

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: P332056-830

Luminaire Tested: **S123DIP-S1165D585U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332056-830
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-S1165D585U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6614.7 lumens
Efficiency: N/A
Efficacy: 120.0 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

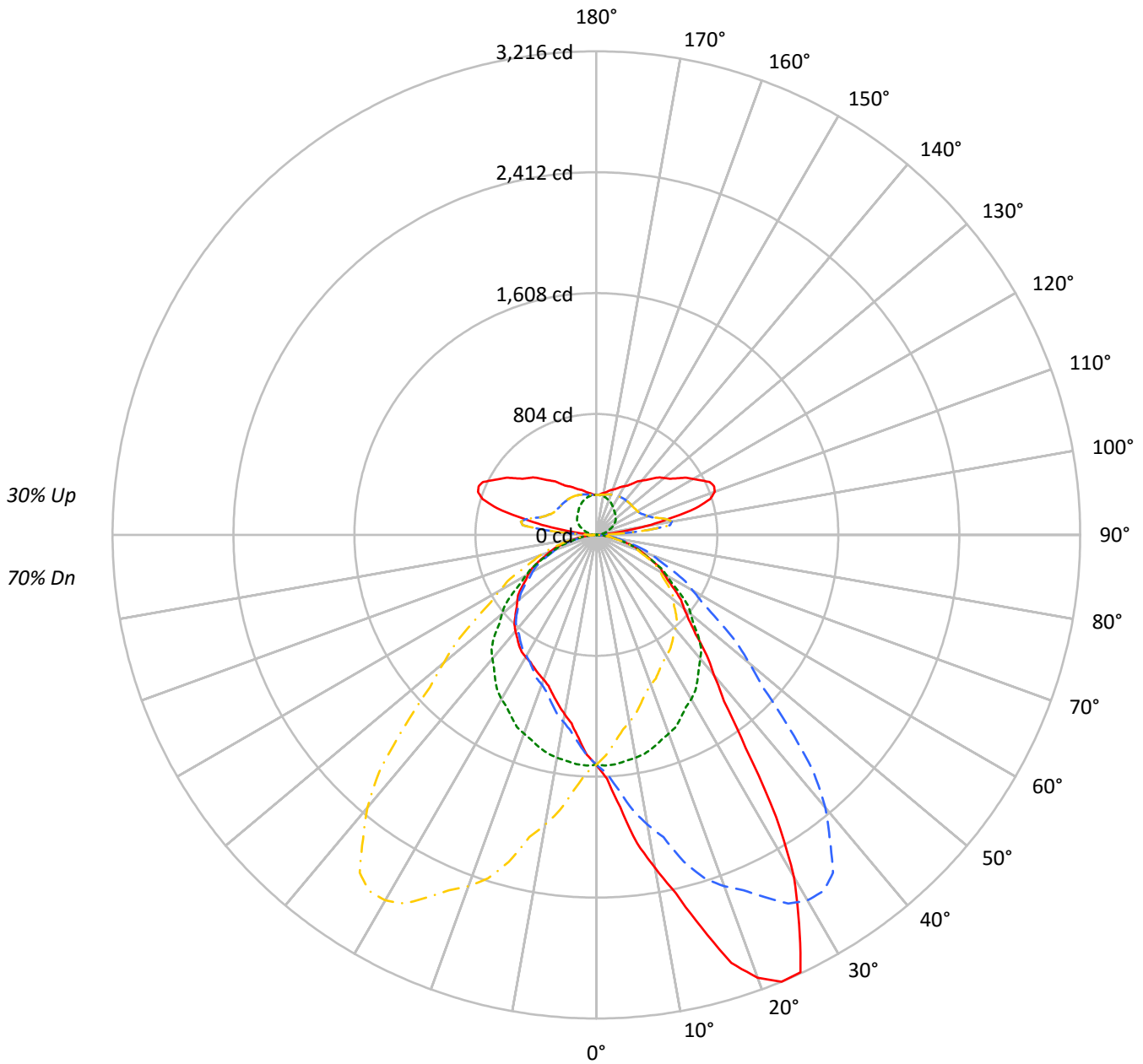
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	98	94	91	97	93	90	87	83	81	78	75	73	71	66	65	64	60
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	50
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	43
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	37
5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35	32
6	67	55	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28	25
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	32	28	25	23
9	54	41	34	28	51	39	32	27	36	30	26	33	28	24	30	26	23	21
10	50	38	30	26	48	36	29	25	33	27	23	30	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16457	16457	16457	16457
5°	19626	16528	14647	16528
10°	24565	16444	13230	16444
15°	30130	16312	12316	16312
20°	35892	16105	11726	16105
25°	38112	15853	11595	15853
30°	32666	15669	11656	15669
35°	22718	15408	11779	15408
40°	17113	15104	11741	15104
45°	14209	14647	11592	14647
50°	12728	13720	11488	13720
55°	11898	12720	11344	12720
60°	11162	11672	11227	11672
65°	10491	10641	10868	10641
70°	9838	9467	10351	9467
75°	8813	8289	9491	8289
80°	7711	6794	8176	6794
85°	6039	4940	5496	4940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	2.3
10°-20°	482.9	7.3
20°-30°	810.5	12.3
30°-40°	917.8	13.9
40°-50°	823.0	12.4
50°-60°	664.2	10.0
60°-70°	462.8	7.0
70°-80°	243.3	3.7
80°-90°	61.6	0.9
90°-100°	147.8	2.2
100°-110°	418.5	6.3
110°-120°	411.7	6.2
120°-130°	328.4	5.0
130°-140°	258.9	3.9
140°-150°	193.2	2.9
150°-160°	134.7	2.0
160°-170°	79.1	1.2
170°-180°	25.7	0.4
0°-30°	1444.1	21.8
0°-40°	2361.9	35.7
0°-60°	3849.1	58.2
0°-90°	4616.7	69.8
90°-120°	978.0	14.8
90°-150°	1758.5	26.6
90°-180°	1998.0	30.2
0°-180°	6614.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1529	1529	1529	1529	1529	
5°	1816	1530	1356	1530	1816	188
15°	2704	1464	1105	1464	2704	781
25°	3209	1335	976	1335	3209	1407
35°	1729	1173	896	1173	1729	1123
45°	933	962	762	962	933	739
55°	634	678	604	678	634	569
65°	412	418	427	418	412	410
75°	212	199	228	199	212	227
85°	49	40	44	40	49	58
90°	16	1	16	1	16	11
95°	62	18	62	18	62	112
105°	684	62	684	62	684	675
115°	832	110	832	110	832	808
125°	656	153	656	153	656	594
135°	532	180	532	180	532	412
145°	416	205	416	205	416	264
155°	345	233	345	233	345	161
165°	300	254	300	254	300	86
175°	270	265	270	265	270	26
180°	266	266	266	266	266	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1622.6	1621.4	1618.4	1620.8	1616.1	1609.5	1608.9	1603.0	1585.8	1584.6	1579.9
5°	1816.4	1810.4	1809.7	1808.9	1798.6	1784.5	1757.8	1755.6	1720.0	1702.2	1680.8
7.5°	2067.3	2070.4	2059.6	2050.1	2018.5	1997.5	1969.0	1932.4	1888.7	1844.4	1814.9
10°	2247.5	2271.9	2241.6	2220.8	2201.6	2165.2	2123.1	2070.4	2017.8	1956.3	1909.7
12.5°	2440.7	2452.7	2446.6	2427.0	2397.1	2341.8	2267.0	2209.1	2160.7	2058.3	2016.9
15°	2703.8	2749.0	2720.1	2653.4	2654.9	2602.3	2504.5	2397.1	2340.1	2250.4	2128.3
17.5°	2984.1	2989.7	2977.4	2921.9	2884.8	2812.5	2722.3	2619.3	2503.8	2395.4	2265.7
20°	3133.4	3129.0	3103.0	3074.2	3010.5	2954.2	2855.6	2740.8	2592.7	2486.1	2344.5
22.5°	3216.4	3209.0	3196.7	3172.5	3119.5	3059.0	2970.6	2845.2	2704.1	2557.1	2393.7
25°	3209.0	3218.6	3220.1	3213.4	3194.9	3158.6	3089.0	2989.0	2848.3	2659.4	2489.0
27.5°	2918.6	2932.2	2971.8	3006.9	3046.2	3086.2	3080.8	3031.2	2927.1	2763.9	2555.6
30°	2628.2	2598.6	2671.9	2764.6	2827.5	2938.6	3000.9	3004.5	2946.0	2806.0	2603.0
32.5°	2225.2	2257.9	2290.3	2404.2	2541.8	2666.6	2790.5	2890.2	2901.6	2808.4	2630.9
35°	1728.9	1769.7	1828.9	1888.2	2036.4	2163.8	2381.5	2571.2	2722.3	2742.3	2633.4
37.5°	1393.3	1413.3	1450.9	1510.2	1607.1	1758.3	1926.7	2166.4	2385.4	2548.3	2555.3
40°	1217.9	1223.7	1265.9	1311.2	1389.7	1514.1	1665.9	1877.8	2140.0	2367.5	2462.3
42.5°	1086.3	1099.3	1117.2	1160.6	1223.1	1316.8	1458.0	1633.0	1873.4	2135.1	2320.6
45°	933.4	948.2	959.3	988.2	1032.6	1095.6	1194.1	1354.2	1537.1	1807.4	2057.1
47.5°	832.4	833.5	841.8	863.6	893.8	941.0	1010.7	1113.5	1281.5	1500.8	1757.1
50°	760.1	771.8	774.9	791.8	815.6	850.4	908.1	995.6	1133.4	1326.0	1561.5
52.5°	709.1	712.7	721.0	733.2	753.9	781.1	831.1	899.6	1007.8	1171.9	1388.5
55°	634.0	634.0	642.2	651.9	663.7	688.2	721.5	771.8	854.1	981.5	1160.7
57.5°	564.8	568.4	574.2	577.2	587.3	603.4	631.3	669.5	730.8	828.9	971.5
60°	518.5	525.2	524.4	530.4	539.3	551.9	575.6	606.7	661.5	740.0	860.1
62.5°	478.2	477.8	477.7	484.7	493.6	505.7	521.0	548.0	594.6	664.2	766.4
65°	411.9	410.4	415.6	420.0	423.0	431.9	443.7	467.4	498.5	550.4	629.6
67.5°	352.9	348.6	351.4	352.9	358.0	364.9	376.0	390.7	415.4	457.0	516.8
70°	312.6	308.9	308.1	309.6	314.1	319.2	327.4	341.5	364.5	397.8	441.5
72.5°	271.1	268.6	268.4	271.7	273.8	277.2	283.0	295.9	314.1	339.1	379.8
75°	211.9	211.9	211.9	212.6	214.8	217.8	222.3	228.8	243.0	260.7	288.1
77.5°	158.8	158.6	157.8	157.6	160.9	162.2	163.2	169.5	177.3	189.4	209.3
80°	124.4	120.7	122.2	124.4	125.9	126.7	128.9	130.4	137.0	143.7	157.8
82.5°	92.5	89.4	89.6	93.0	93.3	94.1	96.3	98.4	100.9	107.0	114.5
85°	48.9	48.9	49.7	49.7	50.3	49.7	51.8	52.6	52.6	56.3	60.7
87.5°	20.9	19.8	20.3	20.8	20.3	20.6	21.2	21.7	22.1	22.8	23.1
90°	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5	12.9	13.5	11.8
92.5°	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2	62.4	82.7	91.0
95°	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5	258.5	318.8	283.9
97.5°	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5	528.6	494.1	361.7
100°	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9	615.0	509.1	344.0
102.5°	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2	619.3	481.2	318.3
105°	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9	586.5	432.3	286.5
107.5°	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5	529.1	389.0	266.4
110°	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0	492.9	364.5	258.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1	461.6	348.2	254.3
115°	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1	423.7	330.6	252.7
117.5°	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7	400.8	320.3	253.6
120°	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5	388.7	315.6	255.3
122.5°	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6	378.8	312.5	258.4
125°	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3	366.1	308.6	262.9
127.5°	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9	355.0	306.6	268.1
130°	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3	348.9	305.4	271.5
132.5°	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5	343.3	304.9	274.1
135°	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0	336.0	304.3	278.0
137.5°	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8	329.7	303.1	280.5
140°	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1	325.7	302.7	282.2
142.5°	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7	322.3	301.8	283.5
145°	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9	317.7	300.5	284.4
147.5°	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7	313.2	298.5	284.4
150°	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5	310.2	296.7	284.4
152.5°	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8	306.8	294.6	283.1
155°	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8	301.6	290.9	281.7
157.5°	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2	295.8	287.5	279.8
160°	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9	291.9	284.9	279.0
162.5°	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8	288.0	282.4	277.3
165°	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1	282.8	278.5	274.8
167.5°	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3	277.8	274.6	272.1
170°	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4	274.8	272.0	270.4
172.5°	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0	271.7	269.8	269.1
175°	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4	268.2	267.2	267.2
177.5°	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5	266.0	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1576.3	1571.6	1566.9	1558.6	1551.4	1541.3	1538.4	1534.8	1524.2	1514.8	1507.6
5°	1672.6	1654.8	1628.9	1605.2	1586.0	1560.1	1545.2	1529.7	1507.4	1487.4	1471.1
7.5°	1773.4	1738.4	1698.1	1654.5	1614.0	1574.9	1543.3	1515.1	1484.0	1454.5	1431.6
10°	1853.4	1803.0	1746.7	1686.0	1634.1	1583.8	1541.5	1504.5	1464.5	1429.6	1400.8
12.5°	1944.7	1870.0	1792.3	1718.5	1657.3	1587.3	1536.2	1489.1	1443.8	1401.8	1369.4
15°	2052.7	1957.8	1866.0	1764.5	1671.1	1583.8	1523.1	1463.8	1411.2	1368.2	1326.7
17.5°	2151.1	2043.6	1922.6	1799.1	1686.6	1582.9	1497.8	1430.9	1365.1	1312.5	1271.1
20°	2206.8	2084.5	1947.5	1819.3	1694.9	1579.3	1486.0	1406.0	1334.8	1279.3	1232.7
22.5°	2254.8	2111.8	1970.0	1833.0	1694.3	1569.8	1464.1	1381.7	1304.7	1250.3	1200.6
25°	2304.5	2133.4	1991.2	1830.4	1675.7	1546.7	1428.2	1334.8	1257.8	1194.1	1143.0
27.5°	2347.2	2131.9	1963.1	1790.3	1646.2	1517.1	1390.5	1290.4	1208.6	1139.4	1087.6
30°	2375.6	2134.9	1934.1	1763.0	1617.9	1484.5	1361.5	1260.7	1174.9	1104.5	1055.6
32.5°	2393.4	2133.1	1907.4	1725.1	1572.8	1454.8	1330.1	1225.8	1137.6	1068.4	1021.2
35°	2403.8	2120.1	1861.5	1646.7	1500.1	1385.3	1280.8	1172.6	1080.1	1015.6	962.2
37.5°	2383.0	2092.6	1808.2	1571.1	1410.6	1297.5	1209.7	1117.5	1028.9	958.0	912.0
40°	2350.4	2074.9	1766.7	1517.9	1349.0	1240.0	1165.3	1074.9	987.4	920.0	877.0
42.5°	2288.2	2038.7	1721.1	1458.6	1285.0	1176.0	1107.1	1031.6	949.0	885.6	842.7
45°	2136.4	1960.0	1652.7	1369.7	1190.4	1077.8	1017.1	962.2	887.4	826.0	788.9
47.5°	1925.7	1841.7	1553.7	1275.9	1091.7	983.4	920.3	876.2	821.5	771.8	736.3
50°	1779.3	1744.5	1486.7	1211.9	1026.0	920.0	859.3	819.3	780.0	730.4	697.8
52.5°	1610.4	1631.9	1408.5	1145.5	959.0	854.9	797.7	765.9	730.3	689.5	661.1
55°	1372.6	1450.4	1273.4	1034.1	859.3	760.1	706.0	677.8	657.0	626.7	602.3
57.5°	1150.0	1249.0	1127.3	919.3	761.4	675.7	623.9	593.2	579.9	564.0	544.8
60°	1017.9	1115.6	1023.0	842.3	695.6	614.1	568.2	542.2	528.9	517.8	501.5
62.5°	899.8	998.8	921.1	764.0	630.9	555.4	515.4	490.1	479.8	473.9	460.1
65°	737.8	823.0	771.1	642.2	538.6	471.8	435.5	417.8	408.1	406.0	397.1
67.5°	600.5	665.3	627.5	532.7	451.1	393.5	362.7	347.6	340.2	339.4	332.7
70°	510.4	571.1	542.2	456.3	386.0	340.7	314.1	300.8	296.3	295.6	291.9
72.5°	440.5	482.9	459.9	388.1	333.8	292.8	273.1	259.3	254.2	255.2	252.8
75°	325.9	357.8	344.5	294.8	251.1	224.4	208.1	199.3	194.8	197.1	194.1
77.5°	234.5	254.7	242.7	208.3	181.3	162.1	150.1	144.6	140.6	140.4	139.1
80°	177.0	188.9	182.2	161.5	139.3	123.0	113.3	109.6	107.4	106.7	105.9
82.5°	126.1	136.2	128.3	114.0	99.0	89.2	83.7	78.8	77.2	77.7	76.9
85°	63.7	67.4	64.5	55.5	49.7	45.1	42.2	40.0	38.5	39.3	37.8
87.5°	23.9	24.2	22.1	19.5	18.2	16.0	15.8	14.4	13.5	13.7	13.4
90°	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0	2.2	3.2	4.8
92.5°	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7	9.9	14.4	18.6
95°	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3	19.9	25.8	35.0
97.5°	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2	31.8	36.4	44.3
100°	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8	40.3	44.1	51.7
102.5°	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8	49.8	53.2	60.2
105°	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4	64.0	67.2	73.6
107.5°	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7	78.4	81.5	87.8
110°	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1	88.7	91.4	97.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5	98.2	100.9	106.8
115°	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2	112.4	115.6	120.9
117.5°	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9	126.3	129.0	133.9
120°	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4	135.0	137.6	143.0
122.5°	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5	143.1	145.8	151.6
125°	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3	154.3	157.5	163.4
127.5°	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1	163.7	167.8	173.7
130°	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8	169.4	174.2	180.6
132.5°	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0	174.1	179.4	187.1
135°	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6	181.7	187.7	195.7
137.5°	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6	188.9	194.7	203.3
140°	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4	194.1	199.4	208.0
142.5°	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5	198.8	204.6	212.4
145°	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8	206.4	211.3	219.3
147.5°	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2	214.1	219.0	225.9
150°	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8	219.3	223.7	230.6
152.5°	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4	224.5	228.8	235.0
155°	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8	232.8	236.0	241.4
157.5°	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4	239.9	242.4	247.2
160°	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6	244.6	246.8	251.1
162.5°	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5	248.5	250.2	253.6
165°	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3	253.7	254.9	257.5
167.5°	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7	258.1	258.5	260.6
170°	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3	260.2	260.7	262.3
172.5°	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0	262.3	262.5	263.6
175°	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0	264.5	264.0	265.0
177.5°	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0	265.6	265.1	265.6
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332056-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1503.4	1499.3	1493.4	1484.5	1477.3	1466.1	1466.1	1467.9	1467.9	1467.4	1466.1
5°	1457.8	1446.7	1433.4	1417.9	1401.6	1385.3	1382.2	1376.3	1371.9	1368.9	1365.3
7.5°	1409.7	1390.0	1370.6	1348.8	1328.9	1312.5	1301.1	1291.6	1285.5	1279.0	1274.2
10°	1377.1	1352.6	1329.6	1306.7	1281.5	1261.5	1249.0	1240.0	1233.4	1227.5	1224.5
12.5°	1338.6	1310.6	1285.3	1263.5	1235.9	1215.3	1203.3	1199.1	1191.3	1178.8	1172.3
15°	1282.2	1256.3	1226.0	1192.6	1179.3	1154.1	1140.0	1133.4	1128.9	1119.3	1116.3
17.5°	1234.1	1200.1	1166.1	1141.2	1116.4	1096.0	1088.2	1079.9	1073.9	1066.1	1063.8
20°	1195.6	1165.3	1134.1	1107.5	1081.5	1059.3	1052.6	1046.7	1040.8	1037.1	1034.1
22.5°	1156.5	1126.1	1100.3	1075.4	1047.7	1033.2	1026.0	1019.5	1015.3	1012.8	1009.8
25°	1101.5	1074.9	1045.9	1023.7	1001.5	991.8	987.4	983.7	980.8	977.0	976.3
27.5°	1052.3	1023.3	999.8	979.1	963.2	955.2	950.8	949.0	949.7	951.0	951.9
30°	1015.6	988.9	969.7	951.9	937.1	929.6	928.9	928.9	931.9	932.6	934.1
32.5°	981.8	959.9	940.7	923.4	912.2	907.1	909.9	909.9	912.3	914.3	916.9
35°	932.6	913.3	898.5	883.7	874.1	876.3	877.8	879.3	883.0	887.4	890.4
37.5°	885.6	868.9	853.5	842.0	837.5	841.5	845.1	848.2	852.4	855.9	858.8
40°	851.9	839.2	824.4	814.1	815.6	817.8	820.8	824.4	828.2	830.4	833.4
42.5°	820.5	807.3	796.1	787.4	789.5	792.3	794.1	796.1	800.3	804.4	806.1
45°	772.6	762.2	751.9	746.7	748.2	749.7	751.1	753.4	757.1	760.1	760.7
47.5°	718.9	711.6	704.6	699.6	701.9	701.3	703.3	708.0	709.2	711.0	715.1
50°	684.5	677.8	669.7	668.2	668.2	668.2	668.9	674.9	674.9	677.8	680.8
52.5°	646.6	642.2	637.1	634.4	633.2	633.2	636.3	639.3	640.5	644.6	647.6
55°	590.4	586.0	581.5	579.3	577.8	579.3	585.2	586.6	590.4	592.6	594.8
57.5°	531.9	528.5	524.9	523.7	523.4	525.4	528.6	533.0	534.0	540.7	544.1
60°	493.3	488.1	485.2	485.2	483.7	490.4	488.9	496.3	497.8	502.3	507.5
62.5°	453.6	446.7	445.5	445.5	447.6	449.5	451.6	454.9	458.6	464.3	468.3
65°	389.6	386.0	391.2	390.4	388.9	393.3	393.3	397.1	401.5	406.7	414.8
67.5°	329.0	327.2	327.5	327.5	329.8	332.3	334.4	337.6	343.0	348.5	353.8
70°	288.1	290.4	286.7	289.6	291.9	292.6	294.1	298.5	304.4	308.1	314.1
72.5°	248.5	248.3	248.7	250.0	252.1	253.4	255.0	260.0	266.6	269.7	274.4
75°	191.1	190.4	192.6	192.6	196.3	197.7	199.3	201.5	207.5	211.9	215.6
77.5°	139.6	140.4	140.0	142.5	141.5	141.8	146.4	148.6	149.2	158.0	159.9
80°	105.2	106.7	107.4	108.1	108.9	107.4	112.6	114.8	114.8	120.0	123.7
82.5°	75.6	76.4	78.4	79.1	79.3	80.8	81.2	82.8	84.6	86.8	91.7
85°	37.8	40.0	40.7	40.0	40.7	39.3	41.5	42.2	43.0	43.0	43.0
87.5°	13.0	13.9	13.6	14.5	14.2	15.2	15.0	13.9	14.0	15.9	13.8
90°	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5	13.9	14.5	15.6
92.5°	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2	35.9	31.8	28.9
95°	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5	131.2	102.6	83.3
97.5°	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5	386.4	317.1	252.8
100°	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9	590.3	527.4	451.0
102.5°	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2	682.8	646.1	597.7
105°	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9	752.6	762.9	748.9
107.5°	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5	743.9	790.9	810.0
110°	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0	715.0	782.8	820.4



TEST NUMBER: P332056-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1	677.1	753.1	801.4
115°	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1	616.6	695.7	754.2
117.5°	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7	565.4	636.4	695.9
120°	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5	537.1	601.5	655.9
122.5°	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6	514.3	574.0	624.4
125°	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3	486.0	537.6	580.6
127.5°	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9	461.2	507.7	546.9
130°	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3	445.6	489.2	525.8
132.5°	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5	431.0	471.6	506.4
135°	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0	410.2	445.2	475.8
137.5°	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8	390.1	420.2	446.8
140°	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1	378.4	404.3	427.3
142.5°	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7	367.3	389.6	409.7
145°	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9	352.7	369.9	385.5
147.5°	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7	341.8	355.7	366.7
150°	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5	334.9	346.2	356.5
152.5°	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8	328.5	338.5	346.9
155°	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8	319.3	327.4	333.8
157.5°	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2	310.4	316.7	321.7
160°	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9	304.8	310.2	314.0
162.5°	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8	298.8	303.8	307.1
165°	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1	290.3	294.1	296.7
167.5°	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3	283.7	285.9	287.9
170°	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4	279.0	281.2	282.2
172.5°	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0	275.1	276.8	277.5
175°	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4	269.8	271.0	271.0
177.5°	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5	266.8	267.3	267.3
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332056-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1462.0	1461.4	1465.6	1462.5	1465.6	1461.4	1462.0	1466.1	1467.4	1467.9	1467.9
5°	1360.7	1363.0	1355.6	1355.6	1355.6	1363.0	1360.7	1365.3	1368.9	1371.9	1376.3
7.5°	1270.7	1267.4	1267.7	1263.8	1267.7	1267.4	1270.7	1274.2	1279.0	1285.5	1291.6
10°	1215.6	1211.2	1209.7	1210.4	1209.7	1211.2	1215.6	1224.5	1227.5	1233.4	1240.0
12.5°	1170.0	1169.0	1159.3	1159.4	1159.3	1169.0	1170.0	1172.3	1178.8	1191.3	1199.1
15°	1116.3	1102.3	1100.8	1105.2	1100.8	1102.3	1116.3	1116.3	1119.3	1128.9	1133.4
17.5°	1062.5	1055.2	1055.6	1053.4	1055.6	1055.2	1062.5	1063.8	1066.1	1073.9	1079.9
20°	1034.1	1029.6	1028.9	1023.7	1028.9	1029.6	1034.1	1034.1	1037.1	1040.8	1046.7
22.5°	1008.0	1006.5	1007.0	1001.3	1007.0	1006.5	1008.0	1009.8	1012.8	1015.3	1019.5
25°	975.6	979.3	976.3	976.3	976.3	979.3	975.6	976.3	977.0	980.8	983.7
27.5°	953.7	953.5	952.1	952.1	952.1	953.5	953.7	951.9	951.0	949.7	949.0
30°	937.1	936.3	937.8	937.8	937.8	936.3	937.1	934.1	932.6	931.9	928.9
32.5°	920.5	921.5	921.8	922.4	921.8	921.5	920.5	916.9	914.3	912.3	909.9
35°	894.8	895.6	897.8	896.4	897.8	895.6	894.8	890.4	887.4	883.0	879.3
37.5°	860.2	863.6	862.8	864.0	862.8	863.6	860.2	858.8	855.9	852.4	848.2
40°	834.1	836.3	835.6	835.6	835.6	836.3	834.1	833.4	830.4	828.2	824.4
42.5°	807.5	809.1	807.1	806.0	807.1	809.1	807.5	806.1	804.4	800.3	796.1
45°	763.7	762.2	764.5	761.5	764.5	762.2	763.7	760.7	760.1	757.1	753.4
47.5°	714.8	716.3	716.9	719.2	716.9	716.3	714.8	715.1	711.0	709.2	708.0
50°	682.2	686.6	686.6	686.0	686.6	686.6	682.2	680.8	677.8	674.9	674.9
52.5°	650.3	652.3	655.3	655.2	655.3	652.3	650.3	647.6	644.6	640.5	639.3
55°	600.8	602.3	603.7	604.5	603.7	602.3	600.8	594.8	592.6	590.4	586.6
57.5°	549.5	548.9	552.4	553.5	552.4	548.9	549.5	544.1	540.7	534.0	533.0
60°	513.3	513.3	519.2	521.5	519.2	513.3	513.3	507.5	502.3	497.8	496.3
62.5°	474.9	477.2	483.1	480.0	483.1	477.2	474.9	468.3	464.3	458.6	454.9
65°	418.5	424.4	423.7	426.7	423.7	424.4	418.5	414.8	406.7	401.5	397.1
67.5°	359.7	363.4	368.7	369.2	368.7	363.4	359.7	353.8	348.5	343.0	337.6
70°	320.0	323.7	326.7	328.9	326.7	323.7	320.0	314.1	308.1	304.4	298.5
72.5°	281.5	283.4	290.5	287.4	290.5	283.4	281.5	274.4	269.7	266.6	260.0
75°	220.7	225.9	230.4	228.2	230.4	225.9	220.7	215.6	211.9	207.5	201.5
77.5°	163.2	168.4	170.5	168.6	170.5	168.4	163.2	159.9	158.0	149.2	148.6
80°	128.9	128.2	132.6	131.9	132.6	128.2	128.9	123.7	120.0	114.8	114.8
82.5°	94.5	93.8	95.9	96.3	95.9	93.8	94.5	91.7	86.8	84.6	82.8
85°	45.9	48.2	45.1	44.5	45.1	48.2	45.9	43.0	43.0	43.0	42.2
87.5°	13.7	13.8	13.3	12.6	13.3	13.8	13.7	13.8	15.9	14.0	13.9
90°	15.1	15.6	16.1	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5
92.5°	28.0	26.3	26.9	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2
95°	73.1	68.2	64.5	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5
97.5°	213.1	188.9	174.4	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5
100°	396.7	357.5	336.6	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9
102.5°	555.4	524.3	506.8	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2
105°	724.2	703.7	686.5	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9
107.5°	810.5	803.6	797.8	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5
110°	835.5	839.7	838.7	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	829.0	842.4	846.4	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1
115°	794.6	818.2	829.0	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1
117.5°	737.9	765.0	780.5	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7
120°	698.3	728.5	741.3	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5
122.5°	662.2	689.3	703.5	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6
125°	615.0	638.7	652.1	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3
127.5°	577.5	597.7	609.8	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9
130°	554.3	573.6	584.9	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3
132.5°	533.2	552.5	562.5	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5
135°	502.1	518.2	527.9	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0
137.5°	468.9	485.2	493.4	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8
140°	447.8	462.9	471.5	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1
142.5°	427.2	440.5	448.3	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7
145°	398.9	410.2	414.5	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9
147.5°	376.9	384.6	388.7	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7
150°	364.5	370.4	373.6	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5
152.5°	353.3	358.8	360.7	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8
155°	338.7	343.0	344.0	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8
157.5°	325.9	329.1	330.0	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2
160°	317.7	320.9	320.9	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9
162.5°	309.5	312.4	312.4	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8
165°	298.9	301.0	300.5	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1
167.5°	288.8	290.3	289.7	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3
170°	282.8	283.9	283.3	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4
172.5°	277.6	278.7	277.8	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0
175°	271.0	271.5	271.0	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4
177.5°	266.8	267.3	266.5	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332056-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1466.1	1466.1	1477.3	1484.5	1493.4	1499.3	1503.4	1507.6	1514.8	1524.2	1534.8
5°	1382.2	1385.3	1401.6	1417.9	1433.4	1446.7	1457.8	1471.1	1487.4	1507.4	1529.7
7.5°	1301.1	1312.5	1328.9	1348.8	1370.6	1390.0	1409.7	1431.6	1454.5	1484.0	1515.1
10°	1249.0	1261.5	1281.5	1306.7	1329.6	1352.6	1377.1	1400.8	1429.6	1464.5	1504.5
12.5°	1203.3	1215.3	1235.9	1263.5	1285.3	1310.6	1338.6	1369.4	1401.8	1443.8	1489.1
15°	1140.0	1154.1	1179.3	1192.6	1226.0	1256.3	1282.2	1326.7	1368.2	1411.2	1463.8
17.5°	1088.2	1096.0	1116.4	1141.2	1166.1	1200.1	1234.1	1271.1	1312.5	1365.1	1430.9
20°	1052.6	1059.3	1081.5	1107.5	1134.1	1165.3	1195.6	1232.7	1279.3	1334.8	1406.0
22.5°	1026.0	1033.2	1047.7	1075.4	1100.3	1126.1	1156.5	1200.6	1250.3	1304.7	1381.7
25°	987.4	991.8	1001.5	1023.7	1045.9	1074.9	1101.5	1143.0	1194.1	1257.8	1334.8
27.5°	950.8	955.2	963.2	979.1	999.8	1023.3	1052.3	1087.6	1139.4	1208.6	1290.4
30°	928.9	929.6	937.1	951.9	969.7	988.9	1015.6	1055.6	1104.5	1174.9	1260.7
32.5°	909.9	907.1	912.2	923.4	940.7	959.9	981.8	1021.2	1068.4	1137.6	1225.8
35°	877.8	876.3	874.1	883.7	898.5	913.3	932.6	962.2	1015.6	1080.1	1172.6
37.5°	845.1	841.5	837.5	842.0	853.5	868.9	885.6	912.0	958.0	1028.9	1117.5
40°	820.8	817.8	815.6	814.1	824.4	839.2	851.9	877.0	920.0	987.4	1074.9
42.5°	794.1	792.3	789.5	787.4	796.1	807.3	820.5	842.7	885.6	949.0	1031.6
45°	751.1	749.7	748.2	746.7	751.9	762.2	772.6	788.9	826.0	887.4	962.2
47.5°	703.3	701.3	701.9	699.6	704.6	711.6	718.9	736.3	771.8	821.5	876.2
50°	668.9	668.2	668.2	668.2	669.7	677.8	684.5	697.8	730.4	780.0	819.3
52.5°	636.3	633.2	633.2	634.4	637.1	642.2	646.6	661.1	689.5	730.3	765.9
55°	585.2	579.3	577.8	579.3	581.5	586.0	590.4	602.3	626.7	657.0	677.8
57.5°	528.6	525.4	523.4	523.7	524.9	528.5	531.9	544.8	564.0	579.9	593.2
60°	488.9	490.4	483.7	485.2	485.2	488.1	493.3	501.5	517.8	528.9	542.2
62.5°	451.6	449.5	447.6	445.5	445.5	446.7	453.6	460.1	473.9	479.8	490.1
65°	393.3	393.3	388.9	390.4	391.2	386.0	389.6	397.1	406.0	408.1	417.8
67.5°	334.4	332.3	329.8	327.5	327.5	327.2	329.0	332.7	339.4	340.2	347.6
70°	294.1	292.6	291.9	289.6	286.7	290.4	288.1	291.9	295.6	296.3	300.8
72.5°	255.0	253.4	252.1	250.0	248.7	248.3	248.5	252.8	255.2	254.2	259.3
75°	199.3	197.7	196.3	192.6	192.6	190.4	191.1	194.1	197.1	194.8	199.3
77.5°	146.4	141.8	141.5	142.5	140.0	140.4	139.6	139.1	140.4	140.6	144.6
80°	112.6	107.4	108.9	108.1	107.4	106.7	105.2	105.9	106.7	107.4	109.6
82.5°	81.2	80.8	79.3	79.1	78.4	76.4	75.6	76.9	77.7	77.2	78.8
85°	41.5	39.3	40.7	40.0	40.7	40.0	37.8	37.8	39.3	38.5	40.0
87.5°	15.0	15.2	14.2	14.5	13.6	13.9	13.0	13.4	13.7	13.5	14.4
90°	12.9	13.5	11.8	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0
92.5°	62.4	82.7	91.0	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7
95°	258.5	318.8	283.9	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3
97.5°	528.6	494.1	361.7	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2
100°	615.0	509.1	344.0	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8
102.5°	619.3	481.2	318.3	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8
105°	586.5	432.3	286.5	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4
107.5°	529.1	389.0	266.4	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7
110°	492.9	364.5	258.5	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	461.6	348.2	254.3	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5
115°	423.7	330.6	252.7	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2
117.5°	400.8	320.3	253.6	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9
120°	388.7	315.6	255.3	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4
122.5°	378.8	312.5	258.4	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5
125°	366.1	308.6	262.9	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3
127.5°	355.0	306.6	268.1	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1
130°	348.9	305.4	271.5	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8
132.5°	343.3	304.9	274.1	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0
135°	336.0	304.3	278.0	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6
137.5°	329.7	303.1	280.5	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6
140°	325.7	302.7	282.2	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4
142.5°	322.3	301.8	283.5	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5
145°	317.7	300.5	284.4	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8
147.5°	313.2	298.5	284.4	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2
150°	310.2	296.7	284.4	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8
152.5°	306.8	294.6	283.1	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4
155°	301.6	290.9	281.7	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8
157.5°	295.8	287.5	279.8	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4
160°	291.9	284.9	279.0	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6
162.5°	288.0	282.4	277.3	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5
165°	282.8	278.5	274.8	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3
167.5°	277.8	274.6	272.1	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7
170°	274.8	272.0	270.4	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3
172.5°	271.7	269.8	269.1	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0
175°	268.2	267.2	267.2	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0
177.5°	266.0	265.6	266.0	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P332056-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1538.4	1541.3	1551.4	1558.6	1566.9	1571.6	1576.3	1579.9	1584.6	1585.8	1603.0
5°	1545.2	1560.1	1586.0	1605.2	1628.9	1654.8	1672.6	1680.8	1702.2	1720.0	1755.6
7.5°	1543.3	1574.9	1614.0	1654.5	1698.1	1738.4	1773.4	1814.9	1844.4	1888.7	1932.4
10°	1541.5	1583.8	1634.1	1686.0	1746.7	1803.0	1853.4	1909.7	1956.3	2017.8	2070.4
12.5°	1536.2	1587.3	1657.3	1718.5	1792.3	1870.0	1944.7	2016.9	2058.3	2160.7	2209.1
15°	1523.1	1583.8	1671.1	1764.5	1866.0	1957.8	2052.7	2128.3	2250.4	2340.1	2397.1
17.5°	1497.8	1582.9	1686.6	1799.1	1922.6	2043.6	2151.1	2265.7	2395.4	2503.8	2619.3
20°	1486.0	1579.3	1694.9	1819.3	1947.5	2084.5	2206.8	2344.5	2486.1	2592.7	2740.8
22.5°	1464.1	1569.8	1694.3	1833.0	1970.0	2111.8	2254.8	2393.7	2557.1	2704.1	2845.2
25°	1428.2	1546.7	1675.7	1830.4	1991.2	2133.4	2304.5	2489.0	2659.4	2848.3	2989.0
27.5°	1390.5	1517.1	1646.2	1790.3	1963.1	2131.9	2347.2	2555.6	2763.9	2927.1	3031.2
30°	1361.5	1484.5	1617.9	1763.0	1934.1	2134.9	2375.6	2603.0	2806.0	2946.0	3004.5
32.5°	1330.1	1454.8	1572.8	1725.1	1907.4	2133.1	2393.4	2630.9	2808.4	2901.6	2890.2
35°	1280.8	1385.3	1500.1	1646.7	1861.5	2120.1	2403.8	2633.4	2742.3	2722.3	2571.2
37.5°	1209.7	1297.5	1410.6	1571.1	1808.2	2092.6	2383.0	2555.3	2548.3	2385.4	2166.4
40°	1165.3	1240.0	1349.0	1517.9	1766.7	2074.9	2350.4	2462.3	2367.5	2140.0	1877.8
42.5°	1107.1	1176.0	1285.0	1458.6	1721.1	2038.7	2288.2	2320.6	2135.1	1873.4	1633.0
45°	1017.1	1077.8	1190.4	1369.7	1652.7	1960.0	2136.4	2057.1	1807.4	1537.1	1354.2
47.5°	920.3	983.4	1091.7	1275.9	1553.7	1841.7	1925.7	1757.1	1500.8	1281.5	1113.5
50°	859.3	920.0	1026.0	1211.9	1486.7	1744.5	1779.3	1561.5	1326.0	1133.4	995.6
52.5°	797.7	854.9	959.0	1145.5	1408.5	1631.9	1610.4	1388.5	1171.9	1007.8	899.6
55°	706.0	760.1	859.3	1034.1	1273.4	1450.4	1372.6	1160.7	981.5	854.1	771.8
57.5°	623.9	675.7	761.4	919.3	1127.3	1249.0	1150.0	971.5	828.9	730.8	669.5
60°	568.2	614.1	695.6	842.3	1023.0	1115.6	1017.9	860.1	740.0	661.5	606.7
62.5°	515.4	555.4	630.9	764.0	921.1	998.8	899.8	766.4	664.2	594.6	548.0
65°	435.5	471.8	538.6	642.2	771.1	823.0	737.8	629.6	550.4	498.5	467.4
67.5°	362.7	393.5	451.1	532.7	627.5	665.3	600.5	516.8	457.0	415.4	390.7
70°	314.1	340.7	386.0	456.3	542.2	571.1	510.4	441.5	397.8	364.5	341.5
72.5°	273.1	292.8	333.8	388.1	459.9	482.9	440.5	379.8	339.1	314.1	295.9
75°	208.1	224.4	251.1	294.8	344.5	357.8	325.9	288.1	260.7	243.0	228.8
77.5°	150.1	162.1	181.3	208.3	242.7	254.7	234.5	209.3	189.4	177.3	169.5
80°	113.3	123.0	139.3	161.5	182.2	188.9	177.0	157.8	143.7	137.0	130.4
82.5°	83.7	89.2	99.0	114.0	128.3	136.2	126.1	114.5	107.0	100.9	98.4
85°	42.2	45.1	49.7	55.5	64.5	67.4	63.7	60.7	56.3	52.6	52.6
87.5°	15.8	16.0	18.2	19.5	22.1	24.2	23.9	23.1	22.8	22.1	21.7
90°	2.2	3.2	4.8	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5
92.5°	9.9	14.4	18.6	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2
95°	19.9	25.8	35.0	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5
97.5°	31.8	36.4	44.3	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5
100°	40.3	44.1	51.7	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9
102.5°	49.8	53.2	60.2	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2
105°	64.0	67.2	73.6	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9
107.5°	78.4	81.5	87.8	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5
110°	88.7	91.4	97.3	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	100.9	106.8	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1
115°	112.4	115.6	120.9	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1
117.5°	126.3	129.0	133.9	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7
120°	135.0	137.6	143.0	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5
122.5°	143.1	145.8	151.6	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6
125°	154.3	157.5	163.4	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3
127.5°	163.7	167.8	173.7	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9
130°	169.4	174.2	180.6	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3
132.5°	174.1	179.4	187.1	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5
135°	181.7	187.7	195.7	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0
137.5°	188.9	194.7	203.3	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8
140°	194.1	199.4	208.0	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1
142.5°	198.8	204.6	212.4	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7
145°	206.4	211.3	219.3	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9
147.5°	214.1	219.0	225.9	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7
150°	219.3	223.7	230.6	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5
152.5°	224.5	228.8	235.0	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8
155°	232.8	236.0	241.4	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8
157.5°	239.9	242.4	247.2	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2
160°	244.6	246.8	251.1	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9
162.5°	248.5	250.2	253.6	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8
165°	253.7	254.9	257.5	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1
167.5°	258.1	258.5	260.6	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3
170°	260.2	260.7	262.3	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4
172.5°	262.3	262.5	263.6	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0
175°	264.5	264.0	265.0	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4
177.5°	265.6	265.1	265.6	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1608.9	1609.5	1616.1	1620.8	1618.4	1621.4	1622.6
5°	1757.8	1784.5	1798.6	1808.9	1809.7	1810.4	1816.4
7.5°	1969.0	1997.5	2018.5	2050.1	2059.6	2070.4	2067.3
10°	2123.1	2165.2	2201.6	2220.8	2241.6	2271.9	2247.5
12.5°	2267.0	2341.8	2397.1	2427.0	2446.6	2452.7	2440.7
15°	2504.5	2602.3	2654.9	2653.4	2720.1	2749.0	2703.8
17.5°	2722.3	2812.5	2884.8	2921.9	2977.4	2989.7	2984.1
20°	2855.6	2954.2	3010.5	3074.2	3103.0	3129.0	3133.4
22.5°	2970.6	3059.0	3119.5	3172.5	3196.7	3209.0	3216.4
25°	3089.0	3158.6	3194.9	3213.4	3220.1	3218.6	3209.0
27.5°	3080.8	3086.2	3046.2	3006.9	2971.8	2932.2	2918.6
30°	3000.9	2938.6	2827.5	2764.6	2671.9	2598.6	2628.2
32.5°	2790.5	2666.6	2541.8	2404.2	2290.3	2257.9	2225.2
35°	2381.5	2163.8	2036.4	1888.2	1828.9	1769.7	1728.9
37.5°	1926.7	1758.3	1607.1	1510.2	1450.9	1413.3	1393.3
40°	1665.9	1514.1	1389.7	1311.2	1265.9	1223.7	1217.9
42.5°	1458.0	1316.8	1223.1	1160.6	1117.2	1099.3	1086.3
45°	1194.1	1095.6	1032.6	988.2	959.3	948.2	933.4
47.5°	1010.7	941.0	893.8	863.6	841.8	833.5	832.4
50°	908.1	850.4	815.6	791.8	774.9	771.8	760.1
52.5°	831.1	781.1	753.9	733.2	721.0	712.7	709.1
55°	721.5	688.2	663.7	651.9	642.2	634.0	634.0
57.5°	631.3	603.4	587.3	577.2	574.2	568.4	564.8
60°	575.6	551.9	539.3	530.4	524.4	525.2	518.5
62.5°	521.0	505.7	493.6	484.7	477.7	477.8	478.2
65°	443.7	431.9	423.0	420.0	415.6	410.4	411.9
67.5°	376.0	364.9	358.0	352.9	351.4	348.6	352.9
70°	327.4	319.2	314.1	309.6	308.1	308.9	312.6
72.5°	283.0	277.2	273.8	271.7	268.4	268.6	271.1
75°	222.3	217.8	214.8	212.6	211.9	211.9	211.9
77.5°	163.2	162.2	160.9	157.6	157.8	158.6	158.8
80°	128.9	126.7	125.9	124.4	122.2	120.7	124.4
82.5°	96.3	94.1	93.3	93.0	89.6	89.4	92.5
85°	51.8	49.7	50.3	49.7	49.7	48.9	48.9
87.5°	21.2	20.6	20.3	20.8	20.3	19.8	20.9
90°	13.9	14.5	15.6	15.1	15.6	16.1	15.6
92.5°	35.9	31.8	28.9	28.0	26.3	26.9	25.9
95°	131.2	102.6	83.3	73.1	68.2	64.5	62.4
97.5°	386.4	317.1	252.8	213.1	188.9	174.4	169.8
100°	590.3	527.4	451.0	396.7	357.5	336.6	337.1
102.5°	682.8	646.1	597.7	555.4	524.3	506.8	494.5
105°	752.6	762.9	748.9	724.2	703.7	686.5	683.8
107.5°	743.9	790.9	810.0	810.5	803.6	797.8	792.9
110°	715.0	782.8	820.4	835.5	839.7	838.7	837.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.1	753.1	801.4	829.0	842.4	846.4	846.6
115°	616.6	695.7	754.2	794.6	818.2	829.0	831.7
117.5°	565.4	636.4	695.9	737.9	765.0	780.5	784.1
120°	537.1	601.5	655.9	698.3	728.5	741.3	744.6
122.5°	514.3	574.0	624.4	662.2	689.3	703.5	707.6
125°	486.0	537.6	580.6	615.0	638.7	652.1	655.9
127.5°	461.2	507.7	546.9	577.5	597.7	609.8	613.3
130°	445.6	489.2	525.8	554.3	573.6	584.9	589.2
132.5°	431.0	471.6	506.4	533.2	552.5	562.5	565.5
135°	410.2	445.2	475.8	502.1	518.2	527.9	531.7
137.5°	390.1	420.2	446.8	468.9	485.2	493.4	495.9
140°	378.4	404.3	427.3	447.8	462.9	471.5	470.9
142.5°	367.3	389.6	409.7	427.2	440.5	448.3	447.7
145°	352.7	369.9	385.5	398.9	410.2	414.5	415.6
147.5°	341.8	355.7	366.7	376.9	384.6	388.7	389.1
150°	334.9	346.2	356.5	364.5	370.4	373.6	373.6
152.5°	328.5	338.5	346.9	353.3	358.8	360.7	360.7
155°	319.3	327.4	333.8	338.7	343.0	344.0	344.6
157.5°	310.4	316.7	321.7	325.9	329.1	330.0	329.9
160°	304.8	310.2	314.0	317.7	320.9	320.9	320.4
162.5°	298.8	303.8	307.1	309.5	312.4	312.4	311.8
165°	290.3	294.1	296.7	298.9	301.0	300.5	300.5
167.5°	283.7	285.9	287.9	288.8	290.3	289.7	289.7
170°	279.0	281.2	282.2	282.8	283.9	283.3	283.3
172.5°	275.1	276.8	277.5	277.6	278.7	277.8	277.3
175°	269.8	271.0	271.0	271.0	271.5	271.0	270.4
177.5°	266.8	267.3	267.3	266.8	267.3	266.5	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6

(END OF REPORT)