

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: P333252-930

Luminaire Tested: **S125DIP-S1090D365U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333252-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S1090D365U930-4F0-1E-UDD-A4  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

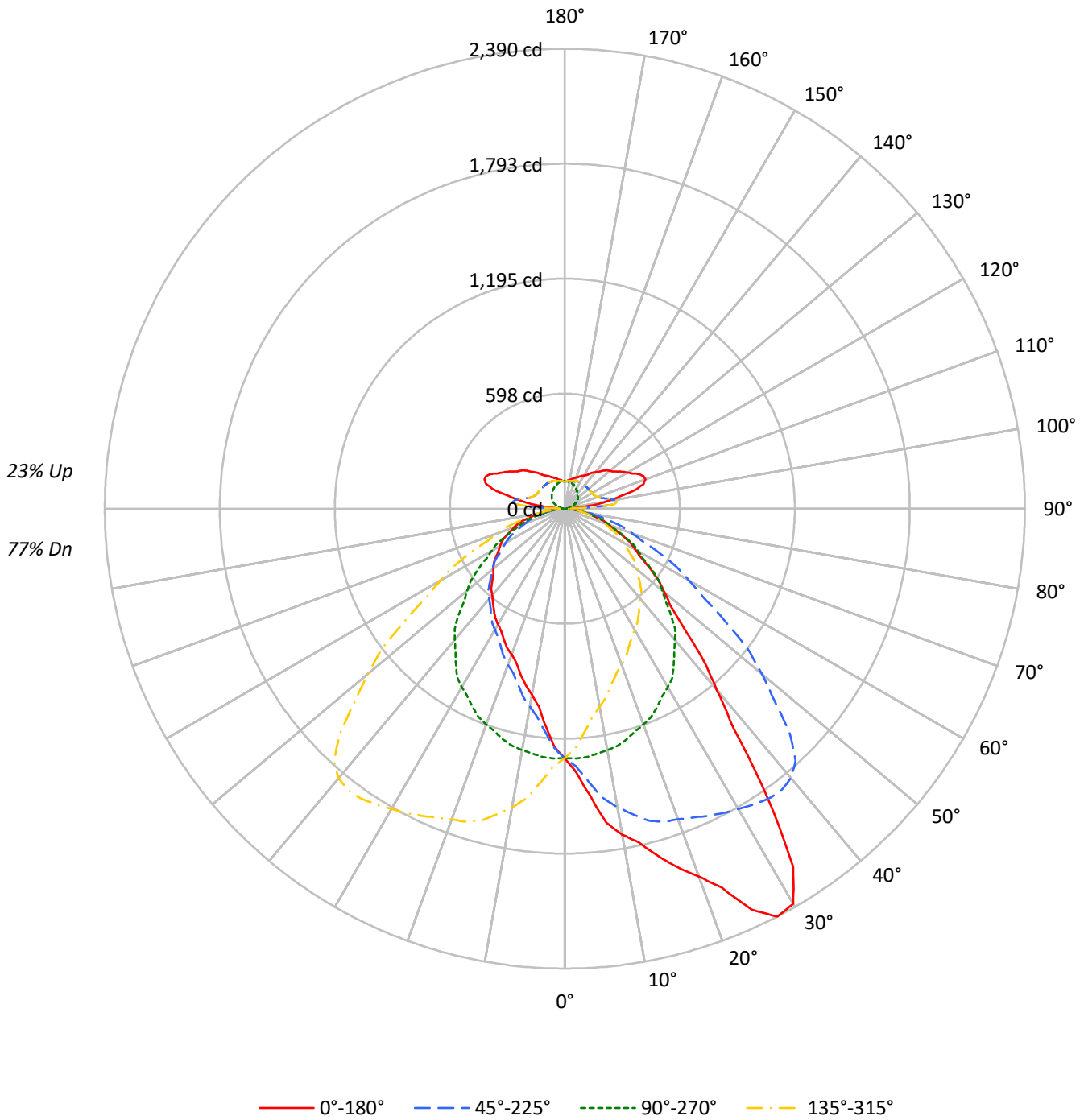
Lumens per Lamp: N/A  
Luminaire Lumens: 4731.0 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 43.5  
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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81	77
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	71	69	66
2	95	88	81	76	91	84	78	74	77	72	68	70	67	64	64	61	59	56
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	54	51	47
4	80	69	61	54	76	66	59	53	61	55	50	56	51	47	51	47	44	41
5	74	62	53	47	70	59	51	46	54	48	43	50	45	41	46	42	38	36
6	68	55	47	41	65	53	46	40	49	43	38	46	40	36	42	37	34	31
7	63	50	42	36	60	48	41	35	45	38	34	41	36	32	38	34	30	28
8	59	46	38	32	56	44	37	31	41	35	30	38	32	28	35	31	27	25
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	24	22
10	51	39	31	26	49	37	30	25	35	29	24	32	27	23	30	26	22	20

**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	2.6
10°-20°	371.6	7.9
20°-30°	603.4	12.8
30°-40°	736.0	15.6
40°-50°	669.6	14.2
50°-60°	533.4	11.3
60°-70°	371.5	7.9
70°-80°	198.1	4.2
80°-90°	50.8	1.1
90°-100°	103.6	2.2
100°-110°	222.7	4.7
110°-120°	209.0	4.4
120°-130°	169.4	3.6
130°-140°	135.9	2.9
140°-150°	102.6	2.2
150°-160°	72.2	1.5
160°-170°	42.6	0.9
170°-180°	13.8	0.3
0°-30°	1099.8	23.2
0°-40°	1835.9	38.8
0°-60°	3038.8	64.2
0°-90°	3659.2	77.3
90°-120°	535.3	11.3
90°-150°	943.1	19.9
90°-180°	1072.0	22.7
0°-180°	4731.0	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°	7	0	7	0	7	6
95°	68	10	68	10	68	96
105°	382	32	382	32	382	380
115°	425	58	425	58	425	416
125°	335	81	335	81	335	303
135°	278	94	278	94	278	216
145°	220	110	220	110	220	140
155°	184	126	184	126	184	86
165°	161	137	161	137	161	46
175°	145	143	145	143	145	14
180°	143	143	143	143	143	



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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°	11.9	12.8	13.1	13.1	13.6	13.5	15.2	15.2	16.4	17.6	19.3
90°	6.6	6.6	6.4	6.4	6.4	5.8	5.5	5.2	4.9	4.6	4.0
92.5°	18.3	18.8	19.2	20.0	23.6	27.9	37.0	51.0	75.2	92.9	94.4
95°	67.8	72.3	74.6	83.2	103.7	127.9	163.4	207.2	249.8	255.3	208.3
97.5°	163.6	167.4	175.7	191.8	209.6	243.3	277.9	308.5	316.1	272.6	186.1
100°	224.8	229.3	240.0	260.7	280.6	310.6	340.3	354.4	332.2	260.2	166.0
102.5°	293.0	296.4	308.0	322.8	344.1	364.4	378.5	369.8	322.5	238.3	150.7
105°	381.8	385.2	391.0	400.5	409.8	412.9	400.2	360.8	291.6	208.9	136.0
107.5°	428.9	431.2	433.2	433.2	428.5	413.4	380.9	328.2	260.0	188.7	129.8
110°	444.6	444.6	442.5	437.1	424.1	399.7	359.1	304.3	242.1	179.2	127.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	442.8	440.7	435.7	426.2	407.3	378.5	337.4	285.4	228.7	173.7	127.9
115°	425.3	421.5	413.4	399.7	377.2	345.8	306.3	261.6	214.1	167.7	128.8
117.5°	394.7	392.4	384.4	370.1	347.6	318.8	284.8	246.3	205.4	164.8	130.7
120°	374.9	372.6	364.8	351.0	329.6	304.3	272.6	238.0	200.6	163.4	132.6
122.5°	357.3	355.3	347.5	334.8	315.8	292.0	263.8	231.8	196.4	162.2	134.1
125°	335.1	332.2	325.9	314.1	297.9	277.2	252.1	222.7	190.8	160.8	136.9
127.5°	316.1	314.8	308.8	298.4	283.7	264.3	240.9	213.5	185.6	160.1	139.9
130°	305.7	304.0	298.2	288.7	274.3	255.6	233.1	207.7	182.1	159.6	141.8
132.5°	295.3	293.3	288.0	278.6	264.2	246.1	225.8	201.9	179.4	159.6	143.8
135°	278.3	276.6	271.4	262.0	249.2	232.8	214.3	194.5	176.0	159.6	146.7
137.5°	260.2	258.3	253.5	244.8	233.5	219.6	204.2	188.2	173.1	160.0	149.3
140°	247.5	246.1	241.7	234.2	223.6	211.5	198.2	184.7	171.7	160.2	150.4
142.5°	235.8	234.6	230.5	224.1	215.1	204.6	193.1	181.7	170.6	160.5	151.1
145°	219.6	218.4	215.2	210.3	203.4	195.7	186.7	177.8	168.8	160.2	151.8
147.5°	205.9	205.3	203.5	199.6	194.1	188.3	181.3	174.1	167.1	159.5	152.1
150°	198.2	198.0	196.8	193.3	189.0	183.8	178.4	172.0	165.7	158.7	152.1
152.5°	192.2	191.9	190.8	188.0	184.4	180.3	175.4	169.7	164.0	157.8	151.9
155°	184.1	183.8	183.0	180.9	178.1	174.9	170.9	166.2	161.3	156.2	151.2
157.5°	176.8	176.9	176.1	174.5	172.2	169.7	166.6	162.8	158.8	154.4	150.5
160°	172.0	172.3	171.7	170.3	168.3	166.2	163.4	160.5	156.8	153.3	149.9
162.5°	167.6	167.7	167.5	166.4	164.9	163.1	160.6	157.9	154.9	151.9	149.1
165°	161.3	161.3	161.3	160.8	159.6	158.2	156.5	154.4	152.1	149.9	148.1
167.5°	155.6	155.6	155.9	155.4	154.8	153.8	152.5	151.1	149.4	147.8	146.5
170°	152.1	152.5	152.5	152.1	151.6	151.0	150.1	149.3	147.8	146.7	145.8
172.5°	148.9	149.2	149.7	149.1	149.0	148.7	148.1	147.2	146.2	145.3	144.9
175°	145.0	145.2	145.8	145.5	145.5	145.5	145.0	145.0	144.1	143.8	143.8
177.5°	142.9	142.9	143.6	143.4	143.6	143.6	143.6	143.4	143.2	142.9	142.9
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



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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°	20.1	19.2	17.3	15.9	13.5	12.1	11.6	11.9	10.7	10.4	10.9
90°	3.8	3.2	2.9	2.3	1.7	1.1	0.6	0.3	0.6	1.1	1.7
92.5°	65.7	39.4	23.6	15.2	10.3	6.7	4.2	3.5	4.2	6.7	10.3
95°	128.8	65.4	34.6	21.6	15.2	12.1	9.8	9.5	9.8	12.1	15.2
97.5°	102.8	56.3	36.0	26.7	21.0	17.8	16.1	15.8	16.1	17.8	21.0
100°	93.4	55.9	39.2	30.6	25.0	21.9	20.7	20.1	20.7	21.9	25.0
102.5°	89.4	58.0	43.1	34.7	29.7	26.3	25.4	25.0	25.4	26.3	29.7
105°	87.9	62.2	49.6	41.5	36.9	34.0	32.5	32.5	32.5	34.0	36.9
107.5°	90.5	68.6	56.3	49.1	44.3	41.9	40.5	39.9	40.5	41.9	44.3
110°	93.1	73.2	61.4	53.9	49.6	47.0	45.8	45.2	45.8	47.0	49.6





TEST NUMBER: P333252-930

CATALOG NUMBER: S125DIP-S1090D365U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	96.3	77.5	66.2	58.9	54.6	52.0	51.1	50.5	51.1	52.0	54.6
115°	101.1	84.5	73.8	66.5	62.2	59.7	58.8	58.2	58.8	59.7	62.2
117.5°	106.6	91.5	81.4	74.4	69.5	66.9	66.0	65.1	66.0	66.9	69.5
120°	110.4	96.5	86.4	79.2	74.4	71.7	70.6	69.7	70.6	71.7	74.4
122.5°	114.5	101.3	91.3	84.1	78.8	76.1	75.2	74.6	75.2	76.1	78.8
125°	120.2	107.8	98.2	90.7	85.3	82.7	81.3	80.7	81.3	82.7	85.3
127.5°	125.3	113.9	104.8	97.3	91.5	88.1	86.3	85.4	86.3	88.1	91.5
130°	128.8	117.8	108.9	101.4	95.4	91.6	89.4	88.5	89.4	91.6	95.4
132.5°	131.8	121.6	112.6	105.1	98.8	94.7	91.9	90.7	91.9	94.7	98.8
135°	136.0	126.5	117.6	109.8	103.7	99.1	95.6	94.5	95.6	99.1	103.7
137.5°	139.1	130.0	121.9	113.9	107.9	103.3	100.1	99.2	100.1	103.3	107.9
140°	141.2	132.6	124.2	116.4	111.0	106.3	102.9	102.0	102.9	106.3	111.0
142.5°	142.4	134.1	126.3	119.0	113.7	109.1	105.8	105.3	105.8	109.1	113.7
145°	144.1	136.9	129.4	122.8	117.6	113.5	110.6	110.1	110.6	113.5	117.6
147.5°	145.1	138.6	132.0	126.2	121.7	118.0	115.4	115.1	115.4	118.0	121.7
150°	145.8	139.7	133.4	128.5	124.5	120.7	118.7	118.1	118.7	120.7	124.5
152.5°	146.3	140.9	135.0	130.6	126.8	123.5	121.7	121.4	121.7	123.5	126.8
155°	146.7	142.0	137.1	133.1	130.2	127.3	125.6	125.6	125.6	127.3	130.2
157.5°	146.9	143.0	138.8	135.7	133.2	130.8	129.4	129.5	129.4	130.8	133.2
160°	146.9	143.5	139.7	137.1	134.9	132.8	131.7	132.0	131.7	132.8	134.9
162.5°	146.8	144.0	140.6	138.5	136.7	134.9	133.8	134.0	133.8	134.9	136.7
165°	146.3	144.1	141.8	140.1	138.8	137.5	136.6	137.1	136.6	137.5	138.8
167.5°	145.7	144.1	142.2	141.0	140.2	139.5	138.9	139.3	138.9	139.5	140.2
170°	145.2	144.1	142.6	141.8	141.2	140.6	140.3	140.6	140.3	140.6	141.2
172.5°	144.8	143.8	142.6	142.2	141.9	141.3	141.0	141.5	141.0	141.3	141.9
175°	144.1	143.5	142.6	142.6	142.6	142.4	142.0	142.6	142.0	142.4	142.6
177.5°	143.4	143.2	142.7	142.7	142.9	142.7	142.7	143.2	142.7	142.7	142.9
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



TEST NUMBER: P333252-930

CATALOG NUMBER: S125DIP-S1090D365U930-4F0-1E-UDD-A4

**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°	11.5	12.5	12.1	12.6	12.7	13.7	13.3	15.2	16.1	17.0	16.7
90°	2.3	2.9	3.2	3.8	4.0	4.6	4.9	5.2	5.5	5.8	6.4
92.5°	15.2	23.6	39.4	65.7	94.4	92.9	75.2	51.0	37.0	27.9	23.6
95°	21.6	34.6	65.4	128.8	208.3	255.3	249.8	207.2	163.4	127.9	103.7
97.5°	26.7	36.0	56.3	102.8	186.1	272.6	316.1	308.5	277.9	243.3	209.6
100°	30.6	39.2	55.9	93.4	166.0	260.2	332.2	354.4	340.3	310.6	280.6
102.5°	34.7	43.1	58.0	89.4	150.7	238.3	322.5	369.8	378.5	364.4	344.1
105°	41.5	49.6	62.2	87.9	136.0	208.9	291.6	360.8	400.2	412.9	409.8
107.5°	49.1	56.3	68.6	90.5	129.8	188.7	260.0	328.2	380.9	413.4	428.5
110°	53.9	61.4	73.2	93.1	127.9	179.2	242.1	304.3	359.1	399.7	424.1



TEST NUMBER: P333252-930

CATALOG NUMBER: S125DIP-S1090D365U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	58.9	66.2	77.5	96.3	127.9	173.7	228.7	285.4	337.4	378.5	407.3
115°	66.5	73.8	84.5	101.1	128.8	167.7	214.1	261.6	306.3	345.8	377.2
117.5°	74.4	81.4	91.5	106.6	130.7	164.8	205.4	246.3	284.8	318.8	347.6
120°	79.2	86.4	96.5	110.4	132.6	163.4	200.6	238.0	272.6	304.3	329.6
122.5°	84.1	91.3	101.3	114.5	134.1	162.2	196.4	231.8	263.8	292.0	315.8
125°	90.7	98.2	107.8	120.2	136.9	160.8	190.8	222.7	252.1	277.2	297.9
127.5°	97.3	104.8	113.9	125.3	139.9	160.1	185.6	213.5	240.9	264.3	283.7
130°	101.4	108.9	117.8	128.8	141.8	159.6	182.1	207.7	233.1	255.6	274.3
132.5°	105.1	112.6	121.6	131.8	143.8	159.6	179.4	201.9	225.8	246.1	264.2
135°	109.8	117.6	126.5	136.0	146.7	159.6	176.0	194.5	214.3	232.8	249.2
137.5°	113.9	121.9	130.0	139.1	149.3	160.0	173.1	188.2	204.2	219.6	233.5
140°	116.4	124.2	132.6	141.2	150.4	160.2	171.7	184.7	198.2	211.5	223.6
142.5°	119.0	126.3	134.1	142.4	151.1	160.5	170.6	181.7	193.1	204.6	215.1
145°	122.8	129.4	136.9	144.1	151.8	160.2	168.8	177.8	186.7	195.7	203.4
147.5°	126.2	132.0	138.6	145.1	152.1	159.5	167.1	174.1	181.3	188.3	194.1
150°	128.5	133.4	139.7	145.8	152.1	158.7	165.7	172.0	178.4	183.8	189.0
152.5°	130.6	135.0	140.9	146.3	151.9	157.8	164.0	169.7	175.4	180.3	184.4
155°	133.1	137.1	142.0	146.7	151.2	156.2	161.3	166.2	170.9	174.9	178.1
157.5°	135.7	138.8	143.0	146.9	150.5	154.4	158.8	162.8	166.6	169.7	172.2
160°	137.1	139.7	143.5	146.9	149.9	153.3	156.8	160.5	163.4	166.2	168.3
162.5°	138.5	140.6	144.0	146.8	149.1	151.9	154.9	157.9	160.6	163.1	164.9
165°	140.1	141.8	144.1	146.3	148.1	149.9	152.1	154.4	156.5	158.2	159.6
167.5°	141.0	142.2	144.1	145.7	146.5	147.8	149.4	151.1	152.5	153.8	154.8
170°	141.8	142.6	144.1	145.2	145.8	146.7	147.8	149.3	150.1	151.0	151.6
172.5°	142.2	142.6	143.8	144.8	144.9	145.3	146.2	147.2	148.1	148.7	149.0
175°	142.6	142.6	143.5	144.1	143.8	143.8	144.1	145.0	145.0	145.5	145.5
177.5°	142.7	142.7	143.2	143.4	142.9	142.9	143.2	143.4	143.6	143.6	143.6
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



TEST NUMBER: P333252-930  
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**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°	17.5	17.1	17.2	18.0	17.2	17.1	17.5	16.7	17.0	16.1	15.2
90°	6.4	6.4	6.6	6.6	6.6	6.4	6.4	6.4	5.8	5.5	5.2
92.5°	20.0	19.2	18.8	18.3	18.8	19.2	20.0	23.6	27.9	37.0	51.0
95°	83.2	74.6	72.3	67.8	72.3	74.6	83.2	103.7	127.9	163.4	207.2
97.5°	191.8	175.7	167.4	163.6	167.4	175.7	191.8	209.6	243.3	277.9	308.5
100°	260.7	240.0	229.3	224.8	229.3	240.0	260.7	280.6	310.6	340.3	354.4
102.5°	322.8	308.0	296.4	293.0	296.4	308.0	322.8	344.1	364.4	378.5	369.8
105°	400.5	391.0	385.2	381.8	385.2	391.0	400.5	409.8	412.9	400.2	360.8
107.5°	433.2	433.2	431.2	428.9	431.2	433.2	433.2	428.5	413.4	380.9	328.2
110°	437.1	442.5	444.6	444.6	444.6	442.5	437.1	424.1	399.7	359.1	304.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	426.2	435.7	440.7	442.8	440.7	435.7	426.2	407.3	378.5	337.4	285.4
115°	399.7	413.4	421.5	425.3	421.5	413.4	399.7	377.2	345.8	306.3	261.6
117.5°	370.1	384.4	392.4	394.7	392.4	384.4	370.1	347.6	318.8	284.8	246.3
120°	351.0	364.8	372.6	374.9	372.6	364.8	351.0	329.6	304.3	272.6	238.0
122.5°	334.8	347.5	355.3	357.3	355.3	347.5	334.8	315.8	292.0	263.8	231.8
125°	314.1	325.9	332.2	335.1	332.2	325.9	314.1	297.9	277.2	252.1	222.7
127.5°	298.4	308.8	314.8	316.1	314.8	308.8	298.4	283.7	264.3	240.9	213.5
130°	288.7	298.2	304.0	305.7	304.0	298.2	288.7	274.3	255.6	233.1	207.7
132.5°	278.6	288.0	293.3	295.3	293.3	288.0	278.6	264.2	246.1	225.8	201.9
135°	262.0	271.4	276.6	278.3	276.6	271.4	262.0	249.2	232.8	214.3	194.5
137.5°	244.8	253.5	258.3	260.2	258.3	253.5	244.8	233.5	219.6	204.2	188.2
140°	234.2	241.7	246.1	247.5	246.1	241.7	234.2	223.6	211.5	198.2	184.7
142.5°	224.1	230.5	234.6	235.8	234.6	230.5	224.1	215.1	204.6	193.1	181.7
145°	210.3	215.2	218.4	219.6	218.4	215.2	210.3	203.4	195.7	186.7	177.8
147.5°	199.6	203.5	205.3	205.9	205.3	203.5	199.6	194.1	188.3	181.3	174.1
150°	193.3	196.8	198.0	198.2	198.0	196.8	193.3	189.0	183.8	178.4	172.0
152.5°	188.0	190.8	191.9	192.2	191.9	190.8	188.0	184.4	180.3	175.4	169.7
155°	180.9	183.0	183.8	184.1	183.8	183.0	180.9	178.1	174.9	170.9	166.2
157.5°	174.5	176.1	176.9	176.8	176.9	176.1	174.5	172.2	169.7	166.6	162.8
160°	170.3	171.7	172.3	172.0	172.3	171.7	170.3	168.3	166.2	163.4	160.5
162.5°	166.4	167.5	167.7	167.6	167.7	167.5	166.4	164.9	163.1	160.6	157.9
165°	160.8	161.3	161.3	161.3	161.3	161.3	160.8	159.6	158.2	156.5	154.4
167.5°	155.4	155.9	155.6	155.6	155.6	155.9	155.4	154.8	153.8	152.5	151.1
170°	152.1	152.5	152.5	152.1	152.5	152.5	152.1	151.6	151.0	150.1	149.3
172.5°	149.1	149.7	149.2	148.9	149.2	149.7	149.1	149.0	148.7	148.1	147.2
175°	145.5	145.8	145.2	145.0	145.2	145.8	145.5	145.5	145.5	145.0	145.0
177.5°	143.4	143.6	142.9	142.9	142.9	143.6	143.4	143.6	143.6	143.6	143.4
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



TEST NUMBER: P333252-930

CATALOG NUMBER: S125DIP-S1090D365U930-4F0-1E-UDD-A4

**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°	13.3	13.7	12.7	12.6	12.1	12.5	11.5	10.9	10.4	10.7	11.9
90°	4.9	4.6	4.0	3.8	3.2	2.9	2.3	1.7	1.1	0.6	0.3
92.5°	75.2	92.9	94.4	65.7	39.4	23.6	15.2	10.3	6.7	4.2	3.5
95°	249.8	255.3	208.3	128.8	65.4	34.6	21.6	15.2	12.1	9.8	9.5
97.5°	316.1	272.6	186.1	102.8	56.3	36.0	26.7	21.0	17.8	16.1	15.8
100°	332.2	260.2	166.0	93.4	55.9	39.2	30.6	25.0	21.9	20.7	20.1
102.5°	322.5	238.3	150.7	89.4	58.0	43.1	34.7	29.7	26.3	25.4	25.0
105°	291.6	208.9	136.0	87.9	62.2	49.6	41.5	36.9	34.0	32.5	32.5
107.5°	260.0	188.7	129.8	90.5	68.6	56.3	49.1	44.3	41.9	40.5	39.9
110°	242.1	179.2	127.9	93.1	73.2	61.4	53.9	49.6	47.0	45.8	45.2



TEST NUMBER: P333252-930

CATALOG NUMBER: S125DIP-S1090D365U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	228.7	173.7	127.9	96.3	77.5	66.2	58.9	54.6	52.0	51.1	50.5
115°	214.1	167.7	128.8	101.1	84.5	73.8	66.5	62.2	59.7	58.8	58.2
117.5°	205.4	164.8	130.7	106.6	91.5	81.4	74.4	69.5	66.9	66.0	65.1
120°	200.6	163.4	132.6	110.4	96.5	86.4	79.2	74.4	71.7	70.6	69.7
122.5°	196.4	162.2	134.1	114.5	101.3	91.3	84.1	78.8	76.1	75.2	74.6
125°	190.8	160.8	136.9	120.2	107.8	98.2	90.7	85.3	82.7	81.3	80.7
127.5°	185.6	160.1	139.9	125.3	113.9	104.8	97.3	91.5	88.1	86.3	85.4
130°	182.1	159.6	141.8	128.8	117.8	108.9	101.4	95.4	91.6	89.4	88.5
132.5°	179.4	159.6	143.8	131.8	121.6	112.6	105.1	98.8	94.7	91.9	90.7
135°	176.0	159.6	146.7	136.0	126.5	117.6	109.8	103.7	99.1	95.6	94.5
137.5°	173.1	160.0	149.3	139.1	130.0	121.9	113.9	107.9	103.3	100.1	99.2
140°	171.7	160.2	150.4	141.2	132.6	124.2	116.4	111.0	106.3	102.9	102.0
142.5°	170.6	160.5	151.1	142.4	134.1	126.3	119.0	113.7	109.1	105.8	105.3
145°	168.8	160.2	151.8	144.1	136.9	129.4	122.8	117.6	113.5	110.6	110.1
147.5°	167.1	159.5	152.1	145.1	138.6	132.0	126.2	121.7	118.0	115.4	115.1
150°	165.7	158.7	152.1	145.8	139.7	133.4	128.5	124.5	120.7	118.7	118.1
152.5°	164.0	157.8	151.9	146.3	140.9	135.0	130.6	126.8	123.5	121.7	121.4
155°	161.3	156.2	151.2	146.7	142.0	137.1	133.1	130.2	127.3	125.6	125.6
157.5°	158.8	154.4	150.5	146.9	143.0	138.8	135.7	133.2	130.8	129.4	129.5
160°	156.8	153.3	149.9	146.9	143.5	139.7	137.1	134.9	132.8	131.7	132.0
162.5°	154.9	151.9	149.1	146.8	144.0	140.6	138.5	136.7	134.9	133.8	134.0
165°	152.1	149.9	148.1	146.3	144.1	141.8	140.1	138.8	137.5	136.6	137.1
167.5°	149.4	147.8	146.5	145.7	144.1	142.2	141.0	140.2	139.5	138.9	139.3
170°	147.8	146.7	145.8	145.2	144.1	142.6	141.8	141.2	140.6	140.3	140.6
172.5°	146.2	145.3	144.9	144.8	143.8	142.6	142.2	141.9	141.3	141.0	141.5
175°	144.1	143.8	143.8	144.1	143.5	142.6	142.6	142.6	142.4	142.0	142.6
177.5°	143.2	142.9	142.9	143.4	143.2	142.7	142.7	142.9	142.7	142.7	143.2
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



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**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°	11.6	12.1	13.5	15.9	17.3	19.2	20.1	19.3	17.6	16.4	15.2
90°	0.6	1.1	1.7	2.3	2.9	3.2	3.8	4.0	4.6	4.9	5.2
92.5°	4.2	6.7	10.3	15.2	23.6	39.4	65.7	94.4	92.9	75.2	51.0
95°	9.8	12.1	15.2	21.6	34.6	65.4	128.8	208.3	255.3	249.8	207.2
97.5°	16.1	17.8	21.0	26.7	36.0	56.3	102.8	186.1	272.6	316.1	308.5
100°	20.7	21.9	25.0	30.6	39.2	55.9	93.4	166.0	260.2	332.2	354.4
102.5°	25.4	26.3	29.7	34.7	43.1	58.0	89.4	150.7	238.3	322.5	369.8
105°	32.5	34.0	36.9	41.5	49.6	62.2	87.9	136.0	208.9	291.6	360.8
107.5°	40.5	41.9	44.3	49.1	56.3	68.6	90.5	129.8	188.7	260.0	328.2
110°	45.8	47.0	49.6	53.9	61.4	73.2	93.1	127.9	179.2	242.1	304.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	51.1	52.0	54.6	58.9	66.2	77.5	96.3	127.9	173.7	228.7	285.4
115°	58.8	59.7	62.2	66.5	73.8	84.5	101.1	128.8	167.7	214.1	261.6
117.5°	66.0	66.9	69.5	74.4	81.4	91.5	106.6	130.7	164.8	205.4	246.3
120°	70.6	71.7	74.4	79.2	86.4	96.5	110.4	132.6	163.4	200.6	238.0
122.5°	75.2	76.1	78.8	84.1	91.3	101.3	114.5	134.1	162.2	196.4	231.8
125°	81.3	82.7	85.3	90.7	98.2	107.8	120.2	136.9	160.8	190.8	222.7
127.5°	86.3	88.1	91.5	97.3	104.8	113.9	125.3	139.9	160.1	185.6	213.5
130°	89.4	91.6	95.4	101.4	108.9	117.8	128.8	141.8	159.6	182.1	207.7
132.5°	91.9	94.7	98.8	105.1	112.6	121.6	131.8	143.8	159.6	179.4	201.9
135°	95.6	99.1	103.7	109.8	117.6	126.5	136.0	146.7	159.6	176.0	194.5
137.5°	100.1	103.3	107.9	113.9	121.9	130.0	139.1	149.3	160.0	173.1	188.2
140°	102.9	106.3	111.0	116.4	124.2	132.6	141.2	150.4	160.2	171.7	184.7
142.5°	105.8	109.1	113.7	119.0	126.3	134.1	142.4	151.1	160.5	170.6	181.7
145°	110.6	113.5	117.6	122.8	129.4	136.9	144.1	151.8	160.2	168.8	177.8
147.5°	115.4	118.0	121.7	126.2	132.0	138.6	145.1	152.1	159.5	167.1	174.1
150°	118.7	120.7	124.5	128.5	133.4	139.7	145.8	152.1	158.7	165.7	172.0
152.5°	121.7	123.5	126.8	130.6	135.0	140.9	146.3	151.9	157.8	164.0	169.7
155°	125.6	127.3	130.2	133.1	137.1	142.0	146.7	151.2	156.2	161.3	166.2
157.5°	129.4	130.8	133.2	135.7	138.8	143.0	146.9	150.5	154.4	158.8	162.8
160°	131.7	132.8	134.9	137.1	139.7	143.5	146.9	149.9	153.3	156.8	160.5
162.5°	133.8	134.9	136.7	138.5	140.6	144.0	146.8	149.1	151.9	154.9	157.9
165°	136.6	137.5	138.8	140.1	141.8	144.1	146.3	148.1	149.9	152.1	154.4
167.5°	138.9	139.5	140.2	141.0	142.2	144.1	145.7	146.5	147.8	149.4	151.1
170°	140.3	140.6	141.2	141.8	142.6	144.1	145.2	145.8	146.7	147.8	149.3
172.5°	141.0	141.3	141.9	142.2	142.6	143.8	144.8	144.9	145.3	146.2	147.2
175°	142.0	142.4	142.6	142.6	142.6	143.5	144.1	143.8	143.8	144.1	145.0
177.5°	142.7	142.7	142.9	142.7	142.7	143.2	143.4	142.9	142.9	143.2	143.4
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



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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°	15.2	13.5	13.6	13.1	13.1	12.8	11.9
90°	5.5	5.8	6.4	6.4	6.4	6.6	6.6
92.5°	37.0	27.9	23.6	20.0	19.2	18.8	18.3
95°	163.4	127.9	103.7	83.2	74.6	72.3	67.8
97.5°	277.9	243.3	209.6	191.8	175.7	167.4	163.6
100°	340.3	310.6	280.6	260.7	240.0	229.3	224.8
102.5°	378.5	364.4	344.1	322.8	308.0	296.4	293.0
105°	400.2	412.9	409.8	400.5	391.0	385.2	381.8
107.5°	380.9	413.4	428.5	433.2	433.2	431.2	428.9
110°	359.1	399.7	424.1	437.1	442.5	444.6	444.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	337.4	378.5	407.3	426.2	435.7	440.7	442.8
115°	306.3	345.8	377.2	399.7	413.4	421.5	425.3
117.5°	284.8	318.8	347.6	370.1	384.4	392.4	394.7
120°	272.6	304.3	329.6	351.0	364.8	372.6	374.9
122.5°	263.8	292.0	315.8	334.8	347.5	355.3	357.3
125°	252.1	277.2	297.9	314.1	325.9	332.2	335.1
127.5°	240.9	264.3	283.7	298.4	308.8	314.8	316.1
130°	233.1	255.6	274.3	288.7	298.2	304.0	305.7
132.5°	225.8	246.1	264.2	278.6	288.0	293.3	295.3
135°	214.3	232.8	249.2	262.0	271.4	276.6	278.3
137.5°	204.2	219.6	233.5	244.8	253.5	258.3	260.2
140°	198.2	211.5	223.6	234.2	241.7	246.1	247.5
142.5°	193.1	204.6	215.1	224.1	230.5	234.6	235.8
145°	186.7	195.7	203.4	210.3	215.2	218.4	219.6
147.5°	181.3	188.3	194.1	199.6	203.5	205.3	205.9
150°	178.4	183.8	189.0	193.3	196.8	198.0	198.2
152.5°	175.4	180.3	184.4	188.0	190.8	191.9	192.2
155°	170.9	174.9	178.1	180.9	183.0	183.8	184.1
157.5°	166.6	169.7	172.2	174.5	176.1	176.9	176.8
160°	163.4	166.2	168.3	170.3	171.7	172.3	172.0
162.5°	160.6	163.1	164.9	166.4	167.5	167.7	167.6
165°	156.5	158.2	159.6	160.8	161.3	161.3	161.3
167.5°	152.5	153.8	154.8	155.4	155.9	155.6	155.6
170°	150.1	151.0	151.6	152.1	152.5	152.5	152.1
172.5°	148.1	148.7	149.0	149.1	149.7	149.2	148.9
175°	145.0	145.5	145.5	145.5	145.8	145.2	145.0
177.5°	143.6	143.6	143.6	143.4	143.6	142.9	142.9
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9

(END OF REPORT)