

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: P333431-930

Luminaire Tested: **S125DIW-S1090D470U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333431-930
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: S125DIW-S1090D470U930-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4984.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

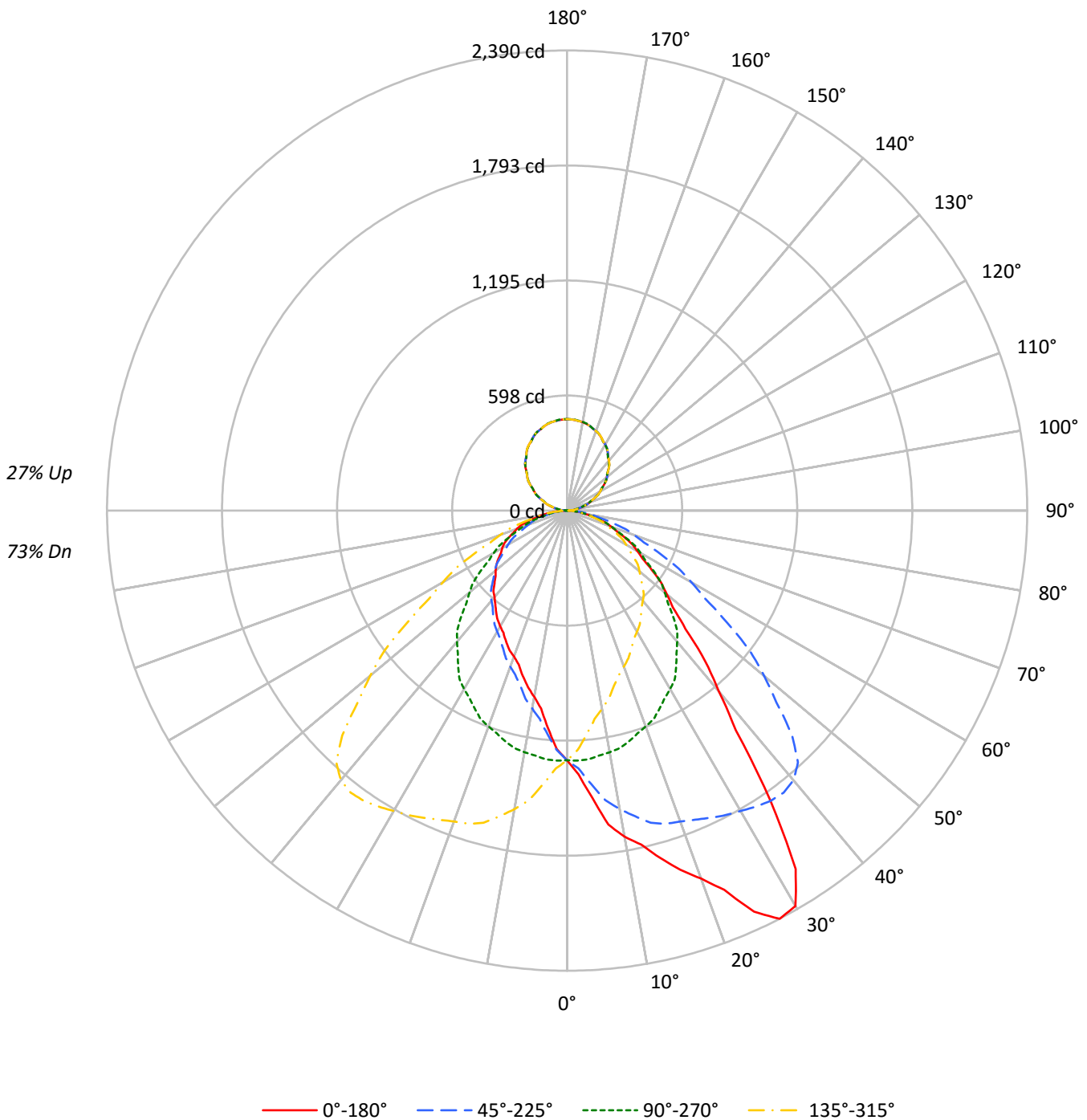
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	96	96	96	87	87	87	78	78	78	73
1	103	99	95	92	98	94	91	88	85	83	80	77	75	73	69	68	66	63
2	94	87	81	75	89	83	77	72	75	71	67	68	64	61	61	59	56	53
3	86	77	69	63	82	73	66	61	66	61	57	60	56	52	55	51	48	45
4	79	68	60	54	75	65	58	52	59	53	48	54	49	45	49	45	42	39
5	73	61	53	46	69	58	51	45	53	47	42	49	43	39	44	40	37	34
6	67	55	46	40	64	52	45	39	48	42	37	44	39	35	40	36	32	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	26
8	58	45	37	32	55	43	36	31	40	34	29	37	31	27	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8373	8373	8373	8373
5°	9697	8401	7356	8401
10°	11281	8358	6445	8358
15°	12488	8297	5945	8297
20°	13978	8199	5544	8199
25°	16376	8089	5349	8089
30°	17687	7982	5179	7982
35°	14542	7779	5067	7779
40°	10336	7497	4945	7497
45°	7941	7117	4875	7117
50°	6779	6646	4866	6646
55°	6035	6184	4908	6184
60°	5444	5679	5032	5679
65°	5029	5171	5164	5171
70°	4572	4645	5238	4645
75°	4037	4092	5190	4092
80°	3396	3336	4749	3336
85°	2690	2401	3831	2401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	2.5
10°-20°	371.6	7.5
20°-30°	603.4	12.1
30°-40°	736.0	14.8
40°-50°	669.6	13.4
50°-60°	533.4	10.7
60°-70°	371.5	7.5
70°-80°	198.1	4.0
80°-90°	51.0	1.0
90°-100°	31.8	0.6
100°-110°	93.9	1.9
110°-120°	159.1	3.2
120°-130°	209.4	4.2
130°-140°	234.6	4.7
140°-150°	229.9	4.6
150°-160°	193.1	3.9
160°-170°	128.4	2.6
170°-180°	44.9	0.9
0°-30°	1099.8	22.1
0°-40°	1835.9	36.8
0°-60°	3038.8	61.0
0°-90°	3659.5	73.4
90°-120°	284.8	5.7
90°-150°	958.7	19.2
90°-180°	1325.0	26.6
0°-180°	4984.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1296	1296	1296	1296	1296	
5°	1496	1296	1135	1296	1496	151
15°	1868	1241	889	1241	1868	535
25°	2298	1135	751	1135	2298	1050
35°	1844	987	643	987	1844	1129
45°	869	779	534	779	869	696
55°	536	549	436	549	536	483
65°	329	338	338	338	329	327
75°	162	164	208	164	162	174
85°	36	32	52	32	36	42
90°	9	0	9	0	9	7
95°	32	24	32	24	32	32
105°	92	84	92	84	92	97
115°	161	159	161	159	161	159
125°	234	232	234	232	234	209
135°	303	302	303	302	303	234
145°	368	366	368	366	368	230
155°	419	419	419	419	419	193
165°	454	456	454	456	454	128
175°	472	474	472	474	472	45
180°	475	475	475	475	475	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1371.3	1369.5	1367.8	1364.2	1366.9	1359.4	1355.9	1349.7	1342.2	1339.6	1336.5
5°	1495.7	1498.4	1501.2	1489.6	1490.7	1483.0	1465.4	1451.1	1439.6	1424.7	1414.2
7.5°	1645.4	1638.8	1638.3	1630.8	1618.0	1607.6	1589.1	1565.5	1542.8	1516.8	1495.3
10°	1720.2	1720.8	1715.8	1707.0	1693.2	1683.3	1659.1	1636.0	1607.9	1574.9	1551.3
12.5°	1776.5	1778.8	1772.6	1760.7	1754.0	1731.8	1712.9	1685.3	1652.0	1625.5	1589.6
15°	1867.7	1861.7	1857.3	1842.3	1830.8	1807.7	1777.4	1748.8	1712.5	1678.9	1645.4
17.5°	1955.5	1960.3	1952.1	1938.5	1902.7	1875.7	1835.1	1795.9	1750.7	1705.7	1665.6
20°	2033.8	2038.2	2025.6	2002.0	1959.0	1932.1	1878.7	1828.1	1775.8	1718.0	1674.0
22.5°	2131.6	2128.1	2111.0	2075.0	2037.8	1987.9	1930.2	1868.6	1803.0	1737.8	1679.3
25°	2298.0	2274.8	2264.4	2219.9	2170.9	2097.7	2018.4	1928.2	1846.7	1760.4	1685.5
27.5°	2390.2	2383.0	2371.3	2340.2	2288.8	2210.5	2117.1	2007.1	1892.2	1783.1	1685.2
30°	2371.7	2372.8	2373.9	2364.0	2331.0	2272.2	2179.1	2060.8	1924.4	1801.6	1688.2
32.5°	2208.0	2228.0	2247.1	2269.8	2279.1	2267.8	2209.5	2102.7	1962.2	1822.8	1686.5
35°	1844.5	1850.6	1912.8	1974.4	2058.1	2123.0	2166.5	2119.1	2000.8	1840.7	1684.4
37.5°	1438.3	1467.9	1511.0	1580.6	1701.4	1809.5	1948.5	2012.4	1974.2	1846.6	1680.6
40°	1226.0	1253.5	1281.7	1352.6	1454.4	1585.3	1743.3	1878.1	1909.5	1828.1	1667.4
42.5°	1062.3	1084.1	1115.2	1168.6	1253.7	1369.7	1520.5	1696.7	1805.2	1774.3	1639.6
45°	869.4	883.2	907.4	949.8	1011.5	1102.2	1235.4	1428.0	1595.9	1651.4	1573.9
47.5°	744.2	744.1	763.0	792.2	836.7	913.8	1012.3	1163.2	1342.5	1475.1	1468.9
50°	674.7	671.9	686.7	712.1	747.3	798.5	892.6	1013.1	1185.3	1335.5	1377.4
52.5°	614.8	615.1	624.3	642.9	672.5	716.2	786.4	895.1	1042.3	1196.5	1275.2
55°	536.0	533.8	544.2	556.9	578.4	607.0	657.6	740.7	860.1	1011.9	1114.4
57.5°	463.7	469.9	474.0	482.8	500.7	519.8	562.5	623.5	718.2	848.6	956.8
60°	421.5	427.5	430.9	439.7	454.0	470.5	503.5	553.0	632.8	745.1	852.4
62.5°	383.7	388.4	389.5	397.4	409.1	425.2	451.1	492.8	555.8	654.0	759.0
65°	329.1	329.1	331.3	339.5	345.0	359.3	379.1	409.4	460.1	536.5	626.2
67.5°	276.5	279.1	278.6	282.2	287.2	298.4	312.6	337.5	375.0	430.9	502.6
70°	242.1	244.3	243.8	246.5	252.0	259.2	270.8	294.4	321.4	369.2	430.9
72.5°	211.3	212.2	210.8	214.4	217.7	224.0	236.8	249.5	274.7	315.1	365.7
75°	161.8	162.9	164.0	166.2	169.5	172.8	179.4	192.1	208.6	238.8	271.3
77.5°	121.3	119.2	121.8	121.5	123.4	125.9	131.8	138.4	152.0	171.1	196.2
80°	91.3	91.9	91.9	92.5	95.2	96.9	101.8	106.7	117.2	131.5	149.1
82.5°	66.7	68.2	67.3	68.2	70.5	71.7	74.5	78.6	84.6	95.9	108.6
85°	36.3	33.6	34.7	35.8	35.8	36.3	38.5	40.2	43.5	47.9	52.8
87.5°	12.3	13.2	13.5	13.5	13.9	13.9	15.5	15.4	16.6	17.9	19.6
90°	8.9	8.6	8.4	8.2	7.9	7.6	7.2	6.8	6.4	6.0	5.3
92.5°	17.4	17.3	17.0	16.9	16.7	16.4	15.8	15.2	14.8	14.2	13.5
95°	31.8	31.6	31.5	31.3	31.1	30.7	30.2	29.6	29.0	28.5	27.6
97.5°	48.2	48.1	48.0	47.9	47.8	47.5	47.0	46.4	45.8	45.3	44.2
100°	60.6	60.4	60.3	60.1	59.9	59.5	58.8	58.0	57.3	56.5	55.4
102.5°	73.1	72.8	72.6	72.3	72.1	71.6	70.8	70.0	69.1	68.3	67.8
105°	91.6	91.4	91.2	90.9	90.7	90.3	89.8	89.3	88.8	88.3	87.8
107.5°	110.7	110.7	110.7	110.8	110.8	110.6	110.4	110.1	109.9	109.7	109.3
110°	124.9	125.0	125.1	125.1	125.2	125.1	124.9	124.7	124.4	124.2	123.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	138.8	138.9	139.1	139.3	139.4	139.4	139.3	139.2	139.1	138.9	138.6
115°	160.8	160.9	160.9	161.0	161.1	161.2	161.3	161.3	161.4	161.5	161.3
117.5°	182.1	182.5	182.9	183.2	183.5	183.6	183.5	183.5	183.4	183.4	183.2
120°	197.0	197.3	197.6	198.0	198.3	198.4	198.4	198.4	198.4	198.4	198.4
122.5°	211.7	212.0	212.3	212.5	212.8	213.0	213.0	213.1	213.1	213.2	213.0
125°	233.9	234.0	234.1	234.2	234.2	234.4	234.6	234.7	234.9	235.1	235.0
127.5°	255.2	255.4	255.5	255.7	255.8	256.0	256.1	256.2	256.2	256.3	256.2
130°	269.4	269.5	269.7	269.9	270.0	270.2	270.3	270.4	270.4	270.5	270.4
132.5°	282.7	282.9	283.2	283.4	283.6	283.7	283.8	283.9	284.0	284.1	284.1
135°	303.4	303.7	304.0	304.4	304.7	304.8	304.8	304.8	304.8	304.8	304.8
137.5°	323.6	324.0	324.5	324.9	325.3	325.5	325.3	325.2	325.1	325.1	324.8
140°	336.6	337.0	337.5	337.9	338.3	338.4	338.3	338.1	337.9	337.8	337.5
142.5°	349.0	349.4	349.8	350.3	350.7	350.8	350.7	350.7	350.6	350.5	350.2
145°	367.7	367.9	368.2	368.4	368.7	368.8	368.8	368.8	368.8	368.8	368.5
147.5°	383.6	384.1	384.7	385.2	385.8	386.0	385.8	385.6	385.4	385.2	385.0
150°	395.4	395.6	395.7	395.9	396.1	396.2	396.2	396.2	396.2	396.2	395.8
152.5°	405.1	405.4	405.8	406.0	406.3	406.3	406.2	406.0	405.8	405.6	405.4
155°	419.1	419.5	419.9	420.3	420.7	420.7	420.4	420.0	419.7	419.4	419.3
157.5°	430.6	431.2	431.7	432.3	432.8	432.9	432.6	432.3	431.9	431.6	431.5
160°	438.6	439.0	439.4	439.9	440.3	440.3	440.0	439.7	439.4	439.0	438.9
162.5°	445.4	445.9	446.4	446.9	447.4	447.4	446.9	446.6	446.2	445.8	445.8
165°	454.5	455.0	455.5	456.0	456.5	456.6	456.2	455.9	455.6	455.3	455.2
167.5°	461.8	462.3	462.8	463.3	463.8	463.8	463.3	462.8	462.4	461.9	461.9
170°	465.6	466.2	466.8	467.3	467.9	468.0	467.4	466.9	466.4	465.9	465.9
172.5°	468.9	469.4	469.9	470.3	470.9	470.9	470.4	469.9	469.4	469.0	469.0
175°	471.9	472.5	473.0	473.6	474.2	474.3	473.8	473.2	472.7	472.2	472.2
177.5°	473.7	474.1	474.6	475.1	475.5	475.6	475.2	474.7	474.3	473.9	474.0
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1333.9	1330.8	1327.3	1321.1	1313.6	1309.7	1303.5	1299.6	1291.6	1285.0	1278.0
5°	1401.6	1387.3	1374.1	1357.0	1338.3	1326.2	1311.9	1295.9	1279.4	1262.3	1243.7
7.5°	1471.7	1446.3	1418.9	1389.3	1360.3	1333.7	1308.2	1283.3	1260.0	1231.8	1207.9
10°	1518.8	1486.9	1452.8	1412.6	1373.5	1339.4	1304.7	1274.5	1243.7	1210.6	1181.5
12.5°	1565.9	1523.4	1475.2	1431.1	1384.1	1342.9	1302.1	1263.5	1224.7	1188.2	1154.1
15°	1599.1	1561.7	1517.1	1454.4	1401.6	1344.9	1290.9	1240.9	1194.1	1153.4	1110.5
17.5°	1621.1	1572.8	1524.9	1464.8	1395.5	1332.1	1271.1	1213.7	1161.0	1109.4	1068.0
20°	1625.0	1575.5	1525.4	1466.5	1395.5	1322.9	1261.8	1193.0	1136.4	1083.0	1032.3
22.5°	1623.7	1567.6	1513.0	1452.5	1383.2	1316.3	1242.4	1172.3	1110.8	1058.3	1005.5
25°	1611.3	1551.3	1483.0	1422.0	1353.7	1282.7	1207.9	1135.2	1072.5	1012.5	960.3
27.5°	1600.9	1523.1	1445.9	1374.6	1308.7	1243.7	1172.0	1097.6	1028.0	967.3	918.0
30°	1588.1	1502.8	1415.8	1341.6	1273.9	1210.6	1143.0	1070.3	997.7	938.2	885.4
32.5°	1576.7	1477.3	1385.5	1304.6	1233.0	1171.4	1109.1	1039.9	968.6	908.3	855.5
35°	1554.5	1439.6	1334.5	1243.1	1166.6	1103.3	1051.1	986.7	921.2	862.8	812.2
37.5°	1526.5	1390.0	1277.2	1181.5	1097.6	1030.9	982.3	932.9	870.0	813.8	768.0
40°	1504.5	1354.8	1235.4	1137.4	1050.5	981.1	936.0	889.2	837.0	784.7	736.3
42.5°	1476.8	1323.1	1193.1	1087.7	1001.6	934.1	886.7	847.0	800.9	752.1	707.2
45°	1425.8	1265.7	1124.8	1011.5	924.5	857.9	808.9	779.2	744.5	698.3	660.3
47.5°	1350.9	1196.6	1050.9	933.9	844.2	782.5	736.6	708.1	683.7	649.3	614.9
50°	1284.3	1145.2	997.7	881.6	791.9	729.7	687.3	661.5	640.5	614.1	585.0
52.5°	1210.0	1080.4	945.3	830.5	741.7	680.4	638.9	616.1	598.7	579.8	551.1
55°	1091.8	981.7	856.2	747.3	665.3	605.3	569.0	549.2	534.9	520.6	503.0
57.5°	961.6	875.5	764.3	664.7	589.2	534.7	500.8	481.5	470.3	463.0	452.7
60°	870.0	796.3	700.5	609.7	536.0	487.5	454.5	439.7	430.3	424.3	416.5
62.5°	785.1	724.5	635.8	552.9	488.4	442.6	413.2	398.8	389.8	386.9	380.5
65°	659.8	613.0	539.8	471.1	416.0	376.9	352.2	338.4	332.9	329.6	330.2
67.5°	536.4	507.9	449.1	390.4	346.6	313.8	294.0	283.4	280.6	276.2	276.1
70°	461.1	439.7	390.1	339.0	299.9	274.6	257.0	246.0	243.2	241.0	240.5
72.5°	394.7	375.9	332.9	291.9	256.7	234.6	220.0	213.4	208.9	207.6	207.5
75°	296.6	286.2	252.0	219.6	195.3	179.9	170.1	164.0	160.7	160.1	160.7
77.5°	210.8	201.7	180.0	157.0	141.8	130.1	121.7	119.6	115.9	116.0	115.4
80°	158.5	152.5	138.7	120.5	107.9	97.9	93.5	89.7	88.6	86.9	88.6
82.5°	114.9	108.4	99.1	87.5	77.0	71.1	66.7	65.5	64.8	64.1	64.4
85°	56.7	57.2	51.7	42.9	38.5	35.2	32.4	32.4	31.9	31.4	31.9
87.5°	20.3	19.3	17.4	16.0	13.7	12.2	11.7	12.0	10.8	10.4	11.0
90°	4.7	4.2	3.6	3.0	2.4	1.7	1.1	0.4	1.1	1.7	2.4
92.5°	12.8	12.1	11.3	10.8	10.4	9.9	9.4	9.0	9.4	9.9	10.4
95°	26.8	26.0	25.2	24.7	24.5	24.4	24.2	24.1	24.2	24.4	24.5
97.5°	43.0	41.9	40.8	40.2	40.1	40.0	39.9	39.9	39.9	40.0	40.1
100°	54.4	53.3	52.3	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
102.5°	67.3	66.8	66.2	65.8	65.5	65.1	64.7	64.4	64.7	65.1	65.5
105°	87.3	86.8	86.3	85.9	85.4	85.0	84.6	84.2	84.6	85.0	85.4
107.5°	108.9	108.5	108.2	107.8	107.4	107.0	106.6	106.2	106.6	107.0	107.4
110°	123.7	123.4	123.2	122.9	122.5	122.1	121.6	121.2	121.6	122.1	122.5



TEST NUMBER: P333431-930

CATALOG NUMBER: S125DIW-S1090D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	138.4	138.0	137.7	137.5	137.2	137.0	136.8	136.6	136.8	137.0	137.2
115°	161.2	161.0	160.9	160.6	160.3	160.0	159.6	159.2	159.6	160.0	160.3
117.5°	183.0	183.0	182.8	182.6	182.5	182.3	182.1	182.1	182.1	182.3	182.5
120°	198.3	198.2	198.1	197.9	197.5	197.1	196.7	196.2	196.7	197.1	197.5
122.5°	212.8	212.5	212.4	212.1	212.1	211.9	211.7	211.6	211.7	211.9	212.1
125°	234.9	234.8	234.7	234.4	233.9	233.4	232.9	232.4	232.9	233.4	233.9
127.5°	256.1	256.0	255.9	255.8	255.4	255.2	254.9	254.6	254.9	255.2	255.4
130°	270.2	270.0	269.9	269.5	269.1	268.7	268.3	267.9	268.3	268.7	269.1
132.5°	284.1	284.2	284.2	283.9	283.2	282.6	281.8	281.2	281.8	282.6	283.2
135°	304.7	304.6	304.5	304.3	303.8	303.3	302.8	302.2	302.8	303.3	303.8
137.5°	324.7	324.5	324.3	324.0	323.5	323.0	322.5	322.0	322.5	323.0	323.5
140°	337.3	337.0	336.8	336.4	336.0	335.6	335.2	334.8	335.2	335.6	336.0
142.5°	349.8	349.5	349.2	348.9	348.5	348.2	347.8	347.5	347.8	348.2	348.5
145°	368.3	368.0	367.8	367.5	367.2	366.9	366.6	366.2	366.6	366.9	367.2
147.5°	384.8	384.6	384.4	384.3	384.0	383.8	383.7	383.5	383.7	383.8	384.0
150°	395.5	395.2	394.8	394.7	394.8	394.8	394.9	395.0	394.9	394.8	394.8
152.5°	405.4	405.2	405.0	405.0	404.8	404.7	404.6	404.5	404.6	404.7	404.8
155°	419.2	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1
157.5°	431.5	431.4	431.3	431.3	431.5	431.7	431.9	432.0	431.9	431.7	431.5
160°	438.8	438.7	438.6	438.7	439.0	439.2	439.5	439.8	439.5	439.2	439.0
162.5°	445.7	445.7	445.7	445.8	446.0	446.2	446.4	446.5	446.4	446.2	446.0
165°	455.1	455.0	454.9	454.9	455.1	455.3	455.4	455.6	455.4	455.3	455.1
167.5°	461.9	461.9	461.9	462.0	462.4	462.7	463.0	463.3	463.0	462.7	462.4
170°	465.9	465.9	465.9	466.1	466.4	466.8	467.1	467.4	467.1	466.8	466.4
172.5°	469.0	469.0	469.0	469.1	469.4	469.8	470.1	470.4	470.1	469.8	469.4
175°	472.2	472.2	472.2	472.4	472.7	473.0	473.4	473.8	473.4	473.0	472.7
177.5°	474.1	474.2	474.2	474.3	474.7	474.9	475.2	475.4	475.2	474.9	474.7
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8



TEST NUMBER: P333431-930

CATALOG NUMBER: S125DIW-S1090D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1274.0	1269.2	1265.2	1256.4	1251.6	1245.0	1239.7	1245.4	1239.3	1241.9	1238.0
5°	1234.3	1218.9	1207.9	1191.9	1178.2	1165.5	1156.2	1154.5	1150.1	1147.9	1141.3
7.5°	1186.5	1167.3	1148.3	1127.4	1109.8	1091.8	1080.4	1071.0	1064.7	1056.5	1050.8
10°	1158.4	1132.5	1110.5	1085.2	1063.2	1043.9	1028.5	1020.8	1013.7	1003.1	999.3
12.5°	1123.6	1096.8	1070.0	1042.9	1021.7	1000.3	987.1	975.4	970.5	958.7	957.5
15°	1081.9	1041.7	1015.3	987.7	958.6	941.0	930.0	917.3	911.8	903.6	897.5
17.5°	1032.1	996.2	963.2	934.7	909.7	894.9	881.3	872.5	863.1	857.7	847.7
20°	996.1	961.9	928.9	898.6	879.4	862.3	851.3	843.0	833.2	830.4	820.5
22.5°	965.6	928.0	896.3	870.9	849.9	830.6	818.7	813.1	806.2	797.8	795.8
25°	916.2	877.2	850.2	824.9	806.2	788.6	780.3	773.1	766.5	760.5	758.3
27.5°	873.5	838.6	806.6	783.7	767.4	751.4	744.1	735.4	730.6	725.7	719.7
30°	843.6	807.8	779.8	757.7	740.1	725.9	718.1	712.1	707.7	703.3	699.9
32.5°	812.8	779.7	752.4	730.9	713.3	702.5	695.7	691.4	686.6	681.3	677.1
35°	772.1	735.7	709.3	690.6	676.9	668.6	660.9	657.0	651.5	651.5	647.1
37.5°	726.2	694.8	671.5	654.4	642.0	634.7	626.3	623.7	620.2	617.8	616.3
40°	698.9	669.7	647.7	630.6	617.4	611.4	604.8	600.4	598.2	595.4	594.3
42.5°	670.7	642.9	621.7	606.0	594.5	589.4	583.2	580.1	575.7	572.1	571.4
45°	627.9	600.9	581.6	569.0	559.1	553.0	549.2	542.6	540.4	536.0	535.4
47.5°	587.3	561.4	542.5	532.1	523.4	518.4	512.4	505.8	503.3	501.1	500.8
50°	556.9	533.2	515.6	505.7	497.5	490.3	484.3	479.9	478.2	478.2	479.3
52.5°	526.1	505.9	491.0	478.8	471.1	463.4	457.9	455.2	452.7	455.3	457.3
55°	480.9	460.6	449.6	438.1	430.3	421.5	418.7	417.7	416.0	420.4	422.7
57.5°	433.2	418.9	406.0	394.5	387.6	382.5	378.8	378.1	381.2	383.4	390.4
60°	402.8	386.3	374.7	365.9	357.7	354.4	353.3	352.2	354.4	360.4	369.8
62.5°	369.3	356.0	343.5	336.9	330.8	325.3	325.1	325.8	330.2	337.1	346.4
65°	320.2	308.7	300.4	292.8	287.8	284.5	285.6	287.8	292.8	302.1	312.6
67.5°	270.4	262.5	255.1	248.8	244.1	244.1	245.2	248.5	254.4	265.1	274.7
70°	238.3	229.5	223.4	220.7	216.8	214.6	217.9	223.4	228.4	238.3	246.5
72.5°	206.1	198.7	194.0	192.1	190.4	188.7	189.7	195.7	202.4	212.3	221.8
75°	158.5	155.7	152.5	150.3	148.5	149.7	150.7	156.3	161.8	172.3	183.3
77.5°	115.7	112.8	110.8	110.3	109.4	110.0	113.0	117.1	122.5	130.1	138.4
80°	87.5	86.4	85.3	84.7	84.7	85.3	89.7	92.5	97.4	104.5	111.1
82.5°	63.8	63.0	62.9	62.7	63.2	63.3	66.0	69.5	73.6	79.0	84.7
85°	33.6	32.4	34.1	34.7	33.6	35.2	36.3	38.5	40.2	42.9	45.7
87.5°	11.6	12.6	12.3	12.8	13.0	13.9	13.6	15.4	16.4	17.4	17.0
90°	3.0	3.6	4.2	4.7	5.3	6.0	6.4	6.8	7.2	7.6	7.9
92.5°	10.8	11.3	12.1	12.8	13.5	14.2	14.8	15.2	15.8	16.4	16.7
95°	24.7	25.2	26.0	26.8	27.6	28.5	29.0	29.6	30.2	30.7	31.1
97.5°	40.2	40.8	41.9	43.0	44.2	45.3	45.8	46.4	47.0	47.5	47.8
100°	51.8	52.3	53.3	54.4	55.4	56.5	57.3	58.0	58.8	59.5	59.9
102.5°	65.8	66.2	66.8	67.3	67.8	68.3	69.1	70.0	70.8	71.6	72.1
105°	85.9	86.3	86.8	87.3	87.8	88.3	88.8	89.3	89.8	90.3	90.7
107.5°	107.8	108.2	108.5	108.9	109.3	109.7	109.9	110.1	110.4	110.6	110.8
110°	122.9	123.2	123.4	123.7	123.9	124.2	124.4	124.7	124.9	125.1	125.2



TEST NUMBER: P333431-930

CATALOG NUMBER: S125DIW-S1090D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	137.5	137.7	138.0	138.4	138.6	138.9	139.1	139.2	139.3	139.4	139.4
115°	160.6	160.9	161.0	161.2	161.3	161.5	161.4	161.3	161.3	161.2	161.1
117.5°	182.6	182.8	183.0	183.0	183.2	183.4	183.4	183.5	183.5	183.6	183.5
120°	197.9	198.1	198.2	198.3	198.4	198.4	198.4	198.4	198.4	198.4	198.3
122.5°	212.1	212.4	212.5	212.8	213.0	213.2	213.1	213.1	213.0	213.0	212.8
125°	234.4	234.7	234.8	234.9	235.0	235.1	234.9	234.7	234.6	234.4	234.2
127.5°	255.8	255.9	256.0	256.1	256.2	256.3	256.2	256.2	256.1	256.0	255.8
130°	269.5	269.9	270.0	270.2	270.4	270.5	270.4	270.4	270.3	270.2	270.0
132.5°	283.9	284.2	284.2	284.1	284.1	284.1	284.0	283.9	283.8	283.7	283.6
135°	304.3	304.5	304.6	304.7	304.8	304.8	304.8	304.8	304.8	304.8	304.7
137.5°	324.0	324.3	324.5	324.7	324.8	325.1	325.1	325.2	325.3	325.5	325.3
140°	336.4	336.8	337.0	337.3	337.5	337.8	337.9	338.1	338.3	338.4	338.3
142.5°	348.9	349.2	349.5	349.8	350.2	350.5	350.6	350.7	350.7	350.8	350.7
145°	367.5	367.8	368.0	368.3	368.5	368.8	368.8	368.8	368.8	368.8	368.7
147.5°	384.3	384.4	384.6	384.8	385.0	385.2	385.4	385.6	385.8	386.0	385.8
150°	394.7	394.8	395.2	395.5	395.8	396.2	396.2	396.2	396.2	396.2	396.1
152.5°	405.0	405.0	405.2	405.4	405.4	405.6	405.8	406.0	406.2	406.3	406.3
155°	419.1	419.1	419.1	419.2	419.3	419.4	419.7	420.0	420.4	420.7	420.7
157.5°	431.3	431.3	431.4	431.5	431.5	431.6	431.9	432.3	432.6	432.9	432.8
160°	438.7	438.6	438.7	438.8	438.9	439.0	439.4	439.7	440.0	440.3	440.3
162.5°	445.8	445.7	445.7	445.7	445.8	445.8	446.2	446.6	446.9	447.4	447.4
165°	454.9	454.9	455.0	455.1	455.2	455.3	455.6	455.9	456.2	456.6	456.5
167.5°	462.0	461.9	461.9	461.9	461.9	461.9	462.4	462.8	463.3	463.8	463.8
170°	466.1	465.9	465.9	465.9	465.9	465.9	466.4	466.9	467.4	468.0	467.9
172.5°	469.1	469.0	469.0	469.0	469.0	469.0	469.4	469.9	470.4	470.9	470.9
175°	472.4	472.2	472.2	472.2	472.2	472.2	472.7	473.2	473.8	474.3	474.2
177.5°	474.3	474.2	474.2	474.1	474.0	473.9	474.3	474.7	475.2	475.6	475.5
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8



TEST NUMBER: P333431-930

CATALOG NUMBER: S125DIW-S1090D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1235.3	1238.4	1235.7	1239.3	1235.7	1238.4	1235.3	1238.0	1241.9	1239.3	1245.4
5°	1138.6	1133.6	1136.9	1134.7	1136.9	1133.6	1138.6	1141.3	1147.9	1150.1	1154.5
7.5°	1049.2	1044.5	1039.0	1036.5	1039.0	1044.5	1049.2	1050.8	1056.5	1064.7	1071.0
10°	993.3	987.2	986.7	982.8	986.7	987.2	993.3	999.3	1003.1	1013.7	1020.8
12.5°	952.4	946.7	940.4	938.8	940.4	946.7	952.4	957.5	958.7	970.5	975.4
15°	894.2	889.8	886.0	889.2	886.0	889.8	894.2	897.5	903.6	911.8	917.3
17.5°	845.9	842.3	841.6	837.6	841.6	842.3	845.9	847.7	857.7	863.1	872.5
20°	815.5	812.8	813.9	806.7	813.9	812.8	815.5	820.5	830.4	833.2	843.0
22.5°	791.3	785.9	785.3	783.8	785.3	785.9	791.3	795.8	797.8	806.2	813.1
25°	753.3	750.6	747.9	750.6	747.9	750.6	753.3	758.3	760.5	766.5	773.1
27.5°	720.2	716.9	716.2	716.5	716.2	716.9	720.2	719.7	725.7	730.6	735.4
30°	699.9	694.5	695.0	694.5	695.0	694.5	699.9	699.9	703.3	707.7	712.1
32.5°	677.9	674.2	673.4	672.5	673.4	674.2	677.9	677.1	681.3	686.6	691.4
35°	645.5	645.5	642.7	642.7	642.7	645.5	645.5	647.1	651.5	651.5	657.0
37.5°	615.0	614.4	612.8	613.0	612.8	614.4	615.0	616.3	617.8	620.2	623.7
40°	592.1	591.6	589.9	586.6	589.9	591.6	592.1	594.3	595.4	598.2	600.4
42.5°	570.1	568.3	567.4	566.4	567.4	568.3	570.1	571.4	572.1	575.7	580.1
45°	535.4	535.4	534.3	533.8	534.3	535.4	535.4	535.4	536.0	540.4	542.6
47.5°	501.7	502.7	504.8	504.5	504.8	502.7	501.7	500.8	501.1	503.3	505.8
50°	481.5	482.1	483.7	484.3	483.7	482.1	481.5	479.3	478.2	478.2	479.9
52.5°	459.0	462.3	464.3	464.0	464.3	462.3	459.0	457.3	455.3	452.7	455.2
55°	427.5	431.5	435.3	435.9	435.3	431.5	427.5	422.7	420.4	416.0	417.7
57.5°	396.4	401.8	405.9	407.2	405.9	401.8	396.4	390.4	383.4	381.2	378.1
60°	375.3	382.5	387.4	389.6	387.4	382.5	375.3	369.8	360.4	354.4	352.2
62.5°	355.1	363.1	368.0	368.4	368.0	363.1	355.1	346.4	337.1	330.2	325.8
65°	321.9	330.2	334.6	337.9	334.6	330.2	321.9	312.6	302.1	292.8	287.8
67.5°	286.3	294.5	299.4	302.0	299.4	294.5	286.3	274.7	265.1	254.4	248.5
70°	260.3	268.6	275.2	277.4	275.2	268.6	260.3	246.5	238.3	228.4	223.4
72.5°	234.7	242.1	247.4	250.1	247.4	242.1	234.7	221.8	212.3	202.4	195.7
75°	190.4	200.3	205.3	208.0	205.3	200.3	190.4	183.3	172.3	161.8	156.3
77.5°	146.8	155.8	158.8	160.2	158.8	155.8	146.8	138.4	130.1	122.5	117.1
80°	117.7	123.3	127.1	127.7	127.1	123.3	117.7	111.1	104.5	97.4	92.5
82.5°	90.5	95.1	96.3	97.8	96.3	95.1	90.5	84.7	79.0	73.6	69.5
85°	49.5	51.7	52.3	51.7	52.3	51.7	49.5	45.7	42.9	40.2	38.5
87.5°	17.9	17.5	17.6	18.5	17.6	17.5	17.9	17.0	17.4	16.4	15.4
90°	8.2	8.4	8.6	8.9	8.6	8.4	8.2	7.9	7.6	7.2	6.8
92.5°	16.9	17.0	17.3	17.4	17.3	17.0	16.9	16.7	16.4	15.8	15.2
95°	31.3	31.5	31.6	31.8	31.6	31.5	31.3	31.1	30.7	30.2	29.6
97.5°	47.9	48.0	48.1	48.2	48.1	48.0	47.9	47.8	47.5	47.0	46.4
100°	60.1	60.3	60.4	60.6	60.4	60.3	60.1	59.9	59.5	58.8	58.0
102.5°	72.3	72.6	72.8	73.1	72.8	72.6	72.3	72.1	71.6	70.8	70.0
105°	90.9	91.2	91.4	91.6	91.4	91.2	90.9	90.7	90.3	89.8	89.3
107.5°	110.8	110.7	110.7	110.7	110.7	110.7	110.8	110.8	110.6	110.4	110.1
110°	125.1	125.1	125.0	124.9	125.0	125.1	125.1	125.2	125.1	124.9	124.7



TEST NUMBER: P333431-930

CATALOG NUMBER: S125DIW-S1090D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	139.3	139.1	138.9	138.8	138.9	139.1	139.3	139.4	139.4	139.3	139.2
115°	161.0	160.9	160.9	160.8	160.9	160.9	161.0	161.1	161.2	161.3	161.3
117.5°	183.2	182.9	182.5	182.1	182.5	182.9	183.2	183.5	183.6	183.5	183.5
120°	198.0	197.6	197.3	197.0	197.3	197.6	198.0	198.3	198.4	198.4	198.4
122.5°	212.5	212.3	212.0	211.7	212.0	212.3	212.5	212.8	213.0	213.0	213.1
125°	234.2	234.1	234.0	233.9	234.0	234.1	234.2	234.2	234.4	234.6	234.7
127.5°	255.7	255.5	255.4	255.2	255.4	255.5	255.7	255.8	256.0	256.1	256.2
130°	269.9	269.7	269.5	269.4	269.5	269.7	269.9	270.0	270.2	270.3	270.4
132.5°	283.4	283.2	282.9	282.7	282.9	283.2	283.4	283.6	283.7	283.8	283.9
135°	304.4	304.0	303.7	303.4	303.7	304.0	304.4	304.7	304.8	304.8	304.8
137.5°	324.9	324.5	324.0	323.6	324.0	324.5	324.9	325.3	325.5	325.3	325.2
140°	337.9	337.5	337.0	336.6	337.0	337.5	337.9	338.3	338.4	338.3	338.1
142.5°	350.3	349.8	349.4	349.0	349.4	349.8	350.3	350.7	350.8	350.7	350.7
145°	368.4	368.2	367.9	367.7	367.9	368.2	368.4	368.7	368.8	368.8	368.8
147.5°	385.2	384.7	384.1	383.6	384.1	384.7	385.2	385.8	386.0	385.8	385.6
150°	395.9	395.7	395.6	395.4	395.6	395.7	395.9	396.1	396.2	396.2	396.2
152.5°	406.0	405.8	405.4	405.1	405.4	405.8	406.0	406.3	406.3	406.2	406.0
155°	420.3	419.9	419.5	419.1	419.5	419.9	420.3	420.7	420.7	420.4	420.0
157.5°	432.3	431.7	431.2	430.6	431.2	431.7	432.3	432.8	432.9	432.6	432.3
160°	439.9	439.4	439.0	438.6	439.0	439.4	439.9	440.3	440.3	440.0	439.7
162.5°	446.9	446.4	445.9	445.4	445.9	446.4	446.9	447.4	447.4	446.9	446.6
165°	456.0	455.5	455.0	454.5	455.0	455.5	456.0	456.5	456.6	456.2	455.9
167.5°	463.3	462.8	462.3	461.8	462.3	462.8	463.3	463.8	463.8	463.3	462.8
170°	467.3	466.8	466.2	465.6	466.2	466.8	467.3	467.9	468.0	467.4	466.9
172.5°	470.3	469.9	469.4	468.9	469.4	469.9	470.3	470.9	470.9	470.4	469.9
175°	473.6	473.0	472.5	471.9	472.5	473.0	473.6	474.2	474.3	473.8	473.2
177.5°	475.1	474.6	474.1	473.7	474.1	474.6	475.1	475.5	475.6	475.2	474.7
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8



TEST NUMBER: P333431-930

CATALOG NUMBER: S125DIW-S1090D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1239.7	1245.0	1251.6	1256.4	1265.2	1269.2	1274.0	1278.0	1285.0	1291.6	1299.6
5°	1156.2	1165.5	1178.2	1191.9	1207.9	1218.9	1234.3	1243.7	1262.3	1279.4	1295.9
7.5°	1080.4	1091.8	1109.8	1127.4	1148.3	1167.3	1186.5	1207.9	1231.8	1260.0	1283.3
10°	1028.5	1043.9	1063.2	1085.2	1110.5	1132.5	1158.4	1181.5	1210.6	1243.7	1274.5
12.5°	987.1	1000.3	1021.7	1042.9	1070.0	1096.8	1123.6	1154.1	1188.2	1224.7	1263.5
15°	930.0	941.0	958.6	987.7	1015.3	1041.7	1081.9	1110.5	1153.4	1194.1	1240.9
17.5°	881.3	894.9	909.7	934.7	963.2	996.2	1032.1	1068.0	1109.4	1161.0	1213.7
20°	851.3	862.3	879.4	898.6	928.9	961.9	996.1	1032.3	1083.0	1136.4	1193.0
22.5°	818.7	830.6	849.9	870.9	896.3	928.0	965.6	1005.5	1058.3	1110.8	1172.3
25°	780.3	788.6	806.2	824.9	850.2	877.2	916.2	960.3	1012.5	1072.5	1135.2
27.5°	744.1	751.4	767.4	783.7	806.6	838.6	873.5	918.0	967.3	1028.0	1097.6
30°	718.1	725.9	740.1	757.7	779.8	807.8	843.6	885.4	938.2	997.7	1070.3
32.5°	695.7	702.5	713.3	730.9	752.4	779.7	812.8	855.5	908.3	968.6	1039.9
35°	660.9	668.6	676.9	690.6	709.3	735.7	772.1	812.2	862.8	921.2	986.7
37.5°	626.3	634.7	642.0	654.4	671.5	694.8	726.2	768.0	813.8	870.0	932.9
40°	604.8	611.4	617.4	630.6	647.7	669.7	698.9	736.3	784.7	837.0	889.2
42.5°	583.2	589.4	594.5	606.0	621.7	642.9	670.7	707.2	752.1	800.9	847.0
45°	549.2	553.0	559.1	569.0	581.6	600.9	627.9	660.3	698.3	744.5	779.2
47.5°	512.4	518.4	523.4	532.1	542.5	561.4	587.3	614.9	649.3	683.7	708.1
50°	484.3	490.3	497.5	505.7	515.6	533.2	556.9	585.0	614.1	640.5	661.5
52.5°	457.9	463.4	471.1	478.8	491.0	505.9	526.1	551.1	579.8	598.7	616.1
55°	418.7	421.5	430.3	438.1	449.6	460.6	480.9	503.0	520.6	534.9	549.2
57.5°	378.8	382.5	387.6	394.5	406.0	418.9	433.2	452.7	463.0	470.3	481.5
60°	353.3	354.4	357.7	365.9	374.7	386.3	402.8	416.5	424.3	430.3	439.7
62.5°	325.1	325.3	330.8	336.9	343.5	356.0	369.3	380.5	386.9	389.8	398.8
65°	285.6	284.5	287.8	292.8	300.4	308.7	320.2	330.2	329.6	332.9	338.4
67.5°	245.2	244.1	244.1	248.8	255.1	262.5	270.4	276.1	276.2	280.6	283.4
70°	217.9	214.6	216.8	220.7	223.4	229.5	238.3	240.5	241.0	243.2	246.0
72.5°	189.7	188.7	190.4	192.1	194.0	198.7	206.1	207.5	207.6	208.9	213.4
75°	150.7	149.7	148.5	150.3	152.5	155.7	158.5	160.7	160.1	160.7	164.0
77.5°	113.0	110.0	109.4	110.3	110.8	112.8	115.7	115.4	116.0	115.9	119.6
80°	89.7	85.3	84.7	84.7	85.3	86.4	87.5	88.6	86.9	88.6	89.7
82.5°	66.0	63.3	63.2	62.7	62.9	63.0	63.8	64.4	64.1	64.8	65.5
85°	36.3	35.2	33.6	34.7	34.1	32.4	33.6	31.9	31.4	31.9	32.4
87.5°	13.6	13.9	13.0	12.8	12.3	12.6	11.6	11.0	10.4	10.8	12.0
90°	6.4	6.0	5.3	4.7	4.2	3.6	3.0	2.4	1.7	1.1	0.4
92.5°	14.8	14.2	13.5	12.8	12.1	11.3	10.8	10.4	9.9	9.4	9.0
95°	29.0	28.5	27.6	26.8	26.0	25.2	24.7	24.5	24.4	24.2	24.1
97.5°	45.8	45.3	44.2	43.0	41.9	40.8	40.2	40.1	40.0	39.9	39.9
100°	57.3	56.5	55.4	54.4	53.3	52.3	51.8	51.8	51.8	51.8	51.8
102.5°	69.1	68.3	67.8	67.3	66.8	66.2	65.8	65.5	65.1	64.7	64.4
105°	88.8	88.3	87.8	87.3	86.8	86.3	85.9	85.4	85.0	84.6	84.2
107.5°	109.9	109.7	109.3	108.9	108.5	108.2	107.8	107.4	107.0	106.6	106.2
110°	124.4	124.2	123.9	123.7	123.4	123.2	122.9	122.5	122.1	121.6	121.2



TEST NUMBER: P333431-930

CATALOG NUMBER: S125DIW-S1090D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	139.1	138.9	138.6	138.4	138.0	137.7	137.5	137.2	137.0	136.8	136.6
115°	161.4	161.5	161.3	161.2	161.0	160.9	160.6	160.3	160.0	159.6	159.2
117.5°	183.4	183.4	183.2	183.0	183.0	182.8	182.6	182.5	182.3	182.1	182.1
120°	198.4	198.4	198.4	198.3	198.2	198.1	197.9	197.5	197.1	196.7	196.2
122.5°	213.1	213.2	213.0	212.8	212.5	212.4	212.1	212.1	211.9	211.7	211.6
125°	234.9	235.1	235.0	234.9	234.8	234.7	234.4	233.9	233.4	232.9	232.4
127.5°	256.2	256.3	256.2	256.1	256.0	255.9	255.8	255.4	255.2	254.9	254.6
130°	270.4	270.5	270.4	270.2	270.0	269.9	269.5	269.1	268.7	268.3	267.9
132.5°	284.0	284.1	284.1	284.1	284.2	284.2	283.9	283.2	282.6	281.8	281.2
135°	304.8	304.8	304.8	304.7	304.6	304.5	304.3	303.8	303.3	302.8	302.2
137.5°	325.1	325.1	324.8	324.7	324.5	324.3	324.0	323.5	323.0	322.5	322.0
140°	337.9	337.8	337.5	337.3	337.0	336.8	336.4	336.0	335.6	335.2	334.8
142.5°	350.6	350.5	350.2	349.8	349.5	349.2	348.9	348.5	348.2	347.8	347.5
145°	368.8	368.8	368.5	368.3	368.0	367.8	367.5	367.2	366.9	366.6	366.2
147.5°	385.4	385.2	385.0	384.8	384.6	384.4	384.3	384.0	383.8	383.7	383.5
150°	396.2	396.2	395.8	395.5	395.2	394.8	394.7	394.8	394.8	394.9	395.0
152.5°	405.8	405.6	405.4	405.4	405.2	405.0	405.0	404.8	404.7	404.6	404.5
155°	419.7	419.4	419.3	419.2	419.1	419.1	419.1	419.1	419.1	419.1	419.1
157.5°	431.9	431.6	431.5	431.5	431.4	431.3	431.3	431.5	431.7	431.9	432.0
160°	439.4	439.0	438.9	438.8	438.7	438.6	438.7	439.0	439.2	439.5	439.8
162.5°	446.2	445.8	445.8	445.7	445.7	445.7	445.8	446.0	446.2	446.4	446.5
165°	455.6	455.3	455.2	455.1	455.0	454.9	454.9	455.1	455.3	455.4	455.6
167.5°	462.4	461.9	461.9	461.9	461.9	461.9	462.0	462.4	462.7	463.0	463.3
170°	466.4	465.9	465.9	465.9	465.9	465.9	466.1	466.4	466.8	467.1	467.4
172.5°	469.4	469.0	469.0	469.0	469.0	469.0	469.1	469.4	469.8	470.1	470.4
175°	472.7	472.2	472.2	472.2	472.2	472.2	472.4	472.7	473.0	473.4	473.8
177.5°	474.3	473.9	474.0	474.1	474.2	474.2	474.3	474.7	474.9	475.2	475.4
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8



TEST NUMBER: P333431-930

CATALOG NUMBER: S125DIW-S1090D470U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1303.5	1309.7	1313.6	1321.1	1327.3	1330.8	1333.9	1336.5	1339.6	1342.2	1349.7
5°	1311.9	1326.2	1338.3	1357.0	1374.1	1387.3	1401.6	1414.2	1424.7	1439.6	1451.1
7.5°	1308.2	1333.7	1360.3	1389.3	1418.9	1446.3	1471.7	1495.3	1516.8	1542.8	1565.5
10°	1304.7	1339.4	1373.5	1412.6	1452.8	1486.9	1518.8	1551.3	1574.9	1607.9	1636.0
12.5°	1302.1	1342.9	1384.1	1431.1	1475.2	1523.4	1565.9	1589.6	1625.5	1652.0	1685.3
15°	1290.9	1344.9	1401.6	1454.4	1517.1	1561.7	1599.1	1645.4	1678.9	1712.5	1748.8
17.5°	1271.1	1332.1	1395.5	1464.8	1524.9	1572.8	1621.1	1665.6	1705.7	1750.7	1795.9
20°	1261.8	1322.9	1395.5	1466.5	1525.4	1575.5	1625.0	1674.0	1718.0	1775.8	1828.1
22.5°	1242.4	1316.3	1383.2	1452.5	1513.0	1567.6	1623.7	1679.3	1737.8	1803.0	1868.6
25°	1207.9	1282.7	1353.7	1422.0	1483.0	1551.3	1611.3	1685.5	1760.4	1846.7	1928.2
27.5°	1172.0	1243.7	1308.7	1374.6	1445.9	1523.1	1600.9	1685.2	1783.1	1892.2	2007.1
30°	1143.0	1210.6	1273.9	1341.6	1415.8	1502.8	1588.1	1688.2	1801.6	1924.4	2060.8
32.5°	1109.1	1171.4	1233.0	1304.6	1385.5	1477.3	1576.7	1686.5	1822.8	1962.2	2102.7
35°	1051.1	1103.3	1166.6	1243.1	1334.5	1439.6	1554.5	1684.4	1840.7	2000.8	2119.1
37.5°	982.3	1030.9	1097.6	1181.5	1277.2	1390.0	1526.5	1680.6	1846.6	1974.2	2012.4
40°	936.0	981.1	1050.5	1137.4	1235.4	1354.8	1504.5	1667.4	1828.1	1909.5	1878.1
42.5°	886.7	934.1	1001.6	1087.7	1193.1	1323.1	1476.8	1639.6	1774.3	1805.2	1696.7
45°	808.9	857.9	924.5	1011.5	1124.8	1265.7	1425.8	1573.9	1651.4	1595.9	1428.0
47.5°	736.6	782.5	844.2	933.9	1050.9	1196.6	1350.9	1468.9	1475.1	1342.5	1163.2
50°	687.3	729.7	791.9	881.6	997.7	1145.2	1284.3	1377.4	1335.5	1185.3	1013.1
52.5°	638.9	680.4	741.7	830.5	945.3	1080.4	1210.0	1275.2	1196.5	1042.3	895.1
55°	569.0	605.3	665.3	747.3	856.2	981.7	1091.8	1114.4	1011.9	860.1	740.7
57.5°	500.8	534.7	589.2	664.7	764.3	875.5	961.6	956.8	848.6	718.2	623.5
60°	454.5	487.5	536.0	609.7	700.5	796.3	870.0	852.4	745.1	632.8	553.0
62.5°	413.2	442.6	488.4	552.9	635.8	724.5	785.1	759.0	654.0	555.8	492.8
65°	352.2	376.9	416.0	471.1	539.8	613.0	659.8	626.2	536.5	460.1	409.4
67.5°	294.0	313.8	346.6	390.4	449.1	507.9	536.4	502.6	430.9	375.0	337.5
70°	257.0	274.6	299.9	339.0	390.1	439.7	461.1	430.9	369.2	321.4	294.4
72.5°	220.0	234.6	256.7	291.9	332.9	375.9	394.7	365.7	315.1	274.7	249.5
75°	170.1	179.9	195.3	219.6	252.0	286.2	296.6	271.3	238.8	208.6	192.1
77.5°	121.7	130.1	141.8	157.0	180.0	201.7	210.8	196.2	171.1	152.0	138.4
80°	93.5	97.9	107.9	120.5	138.7	152.5	158.5	149.1	131.5	117.2	106.7
82.5°	66.7	71.1	77.0	87.5	99.1	108.4	114.9	108.6	95.9	84.6	78.6
85°	32.4	35.2	38.5	42.9	51.7	57.2	56.7	52.8	47.9	43.5	40.2
87.5°	11.7	12.2	13.7	16.0	17.4	19.3	20.3	19.6	17.9	16.6	15.4
90°	1.1	1.7	2.4	3.0	3.6	4.2	4.7	5.3	6.0	6.4	6.8
92.5°	9.4	9.9	10.4	10.8	11.3	12.1	12.8	13.5	14.2	14.8	15.2
95°	24.2	24.4	24.5	24.7	25.2	26.0	26.8	27.6	28.5	29.0	29.6
97.5°	39.9	40.0	40.1	40.2	40.8	41.9	43.0	44.2	45.3	45.8	46.4
100°	51.8	51.8	51.8	51.8	52.3	53.3	54.4	55.4	56.5	57.3	58.0
102.5°	64.7	65.1	65.5	65.8	66.2	66.8	67.3	67.8	68.3	69.1	70.0
105°	84.6	85.0	85.4	85.9	86.3	86.8	87.3	87.8	88.3	88.8	89.3
107.5°	106.6	107.0	107.4	107.8	108.2	108.5	108.9	109.3	109.7	109.9	110.1
110°	121.6	122.1	122.5	122.9	123.2	123.4	123.7	123.9	124.2	124.4	124.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	136.8	137.0	137.2	137.5	137.7	138.0	138.4	138.6	138.9	139.1	139.2
115°	159.6	160.0	160.3	160.6	160.9	161.0	161.2	161.3	161.5	161.4	161.3
117.5°	182.1	182.3	182.5	182.6	182.8	183.0	183.0	183.2	183.4	183.4	183.5
120°	196.7	197.1	197.5	197.9	198.1	198.2	198.3	198.4	198.4	198.4	198.4
122.5°	211.7	211.9	212.1	212.1	212.4	212.5	212.8	213.0	213.2	213.1	213.1
125°	232.9	233.4	233.9	234.4	234.7	234.8	234.9	235.0	235.1	234.9	234.7
127.5°	254.9	255.2	255.4	255.8	255.9	256.0	256.1	256.2	256.3	256.2	256.2
130°	268.3	268.7	269.1	269.5	269.9	270.0	270.2	270.4	270.5	270.4	270.4
132.5°	281.8	282.6	283.2	283.9	284.2	284.2	284.1	284.1	284.1	284.0	283.9
135°	302.8	303.3	303.8	304.3	304.5	304.6	304.7	304.8	304.8	304.8	304.8
137.5°	322.5	323.0	323.5	324.0	324.3	324.5	324.7	324.8	325.1	325.1	325.2
140°	335.2	335.6	336.0	336.4	336.8	337.0	337.3	337.5	337.8	337.9	338.1
142.5°	347.8	348.2	348.5	348.9	349.2	349.5	349.8	350.2	350.5	350.6	350.7
145°	366.6	366.9	367.2	367.5	367.8	368.0	368.3	368.5	368.8	368.8	368.8
147.5°	383.7	383.8	384.0	384.3	384.4	384.6	384.8	385.0	385.2	385.4	385.6
150°	394.9	394.8	394.8	394.7	394.8	395.2	395.5	395.8	396.2	396.2	396.2
152.5°	404.6	404.7	404.8	405.0	405.0	405.2	405.4	405.4	405.6	405.8	406.0
155°	419.1	419.1	419.1	419.1	419.1	419.1	419.2	419.3	419.4	419.7	420.0
157.5°	431.9	431.7	431.5	431.3	431.3	431.4	431.5	431.5	431.6	431.9	432.3
160°	439.5	439.2	439.0	438.7	438.6	438.7	438.8	438.9	439.0	439.4	439.7
162.5°	446.4	446.2	446.0	445.8	445.7	445.7	445.7	445.8	445.8	446.2	446.6
165°	455.4	455.3	455.1	454.9	454.9	455.0	455.1	455.2	455.3	455.6	455.9
167.5°	463.0	462.7	462.4	462.0	461.9	461.9	461.9	461.9	461.9	462.4	462.8
170°	467.1	466.8	466.4	466.1	465.9	465.9	465.9	465.9	465.9	466.4	466.9
172.5°	470.1	469.8	469.4	469.1	469.0	469.0	469.0	469.0	469.0	469.4	469.9
175°	473.4	473.0	472.7	472.4	472.2	472.2	472.2	472.2	472.2	472.7	473.2
177.5°	475.2	474.9	474.7	474.3	474.2	474.2	474.1	474.0	473.9	474.3	474.7
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1355.9	1359.4	1366.9	1364.2	1367.8	1369.5	1371.3
5°	1465.4	1483.0	1490.7	1489.6	1501.2	1498.4	1495.7
7.5°	1589.1	1607.6	1618.0	1630.8	1638.3	1638.8	1645.4
10°	1659.1	1683.3	1693.2	1707.0	1715.8	1720.8	1720.2
12.5°	1712.9	1731.8	1754.0	1760.7	1772.6	1778.8	1776.5
15°	1777.4	1807.7	1830.8	1842.3	1857.3	1861.7	1867.7
17.5°	1835.1	1875.7	1902.7	1938.5	1952.1	1960.3	1955.5
20°	1878.7	1932.1	1959.0	2002.0	2025.6	2038.2	2033.8
22.5°	1930.2	1987.9	2037.8	2075.0	2111.0	2128.1	2131.6
25°	2018.4	2097.7	2170.9	2219.9	2264.4	2274.8	2298.0
27.5°	2117.1	2210.5	2288.8	2340.2	2371.3	2383.0	2390.2
30°	2179.1	2272.2	2331.0	2364.0	2373.9	2372.8	2371.7
32.5°	2209.5	2267.8	2279.1	2269.8	2247.1	2228.0	2208.0
35°	2166.5	2123.0	2058.1	1974.4	1912.8	1850.6	1844.5
37.5°	1948.5	1809.5	1701.4	1580.6	1511.0	1467.9	1438.3
40°	1743.3	1585.3	1454.4	1352.6	1281.7	1253.5	1226.0
42.5°	1520.5	1369.7	1253.7	1168.6	1115.2	1084.1	1062.3
45°	1235.4	1102.2	1011.5	949.8	907.4	883.2	869.4
47.5°	1012.3	913.8	836.7	792.2	763.0	744.1	744.2
50°	892.6	798.5	747.3	712.1	686.7	671.9	674.7
52.5°	786.4	716.2	672.5	642.9	624.3	615.1	614.8
55°	657.6	607.0	578.4	556.9	544.2	533.8	536.0
57.5°	562.5	519.8	500.7	482.8	474.0	469.9	463.7
60°	503.5	470.5	454.0	439.7	430.9	427.5	421.5
62.5°	451.1	425.2	409.1	397.4	389.5	388.4	383.7
65°	379.1	359.3	345.0	339.5	331.3	329.1	329.1
67.5°	312.6	298.4	287.2	282.2	278.6	279.1	276.5
70°	270.8	259.2	252.0	246.5	243.8	244.3	242.1
72.5°	236.8	224.0	217.7	214.4	210.8	212.2	211.3
75°	179.4	172.8	169.5	166.2	164.0	162.9	161.8
77.5°	131.8	125.9	123.4	121.5	121.8	119.2	121.3
80°	101.8	96.9	95.2	92.5	91.9	91.9	91.3
82.5°	74.5	71.7	70.5	68.2	67.3	68.2	66.7
85°	38.5	36.3	35.8	35.8	34.7	33.6	36.3
87.5°	15.5	13.9	13.9	13.5	13.5	13.2	12.3
90°	7.2	7.6	7.9	8.2	8.4	8.6	8.9
92.5°	15.8	16.4	16.7	16.9	17.0	17.3	17.4
95°	30.2	30.7	31.1	31.3	31.5	31.6	31.8
97.5°	47.0	47.5	47.8	47.9	48.0	48.1	48.2
100°	58.8	59.5	59.9	60.1	60.3	60.4	60.6
102.5°	70.8	71.6	72.1	72.3	72.6	72.8	73.1
105°	89.8	90.3	90.7	90.9	91.2	91.4	91.6
107.5°	110.4	110.6	110.8	110.8	110.7	110.7	110.7
110°	124.9	125.1	125.2	125.1	125.1	125.0	124.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	139.3	139.4	139.4	139.3	139.1	138.9	138.8
115°	161.3	161.2	161.1	161.0	160.9	160.9	160.8
117.5°	183.5	183.6	183.5	183.2	182.9	182.5	182.1
120°	198.4	198.4	198.3	198.0	197.6	197.3	197.0
122.5°	213.0	213.0	212.8	212.5	212.3	212.0	211.7
125°	234.6	234.4	234.2	234.2	234.1	234.0	233.9
127.5°	256.1	256.0	255.8	255.7	255.5	255.4	255.2
130°	270.3	270.2	270.0	269.9	269.7	269.5	269.4
132.5°	283.8	283.7	283.6	283.4	283.2	282.9	282.7
135°	304.8	304.8	304.7	304.4	304.0	303.7	303.4
137.5°	325.3	325.5	325.3	324.9	324.5	324.0	323.6
140°	338.3	338.4	338.3	337.9	337.5	337.0	336.6
142.5°	350.7	350.8	350.7	350.3	349.8	349.4	349.0
145°	368.8	368.8	368.7	368.4	368.2	367.9	367.7
147.5°	385.8	386.0	385.8	385.2	384.7	384.1	383.6
150°	396.2	396.2	396.1	395.9	395.7	395.6	395.4
152.5°	406.2	406.3	406.3	406.0	405.8	405.4	405.1
155°	420.4	420.7	420.7	420.3	419.9	419.5	419.1
157.5°	432.6	432.9	432.8	432.3	431.7	431.2	430.6
160°	440.0	440.3	440.3	439.9	439.4	439.0	438.6
162.5°	446.9	447.4	447.4	446.9	446.4	445.9	445.4
165°	456.2	456.6	456.5	456.0	455.5	455.0	454.5
167.5°	463.3	463.8	463.8	463.3	462.8	462.3	461.8
170°	467.4	468.0	467.9	467.3	466.8	466.2	465.6
172.5°	470.4	470.9	470.9	470.3	469.9	469.4	468.9
175°	473.8	474.3	474.2	473.6	473.0	472.5	471.9
177.5°	475.2	475.6	475.5	475.1	474.6	474.1	473.7
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8

(END OF REPORT)