227.9	1226.4	1224.9
35°	1173.0	1171.6	1170.2	1168.3	1166.0	1163.8	1161.6	1159.3
37.5°	1108.6	1106.5	1104.4	1102.7	1101.4	1100.1	1098.8	1097.5
40°	1064.0	1061.4	1058.8	1057.2	1056.3	1055.5	1054.6	1053.8
42.5°	1019.7	1017.3	1015.0	1013.3	1011.9	1010.6	1009.3	1008.0
45°	954.2	950.8	947.5	945.3	944.4	943.6	942.7	941.9
47.5°	885.2	881.7	878.3	875.6	873.6	871.6	869.7	867.7
50°	838.0	834.3	830.6	827.8	825.8	823.9	821.9	819.9
52.5°	792.1	788.9	785.6	782.9	780.7	778.5	776.3	774.1
55°	720.7	718.2	715.7	713.4	711.4	709.5	707.4	705.5
57.5°	649.9	646.6	643.4	641.2	640.1	639.0	637.9	636.8
60°	601.9	599.2	596.3	593.9	591.9	590.0	588.0	586.0
62.5°	555.7	552.7	549.7	547.4	545.8	544.3	542.7	541.3
65°	483.1	480.5	477.9	476.1	475.0	473.9	472.7	471.6
67.5°	413.7	411.5	409.4	408.0	407.2	406.6	405.9	405.2
70°	367.8	366.1	364.4	363.0	361.8	360.7	359.6	358.5
72.5°	324.7	322.7	320.8	319.3	318.1	317.0	315.8	314.7
75°	257.6	256.7	255.9	254.9	253.8	252.7	251.5	250.4
77.5°	196.2	195.8	195.3	194.6	193.8	193.0	192.2	191.4
80°	157.0	156.8	156.5	156.0	155.5	154.9	154.3	153.8
82.5°	120.0	119.5	119.0	118.7	118.5	118.5	118.3	118.2
85°	70.6	70.4	70.0	69.6	69.1	68.5	67.9	67.3
87.5°	29.4	29.6	29.8	29.7	29.4	29.0	28.6	28.3
90°	14.8	15.7	16.6	17.4	17.9	18.4	19.0	19.6
92.5°	33.7	34.8	36.0	36.9	37.3	37.6	38.0	38.4
95°	65.2	66.4	67.8	68.6	68.9	69.3	69.6	70.0
97.5°	102.2	103.4	104.6	105.3	105.5	105.7	105.9	106.2
100°	127.8	129.4	131.0	132.1	132.4	132.7	133.1	133.5
102.5°	154.1	155.9	157.7	158.8	159.3	159.8	160.4	160.9
105°	196.7	197.8	198.9	199.7	200.2	200.8	201.3	201.9
107.5°	242.6	243.2	243.8	244.0	243.9	243.9	243.9	243.9
110°	274.6	275.1	275.7	275.8	275.7	275.5	275.3	275.1



TEST NUMBER: P333329-930

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	306.6	306.8	307.0	307.0	306.7	306.4	306.1	305.7
115°	355.3	355.1	355.0	354.8	354.6	354.4	354.2	354.1
117.5°	404.1	404.3	404.5	404.1	403.4	402.8	402.0	401.3
120°	437.1	437.1	437.1	436.8	436.0	435.3	434.6	433.8
122.5°	469.4	469.2	469.0	468.7	468.1	467.6	467.0	466.4
125°	517.0	516.6	516.2	515.9	515.8	515.6	515.4	515.3
127.5°	564.2	564.0	563.9	563.5	563.2	562.8	562.5	562.1
130°	595.4	595.3	595.1	594.8	594.4	594.1	593.7	593.4
132.5°	625.4	625.3	625.0	624.7	624.2	623.7	623.2	622.6
135°	671.5	671.5	671.5	671.2	670.4	669.7	669.0	668.2
137.5°	716.4	716.6	716.8	716.5	715.6	714.7	713.8	712.9
140°	744.7	745.0	745.4	745.1	744.2	743.3	742.4	741.5
142.5°	772.4	772.6	772.8	772.5	771.6	770.7	769.8	768.8
145°	812.4	812.4	812.4	812.0	811.5	811.0	810.4	809.9
147.5°	849.3	849.8	850.2	849.8	848.6	847.3	846.1	844.9
150°	872.5	872.5	872.5	872.4	872.0	871.6	871.3	870.9
152.5°	894.3	894.7	895.1	895.0	894.4	893.7	893.1	892.4
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)