

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: P332047-927

Luminaire Tested: **S123DIP-S1165D365U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332047-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1165D365U927-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

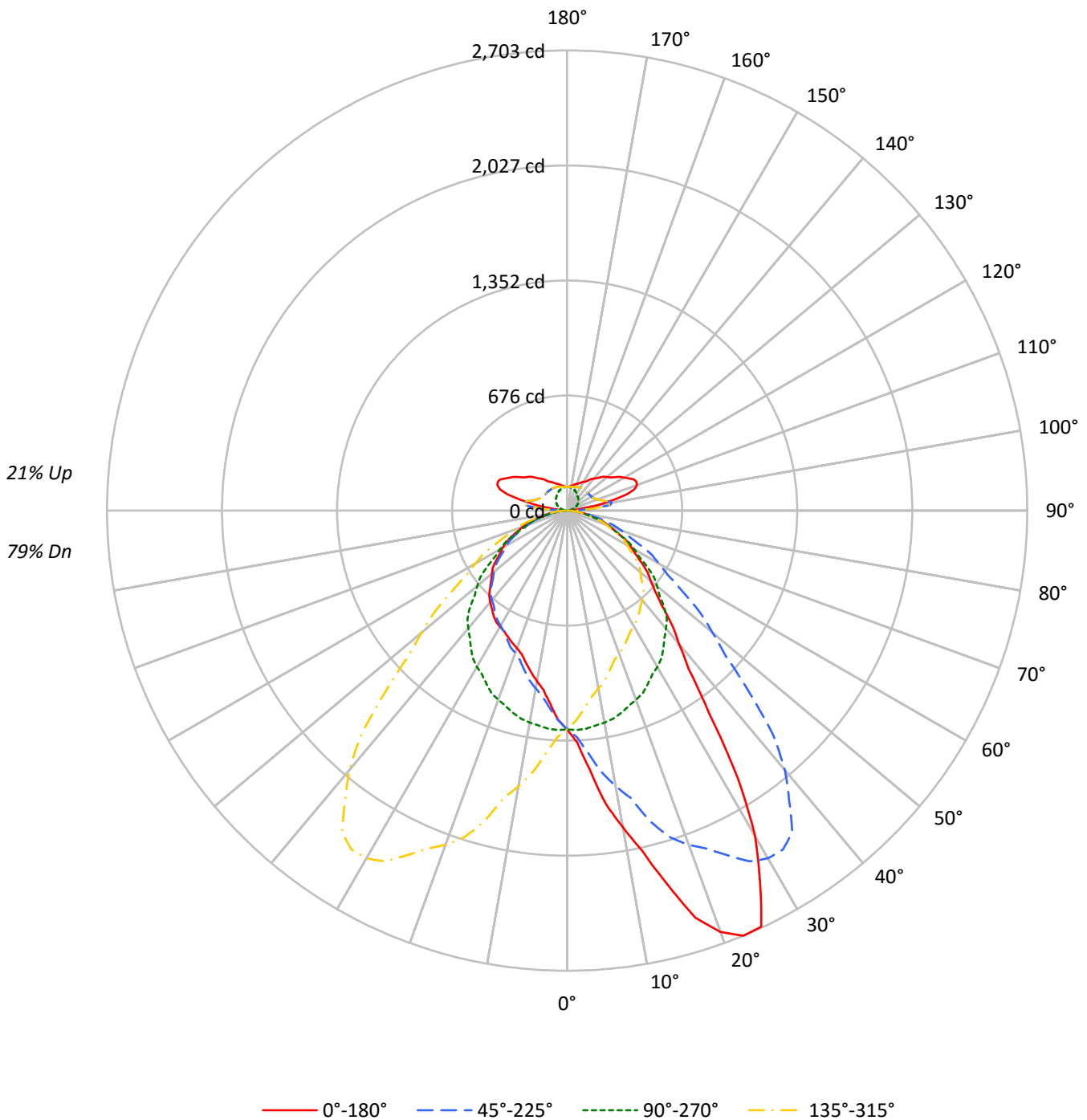
Lumens per Lamp: N/A  
Luminaire Lumens: 4920.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (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	0
RCR																		
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	105	100	96	93	100	96	93	89	88	85	83	81	79	77	74	72	71	67
2	96	88	82	77	91	85	79	74	78	73	69	71	68	65	65	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	63	59	55	58	55	52	49
4	80	69	61	55	77	67	59	53	61	55	50	57	52	48	52	48	45	42
5	74	62	54	48	71	60	52	46	55	49	44	51	46	42	47	43	39	37
6	68	56	48	42	65	54	46	41	50	43	39	46	41	37	43	38	35	32
7	63	51	42	37	60	49	41	36	46	39	34	42	37	33	39	35	31	29
8	59	46	38	33	56	45	37	32	42	35	31	39	33	29	36	31	28	26
9	55	42	35	29	53	41	34	29	38	32	28	36	30	26	33	29	25	23
10	52	39	32	27	49	38	31	26	35	29	25	33	28	24	31	26	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	13832	13832	13832	13832
5°	16495	13891	12310	13891
10°	20647	13821	11119	13821
15°	25324	13710	10351	13710
20°	30166	13536	9856	13536
25°	32033	13324	9745	13324
30°	27455	13170	9797	13170
35°	19094	12951	9900	12951
40°	14383	12694	9868	12694
45°	11942	12310	9742	12310
50°	10697	11531	9656	11531
55°	10001	10691	9533	10691
60°	9382	9810	9436	9810
65°	8818	8945	9133	8945
70°	8271	7956	8699	7956
75°	7407	6966	7977	6966
80°	6484	5709	6868	5709
85°	5076	4150	4619	4150



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	2.6
10°-20°	405.9	8.3
20°-30°	681.2	13.8
30°-40°	771.4	15.7
40°-50°	691.7	14.1
50°-60°	558.2	11.3
60°-70°	389.0	7.9
70°-80°	204.5	4.2
80°-90°	51.1	1.0
90°-100°	77.0	1.6
100°-110°	217.9	4.4
110°-120°	214.4	4.4
120°-130°	171.0	3.5
130°-140°	134.8	2.7
140°-150°	100.6	2.0
150°-160°	70.1	1.4
160°-170°	41.2	0.8
170°-180°	13.4	0.3
0°-30°	1213.7	24.7
0°-40°	1985.1	40.3
0°-60°	3235.0	65.8
0°-90°	3879.6	78.9
90°-120°	509.3	10.4
90°-150°	915.7	18.6
90°-180°	1040.0	21.1
0°-180°	4920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1285	1285	1285	1285	1285	
5°	1527	1286	1139	1286	1527	158
15°	2272	1230	929	1230	2272	656
25°	2697	1122	820	1122	2697	1183
35°	1453	986	753	986	1453	944
45°	784	809	640	809	784	621
55°	533	570	508	570	533	478
65°	346	351	359	351	346	345
75°	178	168	192	168	178	191
85°	41	34	37	34	41	49
90°	8	1	8	1	8	6
95°	32	10	32	10	32	59
105°	356	32	356	32	356	351
115°	433	57	433	57	433	421
125°	342	80	342	80	342	309
135°	277	94	277	94	277	215
145°	216	107	216	107	216	138
155°	179	121	179	121	179	84
165°	156	132	156	132	156	45
175°	141	138	141	138	141	14
180°	138	138	138	138	138	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1363.7	1362.7	1360.3	1362.2	1358.3	1352.7	1352.3	1347.3	1332.8	1331.8	1327.9
5°	1526.6	1521.6	1521.0	1520.4	1511.6	1499.8	1477.4	1475.5	1445.7	1430.7	1412.7
7.5°	1737.5	1740.1	1731.1	1723.1	1696.5	1678.9	1654.9	1624.1	1587.4	1550.1	1525.3
10°	1889.0	1909.5	1884.0	1866.5	1850.4	1819.8	1784.4	1740.1	1695.9	1644.3	1605.0
12.5°	2051.4	2061.4	2056.3	2039.9	2014.7	1968.3	1905.4	1856.7	1816.0	1730.0	1695.2
15°	2272.5	2310.5	2286.2	2230.2	2231.3	2187.1	2105.0	2014.7	1966.8	1891.4	1788.7
17.5°	2508.0	2512.8	2502.4	2455.8	2424.6	2363.9	2288.1	2201.5	2104.4	2013.3	1904.2
20°	2633.5	2629.8	2608.0	2583.8	2530.2	2482.9	2400.1	2303.6	2179.1	2089.5	1970.5
22.5°	2703.3	2697.1	2686.8	2666.4	2621.9	2571.0	2496.7	2391.3	2272.7	2149.2	2011.8
25°	2697.1	2705.1	2706.4	2700.8	2685.3	2654.8	2596.2	2512.2	2393.9	2235.1	2091.9
27.5°	2453.0	2464.5	2497.8	2527.2	2560.3	2593.8	2589.3	2547.7	2460.1	2323.0	2147.9
30°	2208.9	2184.0	2245.7	2323.5	2376.5	2469.8	2522.1	2525.2	2476.0	2358.4	2187.8
32.5°	1870.3	1897.7	1924.9	2020.7	2136.4	2241.2	2345.3	2429.1	2438.7	2360.4	2211.2
35°	1453.1	1487.4	1537.2	1587.0	1711.5	1818.6	2001.6	2161.0	2288.1	2304.9	2213.3
37.5°	1171.0	1187.9	1219.4	1269.3	1350.8	1477.8	1619.4	1820.8	2004.9	2141.7	2147.7
40°	1023.6	1028.5	1064.0	1102.0	1168.0	1272.6	1400.2	1578.3	1798.6	1989.8	2069.5
42.5°	913.0	923.9	939.0	975.5	1028.0	1106.8	1225.4	1372.5	1574.5	1794.5	1950.4
45°	784.5	796.9	806.3	830.5	867.9	920.8	1003.6	1138.1	1291.9	1519.1	1728.9
47.5°	699.6	700.5	707.5	725.8	751.2	790.9	849.5	935.9	1077.1	1261.4	1476.8
50°	638.8	648.7	651.3	665.5	685.5	714.7	763.3	836.8	952.6	1114.4	1312.4
52.5°	596.0	599.0	605.9	616.2	633.7	656.5	698.5	756.1	847.0	984.9	1167.0
55°	532.9	532.9	539.8	547.9	557.9	578.4	606.4	648.7	717.9	824.9	975.6
57.5°	474.7	477.8	482.6	485.1	493.6	507.2	530.6	562.7	614.3	696.6	816.5
60°	435.8	441.4	440.8	445.8	453.3	463.8	483.8	509.9	556.0	621.9	722.9
62.5°	402.0	401.6	401.5	407.4	414.9	425.0	437.9	460.6	499.7	558.3	644.1
65°	346.2	344.9	349.3	353.0	355.5	363.0	373.0	392.8	419.0	462.6	529.2
67.5°	296.6	293.0	295.3	296.6	300.9	306.7	316.0	328.4	349.1	384.1	434.4
70°	262.8	259.6	259.0	260.2	264.0	268.3	275.2	287.0	306.3	334.3	371.1
72.5°	227.8	225.8	225.6	228.4	230.1	233.0	237.8	248.7	264.0	285.0	319.2
75°	178.1	178.1	178.1	178.7	180.5	183.1	186.8	192.3	204.2	219.1	242.2
77.5°	133.5	133.3	132.6	132.5	135.2	136.3	137.2	142.4	149.0	159.1	175.9
80°	104.6	101.5	102.7	104.6	105.8	106.5	108.4	109.6	115.2	120.8	132.6
82.5°	77.7	75.1	75.3	78.2	78.4	79.1	81.0	82.7	84.8	89.9	96.3
85°	41.1	41.1	41.7	41.7	42.3	41.7	43.6	44.2	44.2	47.3	51.0
87.5°	16.6	15.6	16.1	16.5	16.1	16.5	16.9	17.3	17.7	18.3	18.7
90°	8.1	8.4	8.1	7.8	8.1	7.5	7.3	7.0	6.7	7.0	6.2
92.5°	13.5	14.0	13.7	14.6	15.1	16.5	18.7	23.6	32.5	43.0	47.4
95°	32.5	33.6	35.6	38.1	43.4	53.5	68.3	100.8	134.7	166.0	147.8
97.5°	88.4	90.8	98.4	111.0	131.7	165.1	201.2	251.2	275.2	257.3	188.4
100°	175.5	175.2	186.2	206.6	234.9	274.6	307.4	330.0	320.3	265.1	179.2
102.5°	257.5	264.0	273.1	289.2	311.2	336.4	355.5	356.2	322.5	250.6	165.7
105°	356.1	357.5	366.5	377.1	390.0	397.2	391.9	363.9	305.4	225.1	149.2
107.5°	412.9	415.4	418.4	422.1	421.8	411.9	387.3	341.8	275.5	202.6	138.7
110°	436.2	436.7	437.3	435.1	427.2	407.6	372.3	320.8	256.7	189.8	134.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	440.8	440.8	438.6	431.7	417.3	392.1	352.6	300.0	240.3	181.3	132.4
115°	433.1	431.7	426.0	413.8	392.8	362.3	321.1	272.4	220.6	172.1	131.6
117.5°	408.3	406.4	398.4	384.3	362.3	331.4	294.5	252.4	208.7	166.8	132.1
120°	387.7	386.0	379.3	363.6	341.5	313.2	279.6	241.9	202.4	164.3	133.0
122.5°	368.4	366.3	358.9	344.8	325.2	298.9	267.8	233.6	197.3	162.8	134.5
125°	341.5	339.6	332.6	320.3	302.4	280.0	253.1	222.5	190.7	160.7	136.9
127.5°	319.3	317.6	311.2	300.7	284.8	264.4	240.1	212.9	184.8	159.7	139.6
130°	306.8	304.6	298.7	288.6	273.8	254.8	232.1	206.8	181.6	159.0	141.4
132.5°	294.5	292.9	287.7	277.7	263.7	245.6	224.4	201.3	178.8	158.8	142.8
135°	276.9	274.9	269.9	261.5	247.7	231.8	213.6	193.7	175.0	158.4	144.7
137.5°	258.3	256.9	252.7	244.2	232.7	218.8	203.1	186.8	171.7	157.8	146.1
140°	245.3	245.5	241.1	233.2	222.5	210.5	197.1	182.8	169.6	157.6	146.9
142.5°	233.1	233.4	229.4	222.4	213.3	202.9	191.2	179.0	167.9	157.2	147.7
145°	216.4	215.9	213.6	207.7	200.7	192.6	183.6	174.4	165.4	156.5	148.1
147.5°	202.6	202.4	200.3	196.3	191.0	185.2	178.0	170.6	163.1	155.4	148.1
150°	194.6	194.6	192.9	189.8	185.6	180.3	174.4	167.9	161.5	154.6	148.1
152.5°	187.8	187.8	186.8	183.9	180.7	176.3	171.0	165.5	159.7	153.4	147.4
155°	179.4	179.2	178.6	176.3	173.8	170.5	166.3	161.8	157.0	151.5	146.7
157.5°	171.7	171.8	171.3	169.7	167.5	164.9	161.6	157.9	154.0	149.7	145.8
160°	166.8	167.2	167.2	165.4	163.5	161.5	158.8	155.7	152.0	148.4	145.3
162.5°	162.4	162.6	162.6	161.2	159.9	158.2	155.6	153.0	150.0	147.0	144.4
165°	156.5	156.5	156.8	155.7	154.6	153.1	151.1	149.5	147.3	145.0	143.1
167.5°	150.9	150.9	151.1	150.4	149.9	148.9	147.7	146.5	144.7	143.0	141.7
170°	147.5	147.5	147.8	147.3	146.9	146.4	145.3	144.4	143.1	141.6	140.9
172.5°	144.4	144.7	145.1	144.6	144.5	144.2	143.3	142.7	141.5	140.5	140.1
175°	140.9	141.1	141.4	141.1	141.1	141.1	140.5	140.2	139.7	139.1	139.1
177.5°	138.7	138.7	139.2	138.9	139.2	139.2	138.9	138.7	138.6	138.3	138.6
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1324.8	1320.9	1316.9	1310.0	1303.9	1295.5	1293.0	1290.0	1281.0	1273.1	1267.1
5°	1405.8	1390.8	1369.0	1349.2	1333.0	1311.2	1298.7	1285.6	1266.9	1250.1	1236.4
7.5°	1490.5	1461.1	1427.2	1390.6	1356.5	1323.7	1297.1	1273.4	1247.3	1222.5	1203.2
10°	1557.7	1515.4	1468.1	1417.1	1373.4	1331.1	1295.6	1264.5	1230.9	1201.6	1177.3
12.5°	1634.4	1571.7	1506.4	1444.4	1392.9	1334.1	1291.1	1251.6	1213.5	1178.2	1151.0
15°	1725.2	1645.5	1568.3	1483.0	1404.5	1331.1	1280.1	1230.3	1186.1	1149.9	1115.1
17.5°	1807.9	1717.6	1615.9	1512.1	1417.5	1330.4	1258.9	1202.6	1147.3	1103.1	1068.3
20°	1854.7	1752.0	1636.8	1529.1	1424.5	1327.4	1249.0	1181.7	1121.9	1075.2	1036.0
22.5°	1895.1	1774.9	1655.7	1540.6	1424.0	1319.4	1230.5	1161.3	1096.5	1050.8	1009.1
25°	1936.9	1793.1	1673.6	1538.4	1408.3	1300.0	1200.4	1121.9	1057.2	1003.6	960.7
27.5°	1972.8	1791.8	1650.0	1504.7	1383.6	1275.1	1168.7	1084.6	1015.8	957.7	914.1
30°	1996.6	1794.3	1625.6	1481.8	1359.8	1247.7	1144.3	1059.6	987.5	928.3	887.2
32.5°	2011.6	1792.8	1603.1	1449.9	1321.9	1222.7	1117.9	1030.2	956.1	897.9	858.3
35°	2020.3	1781.9	1564.6	1384.0	1260.8	1164.3	1076.5	985.6	907.8	853.6	808.7
37.5°	2002.9	1758.8	1519.7	1320.5	1185.6	1090.5	1016.7	939.2	864.7	805.2	766.5
40°	1975.5	1743.9	1484.9	1275.7	1133.8	1042.2	979.4	903.4	829.9	773.2	737.1
42.5°	1923.2	1713.5	1446.5	1225.9	1080.0	988.4	930.5	867.0	797.6	744.3	708.3
45°	1795.6	1647.3	1389.0	1151.2	1000.5	905.9	854.8	808.7	745.8	694.2	663.1
47.5°	1618.5	1547.9	1305.8	1072.4	917.6	826.6	773.5	736.4	690.5	648.7	618.9
50°	1495.5	1466.2	1249.5	1018.6	862.3	773.2	722.2	688.6	655.6	613.9	586.5
52.5°	1353.5	1371.6	1183.8	962.7	806.0	718.5	670.4	643.7	613.8	579.5	555.6
55°	1153.7	1219.0	1070.2	869.1	722.2	638.8	593.3	569.7	552.2	526.7	506.2
57.5°	966.5	1049.7	947.5	772.6	639.9	567.9	524.3	498.6	487.4	474.0	457.9
60°	855.5	937.6	859.8	707.9	584.6	516.1	477.5	455.7	444.5	435.2	421.5
62.5°	756.3	839.5	774.1	642.1	530.3	466.8	433.2	411.9	403.2	398.3	386.7
65°	620.1	691.7	648.1	539.8	452.7	396.6	366.1	351.2	343.0	341.2	333.7
67.5°	504.7	559.2	527.4	447.7	379.1	330.7	304.8	292.2	285.9	285.3	279.6
70°	429.0	480.0	455.7	383.5	324.4	286.4	264.0	252.8	249.1	248.4	245.3
72.5°	370.2	405.8	386.5	326.2	280.5	246.1	229.6	217.9	213.7	214.5	212.5
75°	273.9	300.7	289.5	247.8	211.0	188.6	174.9	167.5	163.7	165.6	163.1
77.5°	197.1	214.0	204.0	175.1	152.4	136.3	126.1	121.5	118.2	118.0	116.9
80°	148.8	158.8	153.1	135.7	117.1	103.4	95.2	92.1	90.3	89.7	89.0
82.5°	106.0	114.5	107.8	95.9	83.2	74.9	70.3	66.2	64.9	65.3	64.6
85°	53.6	56.6	54.2	46.7	41.7	37.9	35.5	33.6	32.4	33.0	31.8
87.5°	19.5	19.8	18.1	16.1	15.0	13.3	13.2	12.0	11.2	11.3	10.9
90°	5.3	4.5	3.6	3.1	2.5	1.7	1.1	0.6	1.1	1.7	2.5
92.5°	35.6	23.5	16.2	12.0	9.7	7.5	5.1	3.5	5.1	7.5	9.7
95°	101.9	60.2	36.4	25.5	18.2	13.5	10.4	9.5	10.4	13.5	18.2
97.5°	111.8	64.8	42.1	30.3	23.1	18.9	16.5	16.2	16.5	18.9	23.1
100°	105.5	64.1	44.5	33.6	26.9	23.0	21.0	20.8	21.0	23.0	26.9
102.5°	100.1	65.0	47.5	37.4	31.4	27.6	25.9	25.4	25.9	27.6	31.4
105°	96.3	67.5	52.4	43.6	38.3	35.0	33.4	32.5	33.4	35.0	38.3
107.5°	96.0	72.1	58.8	50.7	45.7	42.5	40.8	40.0	40.8	42.5	45.7
110°	97.1	75.9	63.3	55.5	50.7	47.6	46.2	45.3	46.2	47.6	50.7





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	99.4	79.7	68.0	60.4	55.6	52.5	51.1	50.3	51.1	52.5	55.6
115°	103.0	86.0	75.3	67.7	63.0	60.2	58.5	57.4	58.5	60.2	63.0
117.5°	107.8	92.6	82.1	75.1	69.8	67.2	65.8	64.5	65.8	67.2	69.8
120°	111.4	96.9	86.7	79.8	74.5	71.7	70.3	69.4	70.3	71.7	74.5
122.5°	114.8	101.3	91.5	84.1	79.0	75.9	74.5	73.7	74.5	75.9	79.0
125°	120.1	107.8	98.0	90.4	85.1	82.0	80.3	79.8	80.3	82.0	85.1
127.5°	124.5	113.4	103.9	96.3	90.5	87.4	85.2	84.4	85.2	87.4	90.5
130°	127.4	116.8	107.5	100.0	94.0	90.7	88.2	87.4	88.2	90.7	94.0
132.5°	130.1	119.6	110.7	103.3	97.4	93.4	90.6	89.6	90.6	93.4	97.4
135°	133.6	124.0	115.3	107.8	101.9	97.7	94.6	93.5	94.6	97.7	101.9
137.5°	136.1	127.1	118.7	111.7	105.8	101.4	98.4	97.2	98.4	101.4	105.8
140°	137.4	129.0	121.0	113.9	108.4	103.9	101.1	99.7	101.1	103.9	108.4
142.5°	138.8	130.6	122.7	116.2	110.6	106.5	103.5	102.3	103.5	106.5	110.6
145°	140.2	132.7	125.4	119.0	114.2	110.0	107.5	106.6	107.5	110.0	114.2
147.5°	141.2	134.4	127.7	122.2	117.6	114.0	111.5	111.1	111.5	114.0	117.6
150°	141.4	135.5	129.0	124.0	120.1	116.5	114.2	113.9	114.2	116.5	120.1
152.5°	141.8	136.2	130.6	125.8	122.3	119.1	116.9	116.8	116.9	119.1	122.3
155°	142.0	137.4	132.7	128.8	125.7	122.9	121.2	121.2	121.2	122.9	125.7
157.5°	142.2	138.2	134.4	131.3	128.7	126.3	124.9	124.7	124.9	126.3	128.7
160°	142.2	138.9	135.5	132.7	130.7	128.5	127.4	127.4	127.4	128.5	130.7
162.5°	142.0	139.1	136.2	133.8	132.1	130.3	129.4	129.4	129.4	130.3	132.1
165°	141.4	139.4	137.2	135.2	134.1	132.7	132.1	132.4	132.1	132.7	134.1
167.5°	140.9	139.3	137.8	136.5	135.7	134.7	134.4	134.7	134.4	134.7	135.7
170°	140.2	139.1	137.8	137.2	136.6	135.8	135.5	136.0	135.5	135.8	136.6
172.5°	140.1	139.1	137.9	137.6	137.3	136.7	136.6	137.0	136.6	136.7	137.3
175°	139.4	138.9	138.3	138.0	138.0	137.4	137.8	138.0	137.8	137.4	138.0
177.5°	138.9	138.6	138.3	138.3	138.3	138.1	138.3	138.6	138.3	138.1	138.3
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



TEST NUMBER: P332047-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1263.6	1260.1	1255.1	1247.7	1241.7	1232.2	1232.2	1233.7	1233.7	1233.3	1232.2
5°	1225.3	1215.9	1204.8	1191.7	1178.0	1164.3	1161.7	1156.7	1153.0	1150.6	1147.5
7.5°	1184.8	1168.2	1151.9	1133.6	1116.9	1103.1	1093.5	1085.5	1080.5	1075.0	1071.0
10°	1157.4	1136.9	1117.5	1098.3	1077.1	1060.3	1049.7	1042.2	1036.6	1031.7	1029.1
12.5°	1125.1	1101.5	1080.2	1061.9	1038.7	1021.4	1011.4	1007.8	1001.2	990.8	985.3
15°	1077.7	1055.9	1030.4	1002.3	991.2	970.0	958.1	952.6	948.8	940.7	938.3
17.5°	1037.2	1008.7	980.1	959.2	938.3	921.1	914.6	907.6	902.6	896.0	894.1
20°	1004.9	979.4	953.2	930.8	908.9	890.3	884.7	879.7	874.7	871.6	869.1
22.5°	972.0	946.5	924.8	903.9	880.6	868.4	862.3	856.8	853.3	851.2	848.7
25°	925.8	903.4	879.1	860.4	841.8	833.6	829.9	826.8	824.3	821.2	820.5
27.5°	884.5	860.1	840.3	822.9	809.5	802.8	799.2	797.6	798.2	799.3	800.0
30°	853.6	831.2	815.0	800.0	787.6	781.3	780.7	780.7	783.2	783.9	785.1
32.5°	825.2	806.8	790.6	776.1	766.7	762.4	764.8	764.8	766.8	768.4	770.6
35°	783.9	767.6	755.2	742.8	734.7	736.5	737.8	739.0	742.1	745.8	748.4
37.5°	744.3	730.3	717.3	707.7	703.9	707.3	710.3	712.9	716.4	719.4	721.8
40°	716.0	705.4	692.9	684.2	685.5	687.4	689.8	692.9	696.1	697.9	700.4
42.5°	689.6	678.5	669.1	661.8	663.5	665.9	667.4	669.1	672.6	676.0	677.5
45°	649.4	640.6	631.9	627.6	628.8	630.1	631.3	633.2	636.3	638.8	639.4
47.5°	604.2	598.1	592.2	588.0	589.9	589.5	591.1	595.1	596.0	597.5	601.0
50°	575.3	569.7	562.8	561.6	561.6	561.6	562.2	567.2	567.2	569.7	572.2
52.5°	543.4	539.8	535.4	533.2	532.2	532.2	534.8	537.3	538.3	541.8	544.3
55°	496.2	492.5	488.7	486.9	485.6	486.9	491.9	493.1	496.2	498.0	499.9
57.5°	447.0	444.2	441.2	440.1	439.9	441.6	444.3	448.0	448.8	454.5	457.3
60°	414.6	410.3	407.8	407.8	406.5	412.2	410.9	417.2	418.4	422.2	426.5
62.5°	381.3	375.4	374.5	374.5	376.2	377.8	379.5	382.3	385.5	390.2	393.6
65°	327.5	324.4	328.8	328.1	326.9	330.6	330.6	333.7	337.5	341.8	348.6
67.5°	276.6	275.0	275.3	275.3	277.2	279.3	281.1	283.8	288.3	292.9	297.4
70°	242.2	244.1	241.0	243.4	245.3	245.9	247.2	250.9	255.9	259.0	264.0
72.5°	208.8	208.7	209.1	210.1	211.9	213.0	214.3	218.6	224.0	226.6	230.6
75°	160.7	160.0	161.8	161.8	165.0	166.2	167.5	169.4	174.4	178.1	181.2
77.5°	117.3	118.0	117.6	119.8	118.9	119.1	123.0	124.9	125.4	132.8	134.4
80°	88.4	89.7	90.3	90.9	91.5	90.3	94.7	96.5	96.5	100.8	103.9
82.5°	63.5	64.2	65.9	66.5	66.6	67.9	68.2	69.6	71.1	73.0	77.1
85°	31.8	33.6	34.2	33.6	34.2	33.0	34.9	35.5	36.1	36.1	36.1
87.5°	10.6	11.2	10.9	11.5	11.2	11.9	11.8	10.9	10.9	12.4	10.6
90°	3.1	3.6	4.5	5.3	6.2	7.0	6.7	7.0	7.3	7.5	8.1
92.5°	12.0	16.2	23.5	35.6	47.4	43.0	32.5	23.6	18.7	16.5	15.1
95°	25.5	36.4	60.2	101.9	147.8	166.0	134.7	100.8	68.3	53.5	43.4
97.5°	30.3	42.1	64.8	111.8	188.4	257.3	275.2	251.2	201.2	165.1	131.7
100°	33.6	44.5	64.1	105.5	179.2	265.1	320.3	330.0	307.4	274.6	234.9
102.5°	37.4	47.5	65.0	100.1	165.7	250.6	322.5	356.2	355.5	336.4	311.2
105°	43.6	52.4	67.5	96.3	149.2	225.1	305.4	363.9	391.9	397.2	390.0
107.5°	50.7	58.8	72.1	96.0	138.7	202.6	275.5	341.8	387.3	411.9	421.8
110°	55.5	63.3	75.9	97.1	134.7	189.8	256.7	320.8	372.3	407.6	427.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	60.4	68.0	79.7	99.4	132.4	181.3	240.3	300.0	352.6	392.1	417.3
115°	67.7	75.3	86.0	103.0	131.6	172.1	220.6	272.4	321.1	362.3	392.8
117.5°	75.1	82.1	92.6	107.8	132.1	166.8	208.7	252.4	294.5	331.4	362.3
120°	79.8	86.7	96.9	111.4	133.0	164.3	202.4	241.9	279.6	313.2	341.5
122.5°	84.1	91.5	101.3	114.8	134.5	162.8	197.3	233.6	267.8	298.9	325.2
125°	90.4	98.0	107.8	120.1	136.9	160.7	190.7	222.5	253.1	280.0	302.4
127.5°	96.3	103.9	113.4	124.5	139.6	159.7	184.8	212.9	240.1	264.4	284.8
130°	100.0	107.5	116.8	127.4	141.4	159.0	181.6	206.8	232.1	254.8	273.8
132.5°	103.3	110.7	119.6	130.1	142.8	158.8	178.8	201.3	224.4	245.6	263.7
135°	107.8	115.3	124.0	133.6	144.7	158.4	175.0	193.7	213.6	231.8	247.7
137.5°	111.7	118.7	127.1	136.1	146.1	157.8	171.7	186.8	203.1	218.8	232.7
140°	113.9	121.0	129.0	137.4	146.9	157.6	169.6	182.8	197.1	210.5	222.5
142.5°	116.2	122.7	130.6	138.8	147.7	157.2	167.9	179.0	191.2	202.9	213.3
145°	119.0	125.4	132.7	140.2	148.1	156.5	165.4	174.4	183.6	192.6	200.7
147.5°	122.2	127.7	134.4	141.2	148.1	155.4	163.1	170.6	178.0	185.2	191.0
150°	124.0	129.0	135.5	141.4	148.1	154.6	161.5	167.9	174.4	180.3	185.6
152.5°	125.8	130.6	136.2	141.8	147.4	153.4	159.7	165.5	171.0	176.3	180.7
155°	128.8	132.7	137.4	142.0	146.7	151.5	157.0	161.8	166.3	170.5	173.8
157.5°	131.3	134.4	138.2	142.2	145.8	149.7	154.0	157.9	161.6	164.9	167.5
160°	132.7	135.5	138.9	142.2	145.3	148.4	152.0	155.7	158.8	161.5	163.5
162.5°	133.8	136.2	139.1	142.0	144.4	147.0	150.0	153.0	155.6	158.2	159.9
165°	135.2	137.2	139.4	141.4	143.1	145.0	147.3	149.5	151.1	153.1	154.6
167.5°	136.5	137.8	139.3	140.9	141.7	143.0	144.7	146.5	147.7	148.9	149.9
170°	137.2	137.8	139.1	140.2	140.9	141.6	143.1	144.4	145.3	146.4	146.9
172.5°	137.6	137.9	139.1	140.1	140.1	140.5	141.5	142.7	143.3	144.2	144.5
175°	138.0	138.3	138.9	139.4	139.1	139.1	139.7	140.2	140.5	141.1	141.1
177.5°	138.3	138.3	138.6	138.9	138.6	138.3	138.6	138.7	138.9	139.2	139.2
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1228.8	1228.3	1231.8	1229.2	1231.8	1228.3	1228.8	1232.2	1233.3	1233.7	1233.7
5°	1143.7	1145.6	1139.3	1139.3	1139.3	1145.6	1143.7	1147.5	1150.6	1153.0	1156.7
7.5°	1068.0	1065.2	1065.5	1062.2	1065.5	1065.2	1068.0	1071.0	1075.0	1080.5	1085.5
10°	1021.7	1018.0	1016.7	1017.3	1016.7	1018.0	1021.7	1029.1	1031.7	1036.6	1042.2
12.5°	983.3	982.5	974.4	974.5	974.4	982.5	983.3	985.3	990.8	1001.2	1007.8
15°	938.3	926.5	925.2	928.9	925.2	926.5	938.3	938.3	940.7	948.8	952.6
17.5°	893.0	886.8	887.2	885.3	887.2	886.8	893.0	894.1	896.0	902.6	907.6
20°	869.1	865.4	864.7	860.4	864.7	865.4	869.1	869.1	871.6	874.7	879.7
22.5°	847.2	846.0	846.4	841.5	846.4	846.0	847.2	848.7	851.2	853.3	856.8
25°	820.0	823.1	820.5	820.5	820.5	823.1	820.0	820.5	821.2	824.3	826.8
27.5°	801.5	801.4	800.2	800.2	800.2	801.4	801.5	800.0	799.3	798.2	797.6
30°	787.6	787.0	788.2	788.2	788.2	787.0	787.6	785.1	783.9	783.2	780.7
32.5°	773.6	774.5	774.8	775.2	774.8	774.5	773.6	770.6	768.4	766.8	764.8
35°	752.1	752.7	754.6	753.4	754.6	752.7	752.1	748.4	745.8	742.1	739.0
37.5°	722.9	725.8	725.2	726.2	725.2	725.8	722.9	721.8	719.4	716.4	712.9
40°	701.0	702.9	702.3	702.3	702.3	702.9	701.0	700.4	697.9	696.1	692.9
42.5°	678.7	680.0	678.3	677.4	678.3	680.0	678.7	677.5	676.0	672.6	669.1
45°	641.9	640.6	642.5	640.0	642.5	640.6	641.9	639.4	638.8	636.3	633.2
47.5°	600.8	602.1	602.5	604.4	602.5	602.1	600.8	601.0	597.5	596.0	595.1
50°	573.4	577.1	577.1	576.6	577.1	577.1	573.4	572.2	569.7	567.2	567.2
52.5°	546.5	548.3	550.7	550.6	550.7	548.3	546.5	544.3	541.8	538.3	537.3
55°	504.9	506.2	507.4	508.0	507.4	506.2	504.9	499.9	498.0	496.2	493.1
57.5°	461.8	461.4	464.3	465.2	464.3	461.4	461.8	457.3	454.5	448.8	448.0
60°	431.4	431.4	436.4	438.3	436.4	431.4	431.4	426.5	422.2	418.4	417.2
62.5°	399.1	401.1	406.1	403.5	406.1	401.1	399.1	393.6	390.2	385.5	382.3
65°	351.7	356.7	356.1	358.6	356.1	356.7	351.7	348.6	341.8	337.5	333.7
67.5°	302.3	305.5	309.9	310.3	309.9	305.5	302.3	297.4	292.9	288.3	283.8
70°	268.9	272.0	274.6	276.4	274.6	272.0	268.9	264.0	259.0	255.9	250.9
72.5°	236.6	238.2	244.2	241.5	244.2	238.2	236.6	230.6	226.6	224.0	218.6
75°	185.5	189.9	193.6	191.8	193.6	189.9	185.5	181.2	178.1	174.4	169.4
77.5°	137.2	141.6	143.3	141.7	143.3	141.6	137.2	134.4	132.8	125.4	124.9
80°	108.4	107.7	111.5	110.8	111.5	107.7	108.4	103.9	100.8	96.5	96.5
82.5°	79.5	78.8	80.6	81.0	80.6	78.8	79.5	77.1	73.0	71.1	69.6
85°	38.6	40.5	37.9	37.4	37.9	40.5	38.6	36.1	36.1	36.1	35.5
87.5°	10.5	10.6	10.1	9.6	10.1	10.6	10.5	10.6	12.4	10.9	10.9
90°	7.8	8.1	8.4	8.1	8.4	8.1	7.8	8.1	7.5	7.3	7.0
92.5°	14.6	13.7	14.0	13.5	14.0	13.7	14.6	15.1	16.5	18.7	23.6
95°	38.1	35.6	33.6	32.5	33.6	35.6	38.1	43.4	53.5	68.3	100.8
97.5°	111.0	98.4	90.8	88.4	90.8	98.4	111.0	131.7	165.1	201.2	251.2
100°	206.6	186.2	175.2	175.5	175.2	186.2	206.6	234.9	274.6	307.4	330.0
102.5°	289.2	273.1	264.0	257.5	264.0	273.1	289.2	311.2	336.4	355.5	356.2
105°	377.1	366.5	357.5	356.1	357.5	366.5	377.1	390.0	397.2	391.9	363.9
107.5°	422.1	418.4	415.4	412.9	415.4	418.4	422.1	421.8	411.9	387.3	341.8
110°	435.1	437.3	436.7	436.2	436.7	437.3	435.1	427.2	407.6	372.3	320.8



TEST NUMBER: P332047-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	431.7	438.6	440.8	440.8	440.8	438.6	431.7	417.3	392.1	352.6	300.0
115°	413.8	426.0	431.7	433.1	431.7	426.0	413.8	392.8	362.3	321.1	272.4
117.5°	384.3	398.4	406.4	408.3	406.4	398.4	384.3	362.3	331.4	294.5	252.4
120°	363.6	379.3	386.0	387.7	386.0	379.3	363.6	341.5	313.2	279.6	241.9
122.5°	344.8	358.9	366.3	368.4	366.3	358.9	344.8	325.2	298.9	267.8	233.6
125°	320.3	332.6	339.6	341.5	339.6	332.6	320.3	302.4	280.0	253.1	222.5
127.5°	300.7	311.2	317.6	319.3	317.6	311.2	300.7	284.8	264.4	240.1	212.9
130°	288.6	298.7	304.6	306.8	304.6	298.7	288.6	273.8	254.8	232.1	206.8
132.5°	277.7	287.7	292.9	294.5	292.9	287.7	277.7	263.7	245.6	224.4	201.3
135°	261.5	269.9	274.9	276.9	274.9	269.9	261.5	247.7	231.8	213.6	193.7
137.5°	244.2	252.7	256.9	258.3	256.9	252.7	244.2	232.7	218.8	203.1	186.8
140°	233.2	241.1	245.5	245.3	245.5	241.1	233.2	222.5	210.5	197.1	182.8
142.5°	222.4	229.4	233.4	233.1	233.4	229.4	222.4	213.3	202.9	191.2	179.0
145°	207.7	213.6	215.9	216.4	215.9	213.6	207.7	200.7	192.6	183.6	174.4
147.5°	196.3	200.3	202.4	202.6	202.4	200.3	196.3	191.0	185.2	178.0	170.6
150°	189.8	192.9	194.6	194.6	194.6	192.9	189.8	185.6	180.3	174.4	167.9
152.5°	183.9	186.8	187.8	187.8	187.8	186.8	183.9	180.7	176.3	171.0	165.5
155°	176.3	178.6	179.2	179.4	179.2	178.6	176.3	173.8	170.5	166.3	161.8
157.5°	169.7	171.3	171.8	171.7	171.8	171.3	169.7	167.5	164.9	161.6	157.9
160°	165.4	167.2	167.2	166.8	167.2	167.2	165.4	163.5	161.5	158.8	155.7
162.5°	161.2	162.6	162.6	162.4	162.6	162.6	161.2	159.9	158.2	155.6	153.0
165°	155.7	156.8	156.5	156.5	156.5	156.8	155.7	154.6	153.1	151.1	149.5
167.5°	150.4	151.1	150.9	150.9	150.9	151.1	150.4	149.9	148.9	147.7	146.5
170°	147.3	147.8	147.5	147.5	147.5	147.8	147.3	146.9	146.4	145.3	144.4
172.5°	144.6	145.1	144.7	144.4	144.7	145.1	144.6	144.5	144.2	143.3	142.7
175°	141.1	141.4	141.1	140.9	141.1	141.4	141.1	141.1	141.1	140.5	140.2
177.5°	138.9	139.2	138.7	138.7	138.7	139.2	138.9	139.2	139.2	138.9	138.7
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



TEST NUMBER: P332047-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1232.2	1232.2	1241.7	1247.7	1255.1	1260.1	1263.6	1267.1	1273.1	1281.0	1290.0
5°	1161.7	1164.3	1178.0	1191.7	1204.8	1215.9	1225.3	1236.4	1250.1	1266.9	1285.6
7.5°	1093.5	1103.1	1116.9	1133.6	1151.9	1168.2	1184.8	1203.2	1222.5	1247.3	1273.4
10°	1049.7	1060.3	1077.1	1098.3	1117.5	1136.9	1157.4	1177.3	1201.6	1230.9	1264.5
12.5°	1011.4	1021.4	1038.7	1061.9	1080.2	1101.5	1125.1	1151.0	1178.2	1213.5	1251.6
15°	958.1	970.0	991.2	1002.3	1030.4	1055.9	1077.7	1115.1	1149.9	1186.1	1230.3
17.5°	914.6	921.1	938.3	959.2	980.1	1008.7	1037.2	1068.3	1103.1	1147.3	1202.6
20°	884.7	890.3	908.9	930.8	953.2	979.4	1004.9	1036.0	1075.2	1121.9	1181.7
22.5°	862.3	868.4	880.6	903.9	924.8	946.5	972.0	1009.1	1050.8	1096.5	1161.3
25°	829.9	833.6	841.8	860.4	879.1	903.4	925.8	960.7	1003.6	1057.2	1121.9
27.5°	799.2	802.8	809.5	822.9	840.3	860.1	884.5	914.1	957.7	1015.8	1084.6
30°	780.7	781.3	787.6	800.0	815.0	831.2	853.6	887.2	928.3	987.5	1059.6
32.5°	764.8	762.4	766.7	776.1	790.6	806.8	825.2	858.3	897.9	956.1	1030.2
35°	737.8	736.5	734.7	742.8	755.2	767.6	783.9	808.7	853.6	907.8	985.6
37.5°	710.3	707.3	703.9	707.7	717.3	730.3	744.3	766.5	805.2	864.7	939.2
40°	689.8	687.4	685.5	684.2	692.9	705.4	716.0	737.1	773.2	829.9	903.4
42.5°	667.4	665.9	663.5	661.8	669.1	678.5	689.6	708.3	744.3	797.6	867.0
45°	631.3	630.1	628.8	627.6	631.9	640.6	649.4	663.1	694.2	745.8	808.7
47.5°	591.1	589.5	589.9	588.0	592.2	598.1	604.2	618.9	648.7	690.5	736.4
50°	562.2	561.6	561.6	561.6	562.8	569.7	575.3	586.5	613.9	655.6	688.6
52.5°	534.8	532.2	532.2	533.2	535.4	539.8	543.4	555.6	579.5	613.8	643.7
55°	491.9	486.9	485.6	486.9	488.7	492.5	496.2	506.2	526.7	552.2	569.7
57.5°	444.3	441.6	439.9	440.1	441.2	444.2	447.0	457.9	474.0	487.4	498.6
60°	410.9	412.2	406.5	407.8	407.8	410.3	414.6	421.5	435.2	444.5	455.7
62.5°	379.5	377.8	376.2	374.5	374.5	375.4	381.3	386.7	398.3	403.2	411.9
65°	330.6	330.6	326.9	328.1	328.8	324.4	327.5	333.7	341.2	343.0	351.2
67.5°	281.1	279.3	277.2	275.3	275.3	275.0	276.6	279.6	285.3	285.9	292.2
70°	247.2	245.9	245.3	243.4	241.0	244.1	242.2	245.3	248.4	249.1	252.8
72.5°	214.3	213.0	211.9	210.1	209.1	208.7	208.8	212.5	214.5	213.7	217.9
75°	167.5	166.2	165.0	161.8	161.8	160.0	160.7	163.1	165.6	163.7	167.5
77.5°	123.0	119.1	118.9	119.8	117.6	118.0	117.3	116.9	118.0	118.2	121.5
80°	94.7	90.3	91.5	90.9	90.3	89.7	88.4	89.0	89.7	90.3	92.1
82.5°	68.2	67.9	66.6	66.5	65.9	64.2	63.5	64.6	65.3	64.9	66.2
85°	34.9	33.0	34.2	33.6	34.2	33.6	31.8	31.8	33.0	32.4	33.6
87.5°	11.8	11.9	11.2	11.5	10.9	11.2	10.6	10.9	11.3	11.2	12.0
90°	6.7	7.0	6.2	5.3	4.5	3.6	3.1	2.5	1.7	1.1	0.6
92.5°	32.5	43.0	47.4	35.6	23.5	16.2	12.0	9.7	7.5	5.1	3.5
95°	134.7	166.0	147.8	101.9	60.2	36.4	25.5	18.2	13.5	10.4	9.5
97.5°	275.2	257.3	188.4	111.8	64.8	42.1	30.3	23.1	18.9	16.5	16.2
100°	320.3	265.1	179.2	105.5	64.1	44.5	33.6	26.9	23.0	21.0	20.8
102.5°	322.5	250.6	165.7	100.1	65.0	47.5	37.4	31.4	27.6	25.9	25.4
105°	305.4	225.1	149.2	96.3	67.5	52.4	43.6	38.3	35.0	33.4	32.5
107.5°	275.5	202.6	138.7	96.0	72.1	58.8	50.7	45.7	42.5	40.8	40.0
110°	256.7	189.8	134.7	97.1	75.9	63.3	55.5	50.7	47.6	46.2	45.3



TEST NUMBER: P332047-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	240.3	181.3	132.4	99.4	79.7	68.0	60.4	55.6	52.5	51.1	50.3
115°	220.6	172.1	131.6	103.0	86.0	75.3	67.7	63.0	60.2	58.5	57.4
117.5°	208.7	166.8	132.1	107.8	92.6	82.1	75.1	69.8	67.2	65.8	64.5
120°	202.4	164.3	133.0	111.4	96.9	86.7	79.8	74.5	71.7	70.3	69.4
122.5°	197.3	162.8	134.5	114.8	101.3	91.5	84.1	79.0	75.9	74.5	73.7
125°	190.7	160.7	136.9	120.1	107.8	98.0	90.4	85.1	82.0	80.3	79.8
127.5°	184.8	159.7	139.6	124.5	113.4	103.9	96.3	90.5	87.4	85.2	84.4
130°	181.6	159.0	141.4	127.4	116.8	107.5	100.0	94.0	90.7	88.2	87.4
132.5°	178.8	158.8	142.8	130.1	119.6	110.7	103.3	97.4	93.4	90.6	89.6
135°	175.0	158.4	144.7	133.6	124.0	115.3	107.8	101.9	97.7	94.6	93.5
137.5°	171.7	157.8	146.1	136.1	127.1	118.7	111.7	105.8	101.4	98.4	97.2
140°	169.6	157.6	146.9	137.4	129.0	121.0	113.9	108.4	103.9	101.1	99.7
142.5°	167.9	157.2	147.7	138.8	130.6	122.7	116.2	110.6	106.5	103.5	102.3
145°	165.4	156.5	148.1	140.2	132.7	125.4	119.0	114.2	110.0	107.5	106.6
147.5°	163.1	155.4	148.1	141.2	134.4	127.7	122.2	117.6	114.0	111.5	111.1
150°	161.5	154.6	148.1	141.4	135.5	129.0	124.0	120.1	116.5	114.2	113.9
152.5°	159.7	153.4	147.4	141.8	136.2	130.6	125.8	122.3	119.1	116.9	116.8
155°	157.0	151.5	146.7	142.0	137.4	132.7	128.8	125.7	122.9	121.2	121.2
157.5°	154.0	149.7	145.8	142.2	138.2	134.4	131.3	128.7	126.3	124.9	124.7
160°	152.0	148.4	145.3	142.2	138.9	135.5	132.7	130.7	128.5	127.4	127.4
162.5°	150.0	147.0	144.4	142.0	139.1	136.2	133.8	132.1	130.3	129.4	129.4
165°	147.3	145.0	143.1	141.4	139.4	137.2	135.2	134.1	132.7	132.1	132.4
167.5°	144.7	143.0	141.7	140.9	139.3	137.8	136.5	135.7	134.7	134.4	134.7
170°	143.1	141.6	140.9	140.2	139.1	137.8	137.2	136.6	135.8	135.5	136.0
172.5°	141.5	140.5	140.1	140.1	139.1	137.9	137.6	137.3	136.7	136.6	137.0
175°	139.7	139.1	139.1	139.4	138.9	138.3	138.0	138.0	137.4	137.8	138.0
177.5°	138.6	138.3	138.6	138.9	138.6	138.3	138.3	138.3	138.1	138.3	138.6
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



TEST NUMBER: P332047-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1293.0	1295.5	1303.9	1310.0	1316.9	1320.9	1324.8	1327.9	1331.8	1332.8	1347.3
5°	1298.7	1311.2	1333.0	1349.2	1369.0	1390.8	1405.8	1412.7	1430.7	1445.7	1475.5
7.5°	1297.1	1323.7	1356.5	1390.6	1427.2	1461.1	1490.5	1525.3	1550.1	1587.4	1624.1
10°	1295.6	1331.1	1373.4	1417.1	1468.1	1515.4	1557.7	1605.0	1644.3	1695.9	1740.1
12.5°	1291.1	1334.1	1392.9	1444.4	1506.4	1571.7	1634.4	1695.2	1730.0	1816.0	1856.7
15°	1280.1	1331.1	1404.5	1483.0	1568.3	1645.5	1725.2	1788.7	1891.4	1966.8	2014.7
17.5°	1258.9	1330.4	1417.5	1512.1	1615.9	1717.6	1807.9	1904.2	2013.3	2104.4	2201.5
20°	1249.0	1327.4	1424.5	1529.1	1636.8	1752.0	1854.7	1970.5	2089.5	2179.1	2303.6
22.5°	1230.5	1319.4	1424.0	1540.6	1655.7	1774.9	1895.1	2011.8	2149.2	2272.7	2391.3
25°	1200.4	1300.0	1408.3	1538.4	1673.6	1793.1	1936.9	2091.9	2235.1	2393.9	2512.2
27.5°	1168.7	1275.1	1383.6	1504.7	1650.0	1791.8	1972.8	2147.9	2323.0	2460.1	2547.7
30°	1144.3	1247.7	1359.8	1481.8	1625.6	1794.3	1996.6	2187.8	2358.4	2476.0	2525.2
32.5°	1117.9	1222.7	1321.9	1449.9	1603.1	1792.8	2011.6	2211.2	2360.4	2438.7	2429.1
35°	1076.5	1164.3	1260.8	1384.0	1564.6	1781.9	2020.3	2213.3	2304.9	2288.1	2161.0
37.5°	1016.7	1090.5	1185.6	1320.5	1519.7	1758.8	2002.9	2147.7	2141.7	2004.9	1820.8
40°	979.4	1042.2	1133.8	1275.7	1484.9	1743.9	1975.5	2069.5	1989.8	1798.6	1578.3
42.5°	930.5	988.4	1080.0	1225.9	1446.5	1713.5	1923.2	1950.4	1794.5	1574.5	1372.5
45°	854.8	905.9	1000.5	1151.2	1389.0	1647.3	1795.6	1728.9	1519.1	1291.9	1138.1
47.5°	773.5	826.6	917.6	1072.4	1305.8	1547.9	1618.5	1476.8	1261.4	1077.1	935.9
50°	722.2	773.2	862.3	1018.6	1249.5	1466.2	1495.5	1312.4	1114.4	952.6	836.8
52.5°	670.4	718.5	806.0	962.7	1183.8	1371.6	1353.5	1167.0	984.9	847.0	756.1
55°	593.3	638.8	722.2	869.1	1070.2	1219.0	1153.7	975.6	824.9	717.9	648.7
57.5°	524.3	567.9	639.9	772.6	947.5	1049.7	966.5	816.5	696.6	614.3	562.7
60°	477.5	516.1	584.6	707.9	859.8	937.6	855.5	722.9	621.9	556.0	509.9
62.5°	433.2	466.8	530.3	642.1	774.1	839.5	756.3	644.1	558.3	499.7	460.6
65°	366.1	396.6	452.7	539.8	648.1	691.7	620.1	529.2	462.6	419.0	392.8
67.5°	304.8	330.7	379.1	447.7	527.4	559.2	504.7	434.4	384.1	349.1	328.4
70°	264.0	286.4	324.4	383.5	455.7	480.0	429.0	371.1	334.3	306.3	287.0
72.5°	229.6	246.1	280.5	326.2	386.5	405.8	370.2	319.2	285.0	264.0	248.7
75°	174.9	188.6	211.0	247.8	289.5	300.7	273.9	242.2	219.1	204.2	192.3
77.5°	126.1	136.3	152.4	175.1	204.0	214.0	197.1	175.9	159.1	149.0	142.4
80°	95.2	103.4	117.1	135.7	153.1	158.8	148.8	132.6	120.8	115.2	109.6
82.5°	70.3	74.9	83.2	95.9	107.8	114.5	106.0	96.3	89.9	84.8	82.7
85°	35.5	37.9	41.7	46.7	54.2	56.6	53.6	51.0	47.3	44.2	44.2
87.5°	13.2	13.3	15.0	16.1	18.1	19.8	19.5	18.7	18.3	17.7	17.3
90°	1.1	1.7	2.5	3.1	3.6	4.5	5.3	6.2	7.0	6.7	7.0
92.5°	5.1	7.5	9.7	12.0	16.2	23.5	35.6	47.4	43.0	32.5	23.6
95°	10.4	13.5	18.2	25.5	36.4	60.2	101.9	147.8	166.0	134.7	100.8
97.5°	16.5	18.9	23.1	30.3	42.1	64.8	111.8	188.4	257.3	275.2	251.2
100°	21.0	23.0	26.9	33.6	44.5	64.1	105.5	179.2	265.1	320.3	330.0
102.5°	25.9	27.6	31.4	37.4	47.5	65.0	100.1	165.7	250.6	322.5	356.2
105°	33.4	35.0	38.3	43.6	52.4	67.5	96.3	149.2	225.1	305.4	363.9
107.5°	40.8	42.5	45.7	50.7	58.8	72.1	96.0	138.7	202.6	275.5	341.8
110°	46.2	47.6	50.7	55.5	63.3	75.9	97.1	134.7	189.8	256.7	320.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	51.1	52.5	55.6	60.4	68.0	79.7	99.4	132.4	181.3	240.3	300.0
115°	58.5	60.2	63.0	67.7	75.3	86.0	103.0	131.6	172.1	220.6	272.4
117.5°	65.8	67.2	69.8	75.1	82.1	92.6	107.8	132.1	166.8	208.7	252.4
120°	70.3	71.7	74.5	79.8	86.7	96.9	111.4	133.0	164.3	202.4	241.9
122.5°	74.5	75.9	79.0	84.1	91.5	101.3	114.8	134.5	162.8	197.3	233.6
125°	80.3	82.0	85.1	90.4	98.0	107.8	120.1	136.9	160.7	190.7	222.5
127.5°	85.2	87.4	90.5	96.3	103.9	113.4	124.5	139.6	159.7	184.8	212.9
130°	88.2	90.7	94.0	100.0	107.5	116.8	127.4	141.4	159.0	181.6	206.8
132.5°	90.6	93.4	97.4	103.3	110.7	119.6	130.1	142.8	158.8	178.8	201.3
135°	94.6	97.7	101.9	107.8	115.3	124.0	133.6	144.7	158.4	175.0	193.7
137.5°	98.4	101.4	105.8	111.7	118.7	127.1	136.1	146.1	157.8	171.7	186.8
140°	101.1	103.9	108.4	113.9	121.0	129.0	137.4	146.9	157.6	169.6	182.8
142.5°	103.5	106.5	110.6	116.2	122.7	130.6	138.8	147.7	157.2	167.9	179.0
145°	107.5	110.0	114.2	119.0	125.4	132.7	140.2	148.1	156.5	165.4	174.4
147.5°	111.5	114.0	117.6	122.2	127.7	134.4	141.2	148.1	155.4	163.1	170.6
150°	114.2	116.5	120.1	124.0	129.0	135.5	141.4	148.1	154.6	161.5	167.9
152.5°	116.9	119.1	122.3	125.8	130.6	136.2	141.8	147.4	153.4	159.7	165.5
155°	121.2	122.9	125.7	128.8	132.7	137.4	142.0	146.7	151.5	157.0	161.8
157.5°	124.9	126.3	128.7	131.3	134.4	138.2	142.2	145.8	149.7	154.0	157.9
160°	127.4	128.5	130.7	132.7	135.5	138.9	142.2	145.3	148.4	152.0	155.7
162.5°	129.4	130.3	132.1	133.8	136.2	139.1	142.0	144.4	147.0	150.0	153.0
165°	132.1	132.7	134.1	135.2	137.2	139.4	141.4	143.1	145.0	147.3	149.5
167.5°	134.4	134.7	135.7	136.5	137.8	139.3	140.9	141.7	143.0	144.7	146.5
170°	135.5	135.8	136.6	137.2	137.8	139.1	140.2	140.9	141.6	143.1	144.4
172.5°	136.6	136.7	137.3	137.6	137.9	139.1	140.1	140.1	140.5	141.5	142.7
175°	137.8	137.4	138.0	138.0	138.3	138.9	139.4	139.1	139.1	139.7	140.2
177.5°	138.3	138.1	138.3	138.3	138.3	138.6	138.9	138.6	138.3	138.6	138.7
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3	138.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1352.3	1352.7	1358.3	1362.2	1360.3	1362.7	1363.7
5°	1477.4	1499.8	1511.6	1520.4	1521.0	1521.6	1526.6
7.5°	1654.9	1678.9	1696.5	1723.1	1731.1	1740.1	1737.5
10°	1784.4	1819.8	1850.4	1866.5	1884.0	1909.5	1889.0
12.5°	1905.4	1968.3	2014.7	2039.9	2056.3	2061.4	2051.4
15°	2105.0	2187.1	2231.3	2230.2	2286.2	2310.5	2272.5
17.5°	2288.1	2363.9	2424.6	2455.8	2502.4	2512.8	2508.0
20°	2400.1	2482.9	2530.2	2583.8	2608.0	2629.8	2633.5
22.5°	2496.7	2571.0	2621.9	2666.4	2686.8	2697.1	2703.3
25°	2596.2	2654.8	2685.3	2700.8	2706.4	2705.1	2697.1
27.5°	2589.3	2593.8	2560.3	2527.2	2497.8	2464.5	2453.0
30°	2522.1	2469.8	2376.5	2323.5	2245.7	2184.0	2208.9
32.5°	2345.3	2241.2	2136.4	2020.7	1924.9	1897.7	1870.3
35°	2001.6	1818.6	1711.5	1587.0	1537.2	1487.4	1453.1
37.5°	1619.4	1477.8	1350.8	1269.3	1219.4	1187.9	1171.0
40°	1400.2	1272.6	1168.0	1102.0	1064.0	1028.5	1023.6
42.5°	1225.4	1106.8	1028.0	975.5	939.0	923.9	913.0
45°	1003.6	920.8	867.9	830.5	806.3	796.9	784.5
47.5°	849.5	790.9	751.2	725.8	707.5	700.5	699.6
50°	763.3	714.7	685.5	665.5	651.3	648.7	638.8
52.5°	698.5	656.5	633.7	616.2	605.9	599.0	596.0
55°	606.4	578.4	557.9	547.9	539.8	532.9	532.9
57.5°	530.6	507.2	493.6	485.1	482.6	477.8	474.7
60°	483.8	463.8	453.3	445.8	440.8	441.4	435.8
62.5°	437.9	425.0	414.9	407.4	401.5	401.6	402.0
65°	373.0	363.0	355.5	353.0	349.3	344.9	346.2
67.5°	316.0	306.7	300.9	296.6	295.3	293.0	296.6
70°	275.2	268.3	264.0	260.2	259.0	259.6	262.8
72.5°	237.8	233.0	230.1	228.4	225.6	225.8	227.8
75°	186.8	183.1	180.5	178.7	178.1	178.1	178.1
77.5°	137.2	136.3	135.2	132.5	132.6	133.3	133.5
80°	108.4	106.5	105.8	104.6	102.7	101.5	104.6
82.5°	81.0	79.1	78.4	78.2	75.3	75.1	77.7
85°	43.6	41.7	42.3	41.7	41.7	41.1	41.1
87.5°	16.9	16.5	16.1	16.5	16.1	15.6	16.6
90°	7.3	7.5	8.1	7.8	8.1	8.4	8.1
92.5°	18.7	16.5	15.1	14.6	13.7	14.0	13.5
95°	68.3	53.5	43.4	38.1	35.6	33.6	32.5
97.5°	201.2	165.1	131.7	111.0	98.4	90.8	88.4
100°	307.4	274.6	234.9	206.6	186.2	175.2	175.5
102.5°	355.5	336.4	311.2	289.2	273.1	264.0	257.5
105°	391.9	397.2	390.0	377.1	366.5	357.5	356.1
107.5°	387.3	411.9	421.8	422.1	418.4	415.4	412.9
110°	372.3	407.6	427.2	435.1	437.3	436.7	436.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	352.6	392.1	417.3	431.7	438.6	440.8	440.8
115°	321.1	362.3	392.8	413.8	426.0	431.7	433.1
117.5°	294.5	331.4	362.3	384.3	398.4	406.4	408.3
120°	279.6	313.2	341.5	363.6	379.3	386.0	387.7
122.5°	267.8	298.9	325.2	344.8	358.9	366.3	368.4
125°	253.1	280.0	302.4	320.3	332.6	339.6	341.5
127.5°	240.1	264.4	284.8	300.7	311.2	317.6	319.3
130°	232.1	254.8	273.8	288.6	298.7	304.6	306.8
132.5°	224.4	245.6	263.7	277.7	287.7	292.9	294.5
135°	213.6	231.8	247.7	261.5	269.9	274.9	276.9
137.5°	203.1	218.8	232.7	244.2	252.7	256.9	258.3
140°	197.1	210.5	222.5	233.2	241.1	245.5	245.3
142.5°	191.2	202.9	213.3	222.4	229.4	233.4	233.1
145°	183.6	192.6	200.7	207.7	213.6	215.9	216.4
147.5°	178.0	185.2	191.0	196.3	200.3	202.4	202.6
150°	174.4	180.3	185.6	189.8	192.9	194.6	194.6
152.5°	171.0	176.3	180.7	183.9	186.8	187.8	187.8
155°	166.3	170.5	173.8	176.3	178.6	179.2	179.4
157.5°	161.6	164.9	167.5	169.7	171.3	171.8	171.7
160°	158.8	161.5	163.5	165.4	167.2	167.2	166.8
162.5°	155.6	158.2	159.9	161.2	162.6	162.6	162.4
165°	151.1	153.1	154.6	155.7	156.8	156.5	156.5
167.5°	147.7	148.9	149.9	150.4	151.1	150.9	150.9
170°	145.3	146.4	146.9	147.3	147.8	147.5	147.5
172.5°	143.3	144.2	144.5	144.6	145.1	144.7	144.4
175°	140.5	141.1	141.1	141.1	141.4	141.1	140.9
177.5°	138.9	139.2	139.2	138.9	139.2	138.7	138.7
180°	138.3	138.3	138.3	138.3	138.3	138.3	138.3

(END OF REPORT)