

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: P333216-930

Luminaire Tested: **S125DIP-S850D590U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333216-930
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-S850D590U930-4F0-1E-UDD-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 850 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4545.6 lumens
Efficiency: N/A
Efficacy: 112.8 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

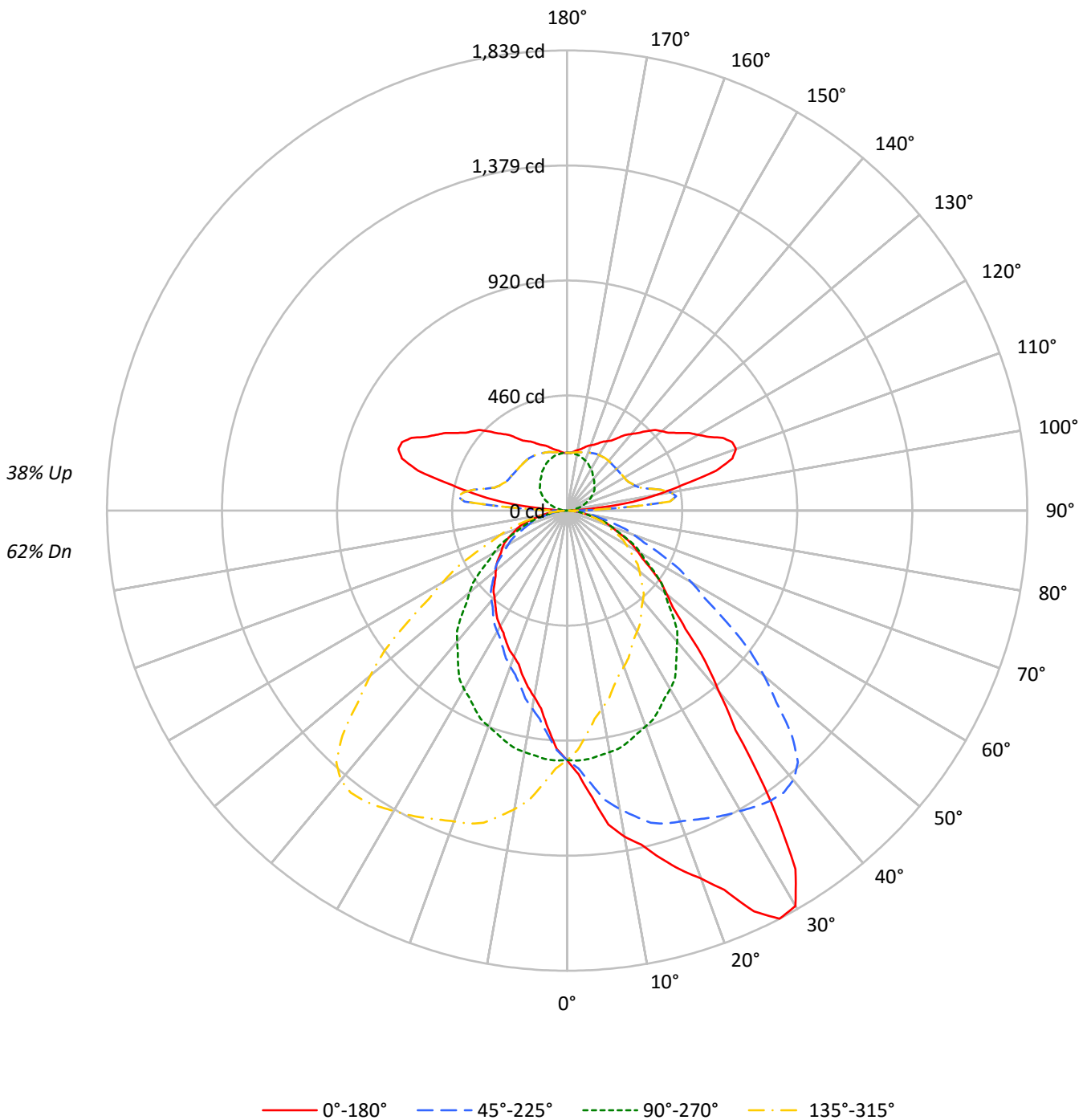
Input Watts (W): 40.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	75	67	61	78	70	64	58	62	57	53	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	44	39	44	39	35	38	34	32	29
6	65	53	45	39	61	50	43	37	45	39	34	39	35	31	35	31	28	25
7	60	48	40	34	57	45	38	33	41	35	30	36	31	27	32	28	25	22
8	56	44	36	30	53	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	24	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6442	6442	6442	6442
5°	7459	6463	5659	6463
10°	8679	6430	4958	6430
15°	9607	6383	4574	6383
20°	10754	6308	4265	6308
25°	12598	6223	4115	6223
30°	13607	6141	3985	6141
35°	11188	5984	3899	5984
40°	7952	5767	3805	5767
45°	6109	5476	3751	5476
50°	5215	5112	3743	5112
55°	4644	4757	3775	4757
60°	4188	4370	3871	4370
65°	3869	3978	3972	3978
70°	3518	3573	4030	3573
75°	3107	3147	3992	3147
80°	2615	2566	3652	2566
85°	2075	1845	2949	1845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	2.1
10°-20°	285.9	6.3
20°-30°	464.2	10.2
30°-40°	566.3	12.5
40°-50°	515.1	11.3
50°-60°	410.3	9.0
60°-70°	285.8	6.3
70°-80°	152.4	3.4
80°-90°	39.7	0.9
90°-100°	167.2	3.7
100°-110°	359.4	7.9
110°-120°	337.3	7.4
120°-130°	273.4	6.0
130°-140°	219.4	4.8
140°-150°	165.6	3.6
150°-160°	116.5	2.6
160°-170°	68.7	1.5
170°-180°	22.3	0.5
0°-30°	846.1	18.6
0°-40°	1412.4	31.1
0°-60°	2337.8	51.4
0°-90°	2815.8	61.9
90°-120°	864.0	19.0
90°-150°	1522.3	33.5
90°-180°	1730.0	38.1
0°-180°	4545.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	997	997	997	997	997	
5°	1151	997	873	997	1151	116
15°	1437	955	684	955	1437	411
25°	1768	873	578	873	1768	807
35°	1419	759	494	759	1419	868
45°	669	600	411	600	669	535
55°	412	422	335	422	412	371
65°	253	260	260	260	253	251
75°	124	126	160	126	124	134
85°	28	25	40	25	28	33
90°	11	0	11	0	11	8
95°	109	15	109	15	109	155
105°	616	53	616	53	616	613
115°	686	94	686	94	686	671
125°	541	130	541	130	541	489
135°	449	152	449	152	449	348
145°	354	178	354	178	354	225
155°	297	203	297	203	297	139
165°	260	221	260	221	260	74
175°	234	230	234	230	234	23
180°	231	231	231	231	231	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4
2.5°	1055.0	1053.6	1052.3	1049.5	1051.6	1045.9	1043.1	1038.4	1032.7	1030.6	1028.3
5°	1150.6	1152.8	1154.9	1146.0	1146.9	1140.9	1127.4	1116.4	1107.5	1096.1	1088.0
7.5°	1265.8	1260.8	1260.4	1254.7	1244.7	1236.8	1222.5	1204.4	1186.9	1166.9	1150.4
10°	1323.4	1323.8	1320.0	1313.2	1302.7	1295.0	1276.4	1258.6	1237.1	1211.6	1193.4
12.5°	1366.8	1368.5	1363.7	1354.5	1349.4	1332.3	1317.7	1296.6	1270.9	1250.6	1222.9
15°	1436.9	1432.2	1428.8	1417.4	1408.5	1390.7	1367.4	1345.4	1317.4	1291.6	1265.8
17.5°	1504.4	1508.1	1501.8	1491.3	1463.8	1443.0	1411.8	1381.6	1346.9	1312.2	1281.4
20°	1564.7	1568.1	1558.4	1540.2	1507.2	1486.4	1445.3	1406.4	1366.1	1321.7	1287.8
22.5°	1639.9	1637.2	1624.1	1596.4	1567.7	1529.4	1484.9	1437.5	1387.2	1336.9	1291.9
25°	1767.9	1750.1	1742.1	1707.8	1670.1	1613.8	1552.8	1483.4	1420.7	1354.3	1296.7
27.5°	1838.8	1833.3	1824.3	1800.4	1760.8	1700.6	1628.7	1544.1	1455.7	1371.8	1296.5
30°	1824.6	1825.5	1826.4	1818.7	1793.3	1748.0	1676.5	1585.4	1480.4	1386.0	1298.9
32.5°	1698.7	1714.1	1728.8	1746.2	1753.3	1744.7	1699.8	1617.6	1509.6	1402.3	1297.5
35°	1419.0	1423.8	1471.5	1519.0	1583.3	1633.3	1666.7	1630.4	1539.3	1416.1	1295.8
37.5°	1106.4	1129.4	1162.5	1216.0	1308.9	1392.0	1499.0	1548.2	1518.8	1420.6	1292.9
40°	943.2	964.4	985.9	1040.6	1118.9	1219.7	1341.2	1444.9	1469.0	1406.4	1282.7
42.5°	817.3	834.0	857.9	899.0	964.5	1053.7	1169.8	1305.4	1388.8	1365.1	1261.4
45°	668.9	679.5	698.1	730.7	778.1	848.0	950.4	1098.6	1227.7	1270.5	1210.8
47.5°	572.5	572.4	586.9	609.4	643.7	703.0	778.8	894.9	1032.8	1134.8	1130.1
50°	519.0	516.9	528.3	547.8	574.9	614.2	686.6	779.3	911.9	1027.4	1059.6
52.5°	473.0	473.2	480.2	494.6	517.3	551.0	605.0	688.6	801.8	920.5	981.0
55°	412.4	410.7	418.7	428.4	444.9	466.9	505.9	569.8	661.7	778.5	857.3
57.5°	356.8	361.4	364.7	371.5	385.1	399.9	432.8	479.6	552.5	652.8	736.1
60°	324.2	329.0	331.5	338.3	349.3	362.0	387.3	425.5	486.8	573.2	655.7
62.5°	295.1	298.8	299.6	305.7	314.7	327.1	347.1	379.0	427.5	503.1	584.0
65°	253.2	253.2	254.9	261.2	265.5	276.5	291.7	315.0	353.9	412.8	481.8
67.5°	212.7	214.7	214.3	217.1	221.0	229.5	240.4	259.7	288.5	331.5	386.7
70°	186.3	187.9	187.5	189.6	193.9	199.4	208.3	226.5	247.2	284.1	331.5
72.5°	162.6	163.2	162.2	164.9	167.5	172.3	182.2	191.9	211.3	242.4	281.4
75°	124.5	125.3	126.1	127.8	130.4	132.9	138.0	147.7	160.5	183.8	208.7
77.5°	93.3	91.7	93.8	93.5	94.9	96.9	101.3	106.5	116.9	131.7	151.0
80°	70.3	70.7	70.7	71.1	73.2	74.5	78.4	82.1	90.2	101.2	114.7
82.5°	51.3	52.4	51.8	52.5	54.3	55.2	57.3	60.4	65.1	73.8	83.6
85°	28.0	25.8	26.7	27.6	27.6	28.0	29.6	30.9	33.4	36.9	40.6
87.5°	10.3	10.9	11.2	11.2	11.5	11.3	12.6	12.5	13.5	14.3	15.5
90°	10.7	10.7	10.2	10.2	10.2	9.3	8.8	8.4	7.9	7.4	6.5
92.5°	29.7	30.4	31.1	32.2	38.2	45.0	59.8	82.4	121.4	149.9	152.4
95°	109.3	116.8	120.4	134.4	167.5	206.5	263.7	334.4	403.2	412.1	336.2
97.5°	264.2	270.1	283.6	309.7	338.3	392.7	448.4	498.0	510.2	440.0	300.3
100°	362.7	370.2	387.4	420.9	453.0	501.3	549.3	572.0	536.2	420.0	267.9
102.5°	472.9	478.5	497.2	521.0	555.3	588.0	611.0	597.0	520.6	384.6	243.3
105°	616.2	621.8	631.1	646.5	661.3	666.4	646.0	582.3	470.7	337.2	219.5
107.5°	692.3	696.0	699.1	699.2	691.6	667.4	614.8	529.8	419.7	304.5	209.5
110°	717.6	717.6	714.4	705.5	684.6	645.1	579.5	491.1	390.7	289.3	206.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	714.6	711.3	703.2	688.0	657.5	610.8	544.5	460.6	369.1	280.4	206.5
115°	686.5	680.4	667.4	645.1	608.8	558.1	494.4	422.2	345.5	270.7	207.9
117.5°	637.1	633.3	620.4	597.4	561.1	514.5	459.7	397.5	331.5	266.0	210.9
120°	605.0	601.4	588.8	566.5	532.1	491.1	439.9	384.2	323.7	263.7	213.9
122.5°	576.7	573.4	560.8	540.4	509.7	471.4	425.8	374.1	317.0	261.9	216.5
125°	540.9	536.2	526.0	507.0	480.9	447.4	406.9	359.5	307.9	259.5	220.9
127.5°	510.2	508.1	498.5	481.6	458.0	426.6	388.9	344.6	299.5	258.4	225.8
130°	493.4	490.6	481.4	466.0	442.7	412.5	376.3	335.3	293.9	257.6	228.9
132.5°	476.7	473.5	465.0	449.6	426.4	397.3	364.4	326.0	289.4	257.6	232.2
135°	449.2	446.5	438.1	422.7	402.3	375.8	346.0	313.9	284.1	257.6	236.7
137.5°	420.0	416.9	409.2	395.2	376.9	354.4	329.6	303.7	279.4	258.2	240.9
140°	399.5	397.1	390.2	378.1	360.9	341.4	320.0	298.1	277.2	258.6	242.8
142.5°	380.5	378.5	371.9	361.7	347.2	330.2	311.8	293.3	275.3	258.9	243.9
145°	354.4	352.5	347.4	339.5	328.3	315.8	301.3	287.0	272.6	258.6	245.1
147.5°	332.2	331.4	328.4	322.1	313.2	303.8	292.7	281.0	269.6	257.4	245.6
150°	320.0	319.5	317.6	312.1	305.1	296.7	287.9	277.6	267.4	256.2	245.6
152.5°	310.3	309.8	307.9	303.5	297.7	291.1	283.1	273.9	264.8	254.8	245.2
155°	297.2	296.7	295.3	292.0	287.4	282.3	275.8	268.3	260.4	252.1	244.2
157.5°	285.4	285.5	284.2	281.5	277.9	273.9	268.9	262.8	256.3	249.2	243.0
160°	277.6	278.1	277.2	274.8	271.6	268.3	263.7	259.0	253.0	247.4	241.8
162.5°	270.6	270.7	270.5	268.6	266.0	263.1	259.3	254.9	250.1	245.2	240.8
165°	260.4	260.4	260.4	259.5	257.6	255.4	252.5	249.2	245.6	241.8	239.0
167.5°	251.1	251.2	251.6	250.8	249.8	248.2	246.1	243.9	241.2	238.6	236.4
170°	245.6	246.1	246.1	245.6	244.6	243.7	242.3	240.9	238.6	236.7	235.3
172.5°	240.4	240.8	241.6	240.8	240.5	239.9	239.0	237.6	235.9	234.5	233.8
175°	233.9	234.4	235.3	234.9	234.9	234.9	233.9	233.9	232.5	232.0	232.0
177.5°	230.6	230.6	231.8	231.4	231.8	231.8	231.8	231.4	231.1	230.6	230.6
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4
2.5°	1026.2	1023.9	1021.1	1016.4	1010.6	1007.5	1002.8	999.8	993.7	988.6	983.2
5°	1078.2	1067.2	1057.1	1044.0	1029.6	1020.3	1009.3	996.9	984.3	971.2	956.8
7.5°	1132.2	1112.7	1091.5	1068.8	1046.5	1026.1	1006.5	987.2	969.3	947.6	929.3
10°	1168.4	1143.9	1117.6	1086.7	1056.7	1030.5	1003.8	980.5	956.8	931.4	908.9
12.5°	1204.7	1172.0	1134.9	1101.0	1064.8	1033.1	1001.8	972.0	942.2	914.1	887.9
15°	1230.3	1201.4	1167.2	1118.9	1078.2	1034.7	993.2	954.6	918.7	887.4	854.4
17.5°	1247.1	1210.0	1173.2	1126.9	1073.6	1024.8	977.9	933.8	893.2	853.5	821.7
20°	1250.2	1212.0	1173.5	1128.2	1073.6	1017.7	970.8	917.8	874.2	833.2	794.2
22.5°	1249.1	1206.0	1164.0	1117.4	1064.1	1012.7	955.9	901.9	854.6	814.2	773.6
25°	1239.6	1193.4	1140.9	1094.0	1041.5	986.8	929.3	873.3	825.1	778.9	738.7
27.5°	1231.6	1171.7	1112.3	1057.5	1006.8	956.8	901.6	844.4	790.9	744.1	706.2
30°	1221.8	1156.2	1089.2	1032.1	980.1	931.4	879.3	823.5	767.5	721.8	681.2
32.5°	1213.0	1136.5	1065.9	1003.7	948.5	901.2	853.2	800.1	745.2	698.8	658.1
35°	1196.0	1107.5	1026.6	956.3	897.5	848.8	808.6	759.0	708.7	663.8	624.8
37.5°	1174.4	1069.3	982.6	908.9	844.4	793.1	755.7	717.6	669.3	626.1	590.8
40°	1157.4	1042.3	950.4	875.1	808.2	754.8	720.2	684.1	643.9	603.7	566.5
42.5°	1136.1	1017.9	917.9	836.8	770.5	718.6	682.2	651.6	616.1	578.6	544.0
45°	1096.9	973.7	865.4	778.1	711.2	660.0	622.3	599.5	572.8	537.2	508.0
47.5°	1039.3	920.6	808.5	718.5	649.5	602.0	566.7	544.8	525.9	499.5	473.0
50°	988.1	881.0	767.5	678.2	609.2	561.3	528.8	508.8	492.8	472.5	450.0
52.5°	930.8	831.2	727.2	639.0	570.6	523.4	491.5	474.0	460.6	446.1	424.0
55°	839.9	755.3	658.8	574.9	511.8	465.7	437.7	422.5	411.5	400.5	386.9
57.5°	739.7	673.5	588.0	511.4	453.3	411.3	385.2	370.4	361.9	356.2	348.2
60°	669.3	612.6	538.9	469.0	412.4	375.1	349.7	338.3	331.1	326.4	320.5
62.5°	604.0	557.4	489.1	425.3	375.8	340.6	317.9	306.8	299.9	297.6	292.7
65°	507.6	471.7	415.3	362.4	320.1	290.0	270.9	260.3	256.1	253.6	254.0
67.5°	412.7	390.8	345.5	300.4	266.6	241.4	226.2	218.0	215.9	212.5	212.5
70°	354.7	338.3	300.2	260.8	230.7	211.2	197.7	189.2	187.1	185.4	185.0
72.5°	303.6	289.2	256.1	224.5	197.5	180.4	169.3	164.2	160.7	159.7	159.6
75°	228.2	220.1	193.9	168.9	150.3	138.4	130.9	126.1	123.6	123.2	123.6
77.5°	162.2	155.2	138.5	120.8	109.1	100.1	93.7	92.0	89.2	89.3	88.8
80°	121.9	117.2	106.7	92.7	83.0	75.3	72.0	69.0	68.2	66.9	68.2
82.5°	88.4	83.4	76.2	67.3	59.3	54.7	51.3	50.4	49.9	49.2	49.6
85°	43.6	44.0	39.8	33.0	29.6	27.1	24.9	24.9	24.5	24.1	24.5
87.5°	16.1	15.2	13.8	12.6	10.7	9.5	9.0	9.2	8.3	8.2	8.7
90°	6.0	5.1	4.6	3.8	2.8	1.9	0.9	0.5	0.9	1.9	2.8
92.5°	106.2	63.5	38.2	24.5	16.6	10.8	6.8	5.7	6.8	10.8	16.6
95°	207.9	105.6	55.8	34.9	24.6	19.6	15.8	15.3	15.8	19.6	24.6
97.5°	165.9	91.0	58.0	43.0	33.8	28.6	26.0	25.5	26.0	28.6	33.8
100°	150.7	90.3	63.3	49.3	40.4	35.4	33.5	32.5	33.5	35.4	40.4
102.5°	144.4	93.6	69.5	56.0	47.9	42.4	40.9	40.4	40.9	42.4	47.9
105°	141.9	100.4	80.0	66.9	59.5	54.9	52.6	52.6	52.6	54.9	59.5
107.5°	146.1	110.7	90.9	79.2	71.4	67.6	65.4	64.5	65.4	67.6	71.4
110°	150.2	118.1	99.1	87.0	80.0	75.8	73.9	73.1	73.9	75.8	80.0



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	155.4	125.2	106.9	95.1	88.2	84.0	82.5	81.6	82.5	84.0	88.2
115°	163.2	136.2	119.0	107.5	100.4	96.3	94.9	93.9	94.9	96.3	100.4
117.5°	172.2	147.7	131.3	120.1	112.2	108.0	106.5	105.1	106.5	108.0	112.2
120°	178.1	155.8	139.5	127.9	120.0	115.8	114.0	112.5	114.0	115.8	120.0
122.5°	184.8	163.6	147.3	135.7	127.0	122.9	121.4	120.3	121.4	122.9	127.0
125°	194.0	173.9	158.6	146.5	137.6	133.5	131.2	130.2	131.2	133.5	137.6
127.5°	202.3	183.8	169.1	157.0	147.7	142.4	139.3	137.9	139.3	142.4	147.7
130°	207.9	190.2	175.8	163.7	153.9	147.9	144.1	142.8	144.1	147.9	153.9
132.5°	212.7	196.2	181.7	169.7	159.6	152.7	148.3	146.5	148.3	152.7	159.6
135°	219.5	204.2	189.7	177.2	167.5	160.0	154.4	152.5	154.4	160.0	167.5
137.5°	224.5	209.9	196.7	183.8	174.2	166.8	161.6	160.2	161.6	166.8	174.2
140°	227.9	213.9	200.5	187.9	179.0	171.6	166.0	164.6	166.0	171.6	179.0
142.5°	229.8	216.5	203.8	192.0	183.5	176.1	170.9	169.8	170.9	176.1	183.5
145°	232.5	220.9	208.8	198.1	189.7	183.2	178.6	177.7	178.6	183.2	189.7
147.5°	234.2	223.7	213.1	203.7	196.4	190.4	186.4	185.8	186.4	190.4	196.4
150°	235.3	225.6	215.3	207.4	200.9	194.9	191.6	190.7	191.6	194.9	200.9
152.5°	236.0	227.4	217.9	210.8	204.6	199.3	196.4	195.9	196.4	199.3	204.6
155°	236.7	229.3	221.4	214.8	210.2	205.5	202.8	202.8	202.8	205.5	210.2
157.5°	237.2	230.9	224.0	219.2	215.1	211.1	208.8	208.9	208.8	211.1	215.1
160°	237.2	231.6	225.6	221.4	217.7	214.4	212.5	213.0	212.5	214.4	217.7
162.5°	236.8	232.4	227.1	223.6	220.6	217.8	215.9	216.4	215.9	217.8	220.6
165°	236.3	232.5	228.9	226.0	224.1	221.8	220.5	221.4	220.5	221.8	224.1
167.5°	235.1	232.5	229.4	227.7	226.4	225.1	224.3	224.7	224.3	225.1	226.4
170°	234.4	232.5	230.2	228.9	227.9	227.0	226.5	227.0	226.5	227.0	227.9
172.5°	233.7	232.2	230.2	229.6	229.0	228.0	227.6	228.4	227.6	228.0	229.0
175°	232.5	231.6	230.2	230.2	230.2	229.8	229.3	230.2	229.3	229.8	230.2
177.5°	231.4	231.1	230.3	230.3	230.6	230.3	230.3	231.1	230.3	230.3	230.6
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4
2.5°	980.2	976.4	973.4	966.6	962.9	957.8	953.7	958.1	953.4	955.4	952.4
5°	949.6	937.8	929.3	917.0	906.4	896.7	889.5	888.2	884.8	883.1	878.0
7.5°	912.8	898.0	883.5	867.4	853.8	840.0	831.2	823.9	819.1	812.8	808.5
10°	891.1	871.2	854.4	834.9	817.9	803.1	791.2	785.3	779.8	771.8	768.8
12.5°	864.4	843.8	823.1	802.3	786.1	769.6	759.4	750.4	746.7	737.5	736.6
15°	832.3	801.4	781.1	759.9	737.4	723.9	715.4	705.7	701.5	695.1	690.5
17.5°	794.0	766.5	741.0	719.1	699.9	688.4	677.9	671.2	664.0	659.8	652.2
20°	766.3	740.0	714.6	691.3	676.5	663.4	654.9	648.6	641.0	638.9	631.2
22.5°	742.9	714.0	689.6	670.0	653.8	639.0	629.8	625.6	620.3	613.8	612.2
25°	704.9	674.8	654.1	634.6	620.2	606.7	600.3	594.8	589.7	585.1	583.3
27.5°	672.1	645.1	620.5	602.9	590.4	578.0	572.4	565.7	562.1	558.3	553.8
30°	649.0	621.5	599.9	582.9	569.4	558.4	552.4	547.8	544.5	541.0	538.5
32.5°	625.3	599.8	578.9	562.3	548.8	540.5	535.2	531.9	528.2	524.1	520.9
35°	593.9	566.0	545.7	531.3	520.7	514.4	508.4	505.5	501.2	501.2	497.8
37.5°	558.6	534.5	516.6	503.4	494.0	488.3	481.8	479.8	477.1	475.3	474.2
40°	537.7	515.2	498.3	485.2	475.0	470.3	465.3	461.9	460.2	458.0	457.2
42.5°	516.0	494.6	478.3	466.2	457.4	453.4	448.7	446.3	442.9	440.1	439.6
45°	483.1	462.3	447.5	437.7	430.2	425.5	422.5	417.4	415.7	412.4	411.9
47.5°	451.8	431.9	417.4	409.4	402.7	398.8	394.2	389.1	387.2	385.5	385.3
50°	428.4	410.3	396.6	389.1	382.7	377.2	372.5	369.2	367.9	367.9	368.8
52.5°	404.7	389.2	377.7	368.4	362.4	356.5	352.2	350.2	348.2	350.3	351.8
55°	370.0	354.3	345.8	337.0	331.1	324.2	322.2	321.3	320.1	323.4	325.1
57.5°	333.3	322.3	312.3	303.5	298.2	294.3	291.5	290.9	293.3	294.9	300.4
60°	309.9	297.2	288.3	281.5	275.2	272.6	271.8	270.9	272.6	277.3	284.5
62.5°	284.1	273.9	264.2	259.2	254.5	250.3	250.1	250.6	254.0	259.3	266.5
65°	246.4	237.5	231.1	225.2	221.4	218.9	219.7	221.4	225.2	232.4	240.4
67.5°	208.1	201.9	196.2	191.4	187.8	187.8	188.7	191.2	195.7	204.0	211.3
70°	183.3	176.5	171.9	169.7	166.8	165.1	167.6	171.9	175.7	183.3	189.6
72.5°	158.6	152.9	149.2	147.7	146.5	145.1	145.9	150.5	155.7	163.3	170.7
75°	121.9	119.8	117.2	115.6	114.3	115.1	116.0	120.3	124.5	132.5	141.0
77.5°	88.9	86.7	85.3	84.9	84.1	84.5	87.0	90.1	94.2	100.1	106.5
80°	67.3	66.4	65.6	65.2	65.2	65.6	69.0	71.1	74.9	80.5	85.5
82.5°	49.0	48.5	48.3	48.3	48.6	48.7	50.7	53.5	56.7	60.8	65.2
85°	25.8	24.9	26.3	26.7	25.8	27.1	28.0	29.6	30.9	33.0	35.1
87.5°	9.2	10.1	9.9	10.4	10.4	11.3	11.1	12.5	13.3	14.0	13.9
90°	3.8	4.6	5.1	6.0	6.5	7.4	7.9	8.4	8.8	9.3	10.2
92.5°	24.5	38.2	63.5	106.2	152.4	149.9	121.4	82.4	59.8	45.0	38.2
95°	34.9	55.8	105.6	207.9	336.2	412.1	403.2	334.4	263.7	206.5	167.5
97.5°	43.0	58.0	91.0	165.9	300.3	440.0	510.2	498.0	448.4	392.7	338.3
100°	49.3	63.3	90.3	150.7	267.9	420.0	536.2	572.0	549.3	501.3	453.0
102.5°	56.0	69.5	93.6	144.4	243.3	384.6	520.6	597.0	611.0	588.0	555.3
105°	66.9	80.0	100.4	141.9	219.5	337.2	470.7	582.3	646.0	666.4	661.3
107.5°	79.2	90.9	110.7	146.1	209.5	304.5	419.7	529.8	614.8	667.4	691.6
110°	87.0	99.1	118.1	150.2	206.5	289.3	390.7	491.1	579.5	645.1	684.6



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	95.1	106.9	125.2	155.4	206.5	280.4	369.1	460.6	544.5	610.8	657.5
115°	107.5	119.0	136.2	163.2	207.9	270.7	345.5	422.2	494.4	558.1	608.8
117.5°	120.1	131.3	147.7	172.2	210.9	266.0	331.5	397.5	459.7	514.5	561.1
120°	127.9	139.5	155.8	178.1	213.9	263.7	323.7	384.2	439.9	491.1	532.1
122.5°	135.7	147.3	163.6	184.8	216.5	261.9	317.0	374.1	425.8	471.4	509.7
125°	146.5	158.6	173.9	194.0	220.9	259.5	307.9	359.5	406.9	447.4	480.9
127.5°	157.0	169.1	183.8	202.3	225.8	258.4	299.5	344.6	388.9	426.6	458.0
130°	163.7	175.8	190.2	207.9	228.9	257.6	293.9	335.3	376.3	412.5	442.7
132.5°	169.7	181.7	196.2	212.7	232.2	257.6	289.4	326.0	364.4	397.3	426.4
135°	177.2	189.7	204.2	219.5	236.7	257.6	284.1	313.9	346.0	375.8	402.3
137.5°	183.8	196.7	209.9	224.5	240.9	258.2	279.4	303.7	329.6	354.4	376.9
140°	187.9	200.5	213.9	227.9	242.8	258.6	277.2	298.1	320.0	341.4	360.9
142.5°	192.0	203.8	216.5	229.8	243.9	258.9	275.3	293.3	311.8	330.2	347.2
145°	198.1	208.8	220.9	232.5	245.1	258.6	272.6	287.0	301.3	315.8	328.3
147.5°	203.7	213.1	223.7	234.2	245.6	257.4	269.6	281.0	292.7	303.8	313.2
150°	207.4	215.3	225.6	235.3	245.6	256.2	267.4	277.6	287.9	296.7	305.1
152.5°	210.8	217.9	227.4	236.0	245.2	254.8	264.8	273.9	283.1	291.1	297.7
155°	214.8	221.4	229.3	236.7	244.2	252.1	260.4	268.3	275.8	282.3	287.4
157.5°	219.2	224.0	230.9	237.2	243.0	249.2	256.3	262.8	268.9	273.9	277.9
160°	221.4	225.6	231.6	237.2	241.8	247.4	253.0	259.0	263.7	268.3	271.6
162.5°	223.6	227.1	232.4	236.8	240.8	245.2	250.1	254.9	259.3	263.1	266.0
165°	226.0	228.9	232.5	236.3	239.0	241.8	245.6	249.2	252.5	255.4	257.6
167.5°	227.7	229.4	232.5	235.1	236.4	238.6	241.2	243.9	246.1	248.2	249.8
170°	228.9	230.2	232.5	234.4	235.3	236.7	238.6	240.9	242.3	243.7	244.6
172.5°	229.6	230.2	232.2	233.7	233.8	234.5	235.9	237.6	239.0	239.9	240.5
175°	230.2	230.2	231.6	232.5	232.0	232.0	232.5	233.9	233.9	234.9	234.9
177.5°	230.3	230.3	231.1	231.4	230.6	230.6	231.1	231.4	231.8	231.8	231.8
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4
2.5°	950.3	952.7	950.6	953.4	950.6	952.7	950.3	952.4	955.4	953.4	958.1
5°	875.9	872.1	874.7	872.9	874.7	872.1	875.9	878.0	883.1	884.8	888.2
7.5°	807.1	803.5	799.4	797.4	799.4	803.5	807.1	808.5	812.8	819.1	823.9
10°	764.2	759.5	759.0	756.1	759.0	759.5	764.2	768.8	771.8	779.8	785.3
12.5°	732.6	728.3	723.5	722.3	723.5	728.3	732.6	736.6	737.5	746.7	750.4
15°	687.9	684.5	681.6	684.1	681.6	684.5	687.9	690.5	695.1	701.5	705.7
17.5°	650.8	648.0	647.4	644.3	647.4	648.0	650.8	652.2	659.8	664.0	671.2
20°	627.4	625.3	626.1	620.6	626.1	625.3	627.4	631.2	638.9	641.0	648.6
22.5°	608.8	604.6	604.1	603.0	604.1	604.6	608.8	612.2	613.8	620.3	625.6
25°	579.6	577.5	575.4	577.5	575.4	577.5	579.6	583.3	585.1	589.7	594.8
27.5°	554.1	551.5	551.0	551.2	551.0	551.5	554.1	553.8	558.3	562.1	565.7
30°	538.5	534.3	534.7	534.3	534.7	534.3	538.5	538.5	541.0	544.5	547.8
32.5°	521.5	518.7	518.1	517.3	518.1	518.7	521.5	520.9	524.1	528.2	531.9
35°	496.6	496.6	494.5	494.5	494.5	496.6	496.6	497.8	501.2	501.2	505.5
37.5°	473.1	472.7	471.4	471.7	471.4	472.7	473.1	474.2	475.3	477.1	479.8
40°	455.5	455.1	453.8	451.3	453.8	455.1	455.5	457.2	458.0	460.2	461.9
42.5°	438.5	437.2	436.6	435.7	436.6	437.2	438.5	439.6	440.1	442.9	446.3
45°	411.9	411.9	411.1	410.7	411.1	411.9	411.9	411.9	412.4	415.7	417.4
47.5°	386.0	386.8	388.4	388.2	388.4	386.8	386.0	385.3	385.5	387.2	389.1
50°	370.4	370.9	372.1	372.5	372.1	370.9	370.4	368.8	367.9	367.9	369.2
52.5°	353.2	355.6	357.2	356.9	357.2	355.6	353.2	351.8	350.3	348.2	350.2
55°	329.0	331.9	334.8	335.3	334.8	331.9	329.0	325.1	323.4	320.1	321.3
57.5°	305.0	309.2	312.3	313.2	312.3	309.2	305.0	300.4	294.9	293.3	290.9
60°	288.7	294.2	298.1	299.7	298.1	294.2	288.7	284.5	277.3	272.6	270.9
62.5°	273.1	279.3	283.2	283.5	283.2	279.3	273.1	266.5	259.3	254.0	250.6
65°	247.7	254.0	257.4	259.9	257.4	254.0	247.7	240.4	232.4	225.2	221.4
67.5°	220.2	226.6	230.3	232.4	230.3	226.6	220.2	211.3	204.0	195.7	191.2
70°	200.2	206.6	211.7	213.4	211.7	206.6	200.2	189.6	183.3	175.7	171.9
72.5°	180.6	186.3	190.4	192.3	190.4	186.3	180.6	170.7	163.3	155.7	150.5
75°	146.5	154.1	157.9	160.0	157.9	154.1	146.5	141.0	132.5	124.5	120.3
77.5°	112.9	119.9	122.2	123.3	122.2	119.9	112.9	106.5	100.1	94.2	90.1
80°	90.6	94.8	97.8	98.2	97.8	94.8	90.6	85.5	80.5	74.9	71.1
82.5°	69.6	73.1	74.1	75.2	74.1	73.1	69.6	65.2	60.8	56.7	53.5
85°	38.1	39.8	40.2	39.8	40.2	39.8	38.1	35.1	33.0	30.9	29.6
87.5°	14.6	14.3	14.3	15.0	14.3	14.3	14.6	13.9	14.0	13.3	12.5
90°	10.2	10.2	10.7	10.7	10.7	10.2	10.2	10.2	9.3	8.8	8.4
92.5°	32.2	31.1	30.4	29.7	30.4	31.1	32.2	38.2	45.0	59.8	82.4
95°	134.4	120.4	116.8	109.3	116.8	120.4	134.4	167.5	206.5	263.7	334.4
97.5°	309.7	283.6	270.1	264.2	270.1	283.6	309.7	338.3	392.7	448.4	498.0
100°	420.9	387.4	370.2	362.7	370.2	387.4	420.9	453.0	501.3	549.3	572.0
102.5°	521.0	497.2	478.5	472.9	478.5	497.2	521.0	555.3	588.0	611.0	597.0
105°	646.5	631.1	621.8	616.2	621.8	631.1	646.5	661.3	666.4	646.0	582.3
107.5°	699.2	699.1	696.0	692.3	696.0	699.1	699.2	691.6	667.4	614.8	529.8
110°	705.5	714.4	717.6	717.6	717.6	714.4	705.5	684.6	645.1	579.5	491.1



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	688.0	703.2	711.3	714.6	711.3	703.2	688.0	657.5	610.8	544.5	460.6
115°	645.1	667.4	680.4	686.5	680.4	667.4	645.1	608.8	558.1	494.4	422.2
117.5°	597.4	620.4	633.3	637.1	633.3	620.4	597.4	561.1	514.5	459.7	397.5
120°	566.5	588.8	601.4	605.0	601.4	588.8	566.5	532.1	491.1	439.9	384.2
122.5°	540.4	560.8	573.4	576.7	573.4	560.8	540.4	509.7	471.4	425.8	374.1
125°	507.0	526.0	536.2	540.9	536.2	526.0	507.0	480.9	447.4	406.9	359.5
127.5°	481.6	498.5	508.1	510.2	508.1	498.5	481.6	458.0	426.6	388.9	344.6
130°	466.0	481.4	490.6	493.4	490.6	481.4	466.0	442.7	412.5	376.3	335.3
132.5°	449.6	465.0	473.5	476.7	473.5	465.0	449.6	426.4	397.3	364.4	326.0
135°	422.7	438.1	446.5	449.2	446.5	438.1	422.7	402.3	375.8	346.0	313.9
137.5°	395.2	409.2	416.9	420.0	416.9	409.2	395.2	376.9	354.4	329.6	303.7
140°	378.1	390.2	397.1	399.5	397.1	390.2	378.1	360.9	341.4	320.0	298.1
142.5°	361.7	371.9	378.5	380.5	378.5	371.9	361.7	347.2	330.2	311.8	293.3
145°	339.5	347.4	352.5	354.4	352.5	347.4	339.5	328.3	315.8	301.3	287.0
147.5°	322.1	328.4	331.4	332.2	331.4	328.4	322.1	313.2	303.8	292.7	281.0
150°	312.1	317.6	319.5	320.0	319.5	317.6	312.1	305.1	296.7	287.9	277.6
152.5°	303.5	307.9	309.8	310.3	309.8	307.9	303.5	297.7	291.1	283.1	273.9
155°	292.0	295.3	296.7	297.2	296.7	295.3	292.0	287.4	282.3	275.8	268.3
157.5°	281.5	284.2	285.5	285.4	285.5	284.2	281.5	277.9	273.9	268.9	262.8
160°	274.8	277.2	278.1	277.6	278.1	277.2	274.8	271.6	268.3	263.7	259.0
162.5°	268.6	270.5	270.7	270.6	270.7	270.5	268.6	266.0	263.1	259.3	254.9
165°	259.5	260.4	260.4	260.4	260.4	260.4	259.5	257.6	255.4	252.5	249.2
167.5°	250.8	251.6	251.2	251.1	251.2	251.6	250.8	249.8	248.2	246.1	243.9
170°	245.6	246.1	246.1	245.6	246.1	246.1	245.6	244.6	243.7	242.3	240.9
172.5°	240.8	241.6	240.8	240.4	240.8	241.6	240.8	240.5	239.9	239.0	237.6
175°	234.9	235.3	234.4	233.9	234.4	235.3	234.9	234.9	234.9	233.9	233.9
177.5°	231.4	231.8	230.6	230.6	230.6	231.8	231.4	231.8	231.8	231.8	231.4
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4
2.5°	953.7	957.8	962.9	966.6	973.4	976.4	980.2	983.2	988.6	993.7	999.8
5°	889.5	896.7	906.4	917.0	929.3	937.8	949.6	956.8	971.2	984.3	996.9
7.5°	831.2	840.0	853.8	867.4	883.5	898.0	912.8	929.3	947.6	969.3	987.2
10°	791.2	803.1	817.9	834.9	854.4	871.2	891.1	908.9	931.4	956.8	980.5
12.5°	759.4	769.6	786.1	802.3	823.1	843.8	864.4	887.9	914.1	942.2	972.0
15°	715.4	723.9	737.4	759.9	781.1	801.4	832.3	854.4	887.4	918.7	954.6
17.5°	677.9	688.4	699.9	719.1	741.0	766.5	794.0	821.7	853.5	893.2	933.8
20°	654.9	663.4	676.5	691.3	714.6	740.0	766.3	794.2	833.2	874.2	917.8
22.5°	629.8	639.0	653.8	670.0	689.6	714.0	742.9	773.6	814.2	854.6	901.9
25°	600.3	606.7	620.2	634.6	654.1	674.8	704.9	738.7	778.9	825.1	873.3
27.5°	572.4	578.0	590.4	602.9	620.5	645.1	672.1	706.2	744.1	790.9	844.4
30°	552.4	558.4	569.4	582.9	599.9	621.5	649.0	681.2	721.8	767.5	823.5
32.5°	535.2	540.5	548.8	562.3	578.9	599.8	625.3	658.1	698.8	745.2	800.1
35°	508.4	514.4	520.7	531.3	545.7	566.0	593.9	624.8	663.8	708.7	759.0
37.5°	481.8	488.3	494.0	503.4	516.6	534.5	558.6	590.8	626.1	669.3	717.6
40°	465.3	470.3	475.0	485.2	498.3	515.2	537.7	566.5	603.7	643.9	684.1
42.5°	448.7	453.4	457.4	466.2	478.3	494.6	516.0	544.0	578.6	616.1	651.6
45°	422.5	425.5	430.2	437.7	447.5	462.3	483.1	508.0	537.2	572.8	599.5
47.5°	394.2	398.8	402.7	409.4	417.4	431.9	451.8	473.0	499.5	525.9	544.8
50°	372.5	377.2	382.7	389.1	396.6	410.3	428.4	450.0	472.5	492.8	508.8
52.5°	352.2	356.5	362.4	368.4	377.7	389.2	404.7	424.0	446.1	460.6	474.0
55°	322.2	324.2	331.1	337.0	345.8	354.3	370.0	386.9	400.5	411.5	422.5
57.5°	291.5	294.3	298.2	303.5	312.3	322.3	333.3	348.2	356.2	361.9	370.4
60°	271.8	272.6	275.2	281.5	288.3	297.2	309.9	320.5	326.4	331.1	338.3
62.5°	250.1	250.3	254.5	259.2	264.2	273.9	284.1	292.7	297.6	299.9	306.8
65°	219.7	218.9	221.4	225.2	231.1	237.5	246.4	254.0	253.6	256.1	260.3
67.5°	188.7	187.8	187.8	191.4	196.2	201.9	208.1	212.5	212.5	215.9	218.0
70°	167.6	165.1	166.8	169.7	171.9	176.5	183.3	185.0	185.4	187.1	189.2
72.5°	145.9	145.1	146.5	147.7	149.2	152.9	158.6	159.6	159.7	160.7	164.2
75°	116.0	115.1	114.3	115.6	117.2	119.8	121.9	123.6	123.2	123.6	126.1
77.5°	87.0	84.5	84.1	84.9	85.3	86.7	88.9	88.8	89.3	89.2	92.0
80°	69.0	65.6	65.2	65.2	65.6	66.4	67.3	68.2	66.9	68.2	69.0
82.5°	50.7	48.7	48.6	48.3	48.3	48.5	49.0	49.6	49.2	49.9	50.4
85°	28.0	27.1	25.8	26.7	26.3	24.9	25.8	24.5	24.1	24.5	24.9
87.5°	11.1	11.3	10.4	10.4	9.9	10.1	9.2	8.7	8.2	8.3	9.2
90°	7.9	7.4	6.5	6.0	5.1	4.6	3.8	2.8	1.9	0.9	0.5
92.5°	121.4	149.9	152.4	106.2	63.5	38.2	24.5	16.6	10.8	6.8	5.7
95°	403.2	412.1	336.2	207.9	105.6	55.8	34.9	24.6	19.6	15.8	15.3
97.5°	510.2	440.0	300.3	165.9	91.0	58.0	43.0	33.8	28.6	26.0	25.5
100°	536.2	420.0	267.9	150.7	90.3	63.3	49.3	40.4	35.4	33.5	32.5
102.5°	520.6	384.6	243.3	144.4	93.6	69.5	56.0	47.9	42.4	40.9	40.4
105°	470.7	337.2	219.5	141.9	100.4	80.0	66.9	59.5	54.9	52.6	52.6
107.5°	419.7	304.5	209.5	146.1	110.7	90.9	79.2	71.4	67.6	65.4	64.5
110°	390.7	289.3	206.5	150.2	118.1	99.1	87.0	80.0	75.8	73.9	73.1



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.1	280.4	206.5	155.4	125.2	106.9	95.1	88.2	84.0	82.5	81.6
115°	345.5	270.7	207.9	163.2	136.2	119.0	107.5	100.4	96.3	94.9	93.9
117.5°	331.5	266.0	210.9	172.2	147.7	131.3	120.1	112.2	108.0	106.5	105.1
120°	323.7	263.7	213.9	178.1	155.8	139.5	127.9	120.0	115.8	114.0	112.5
122.5°	317.0	261.9	216.5	184.8	163.6	147.3	135.7	127.0	122.9	121.4	120.3
125°	307.9	259.5	220.9	194.0	173.9	158.6	146.5	137.6	133.5	131.2	130.2
127.5°	299.5	258.4	225.8	202.3	183.8	169.1	157.0	147.7	142.4	139.3	137.9
130°	293.9	257.6	228.9	207.9	190.2	175.8	163.7	153.9	147.9	144.1	142.8
132.5°	289.4	257.6	232.2	212.7	196.2	181.7	169.7	159.6	152.7	148.3	146.5
135°	284.1	257.6	236.7	219.5	204.2	189.7	177.2	167.5	160.0	154.4	152.5
137.5°	279.4	258.2	240.9	224.5	209.9	196.7	183.8	174.2	166.8	161.6	160.2
140°	277.2	258.6	242.8	227.9	213.9	200.5	187.9	179.0	171.6	166.0	164.6
142.5°	275.3	258.9	243.9	229.8	216.5	203.8	192.0	183.5	176.1	170.9	169.8
145°	272.6	258.6	245.1	232.5	220.9	208.8	198.1	189.7	183.2	178.6	177.7
147.5°	269.6	257.4	245.6	234.2	223.7	213.1	203.7	196.4	190.4	186.4	185.8
150°	267.4	256.2	245.6	235.3	225.6	215.3	207.4	200.9	194.9	191.6	190.7
152.5°	264.8	254.8	245.2	236.0	227.4	217.9	210.8	204.6	199.3	196.4	195.9
155°	260.4	252.1	244.2	236.7	229.3	221.4	214.8	210.2	205.5	202.8	202.8
157.5°	256.3	249.2	243.0	237.2	230.9	224.0	219.2	215.1	211.1	208.8	208.9
160°	253.0	247.4	241.8	237.2	231.6	225.6	221.4	217.7	214.4	212.5	213.0
162.5°	250.1	245.2	240.8	236.8	232.4	227.1	223.6	220.6	217.8	215.9	216.4
165°	245.6	241.8	239.0	236.3	232.5	228.9	226.0	224.1	221.8	220.5	221.4
167.5°	241.2	238.6	236.4	235.1	232.5	229.4	227.7	226.4	225.1	224.3	224.7
170°	238.6	236.7	235.3	234.4	232.5	230.2	228.9	227.9	227.0	226.5	227.0
172.5°	235.9	234.5	233.8	233.7	232.2	230.2	229.6	229.0	228.0	227.6	228.4
175°	232.5	232.0	232.0	232.5	231.6	230.2	230.2	230.2	229.8	229.3	230.2
177.5°	231.1	230.6	230.6	231.4	231.1	230.3	230.3	230.6	230.3	230.3	231.1
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4	997.4
2.5°	1002.8	1007.5	1010.6	1016.4	1021.1	1023.9	1026.2	1028.3	1030.6	1032.7	1038.4
5°	1009.3	1020.3	1029.6	1044.0	1057.1	1067.2	1078.2	1088.0	1096.1	1107.5	1116.4
7.5°	1006.5	1026.1	1046.5	1068.8	1091.5	1112.7	1132.2	1150.4	1166.9	1186.9	1204.4
10°	1003.8	1030.5	1056.7	1086.7	1117.6	1143.9	1168.4	1193.4	1211.6	1237.1	1258.6
12.5°	1001.8	1033.1	1064.8	1101.0	1134.9	1172.0	1204.7	1222.9	1250.6	1270.9	1296.6
15°	993.2	1034.7	1078.2	1118.9	1167.2	1201.4	1230.3	1265.8	1291.6	1317.4	1345.4
17.5°	977.9	1024.8	1073.6	1126.9	1173.2	1210.0	1247.1	1281.4	1312.2	1346.9	1381.6
20°	970.8	1017.7	1073.6	1128.2	1173.5	1212.0	1250.2	1287.8	1321.7	1366.1	1406.4
22.5°	955.9	1012.7	1064.1	1117.4	1164.0	1206.0	1249.1	1291.9	1336.9	1387.2	1437.5
25°	929.3	986.8	1041.5	1094.0	1140.9	1193.4	1239.6	1296.7	1354.3	1420.7	1483.4
27.5°	901.6	956.8	1006.8	1057.5	1112.3	1171.7	1231.6	1296.5	1371.8	1455.7	1544.1
30°	879.3	931.4	980.1	1032.1	1089.2	1156.2	1221.8	1298.9	1386.0	1480.4	1585.4
32.5°	853.2	901.2	948.5	1003.7	1065.9	1136.5	1213.0	1297.5	1402.3	1509.6	1617.6
35°	808.6	848.8	897.5	956.3	1026.6	1107.5	1196.0	1295.8	1416.1	1539.3	1630.4
37.5°	755.7	793.1	844.4	908.9	982.6	1069.3	1174.4	1292.9	1420.6	1518.8	1548.2
40°	720.2	754.8	808.2	875.1	950.4	1042.3	1157.4	1282.7	1406.4	1469.0	1444.9
42.5°	682.2	718.6	770.5	836.8	917.9	1017.9	1136.1	1261.4	1365.1	1388.8	1305.4
45°	622.3	660.0	711.2	778.1	865.4	973.7	1096.9	1210.8	1270.5	1227.7	1098.6
47.5°	566.7	602.0	649.5	718.5	808.5	920.6	1039.3	1130.1	1134.8	1032.8	894.9
50°	528.8	561.3	609.2	678.2	767.5	881.0	988.1	1059.6	1027.4	911.9	779.3
52.5°	491.5	523.4	570.6	639.0	727.2	831.2	930.8	981.0	920.5	801.8	688.6
55°	437.7	465.7	511.8	574.9	658.8	755.3	839.9	857.3	778.5	661.7	569.8
57.5°	385.2	411.3	453.3	511.4	588.0	673.5	739.7	736.1	652.8	552.5	479.6
60°	349.7	375.1	412.4	469.0	538.9	612.6	669.3	655.7	573.2	486.8	425.5
62.5°	317.9	340.6	375.8	425.3	489.1	557.4	604.0	584.0	503.1	427.5	379.0
65°	270.9	290.0	320.1	362.4	415.3	471.7	507.6	481.8	412.8	353.9	315.0
67.5°	226.2	241.4	266.6	300.4	345.5	390.8	412.7	386.7	331.5	288.5	259.7
70°	197.7	211.2	230.7	260.8	300.2	338.3	354.7	331.5	284.1	247.2	226.5
72.5°	169.3	180.4	197.5	224.5	256.1	289.2	303.6	281.4	242.4	211.3	191.9
75°	130.9	138.4	150.3	168.9	193.9	220.1	228.2	208.7	183.8	160.5	147.7
77.5°	93.7	100.1	109.1	120.8	138.5	155.2	162.2	151.0	131.7	116.9	106.5
80°	72.0	75.3	83.0	92.7	106.7	117.2	121.9	114.7	101.2	90.2	82.1
82.5°	51.3	54.7	59.3	67.3	76.2	83.4	88.4	83.6	73.8	65.1	60.4
85°	24.9	27.1	29.6	33.0	39.8	44.0	43.6	40.6	36.9	33.4	30.9
87.5°	9.0	9.5	10.7	12.6	13.8	15.2	16.1	15.5	14.3	13.5	12.5
90°	0.9	1.9	2.8	3.8	4.6	5.1	6.0	6.5	7.4	7.9	8.4
92.5°	6.8	10.8	16.6	24.5	38.2	63.5	106.2	152.4	149.9	121.4	82.4
95°	15.8	19.6	24.6	34.9	55.8	105.6	207.9	336.2	412.1	403.2	334.4
97.5°	26.0	28.6	33.8	43.0	58.0	91.0	165.9	300.3	440.0	510.2	498.0
100°	33.5	35.4	40.4	49.3	63.3	90.3	150.7	267.9	420.0	536.2	572.0
102.5°	40.9	42.4	47.9	56.0	69.5	93.6	144.4	243.3	384.6	520.6	597.0
105°	52.6	54.9	59.5	66.9	80.0	100.4	141.9	219.5	337.2	470.7	582.3
107.5°	65.4	67.6	71.4	79.2	90.9	110.7	146.1	209.5	304.5	419.7	529.8
110°	73.9	75.8	80.0	87.0	99.1	118.1	150.2	206.5	289.3	390.7	491.1



TEST NUMBER: P333216-930

CATALOG NUMBER: S125DIP-S850D590U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.5	84.0	88.2	95.1	106.9	125.2	155.4	206.5	280.4	369.1	460.6
115°	94.9	96.3	100.4	107.5	119.0	136.2	163.2	207.9	270.7	345.5	422.2
117.5°	106.5	108.0	112.2	120.1	131.3	147.7	172.2	210.9	266.0	331.5	397.5
120°	114.0	115.8	120.0	127.9	139.5	155.8	178.1	213.9	263.7	323.7	384.2
122.5°	121.4	122.9	127.0	135.7	147.3	163.6	184.8	216.5	261.9	317.0	374.1
125°	131.2	133.5	137.6	146.5	158.6	173.9	194.0	220.9	259.5	307.9	359.5
127.5°	139.3	142.4	147.7	157.0	169.1	183.8	202.3	225.8	258.4	299.5	344.6
130°	144.1	147.9	153.9	163.7	175.8	190.2	207.9	228.9	257.6	293.9	335.3
132.5°	148.3	152.7	159.6	169.7	181.7	196.2	212.7	232.2	257.6	289.4	326.0
135°	154.4	160.0	167.5	177.2	189.7	204.2	219.5	236.7	257.6	284.1	313.9
137.5°	161.6	166.8	174.2	183.8	196.7	209.9	224.5	240.9	258.2	279.4	303.7
140°	166.0	171.6	179.0	187.9	200.5	213.9	227.9	242.8	258.6	277.2	298.1
142.5°	170.9	176.1	183.5	192.0	203.8	216.5	229.8	243.9	258.9	275.3	293.3
145°	178.6	183.2	189.7	198.1	208.8	220.9	232.5	245.1	258.6	272.6	287.0
147.5°	186.4	190.4	196.4	203.7	213.1	223.7	234.2	245.6	257.4	269.6	281.0
150°	191.6	194.9	200.9	207.4	215.3	225.6	235.3	245.6	256.2	267.4	277.6
152.5°	196.4	199.3	204.6	210.8	217.9	227.4	236.0	245.2	254.8	264.8	273.9
155°	202.8	205.5	210.2	214.8	221.4	229.3	236.7	244.2	252.1	260.4	268.3
157.5°	208.8	211.1	215.1	219.2	224.0	230.9	237.2	243.0	249.2	256.3	262.8
160°	212.5	214.4	217.7	221.4	225.6	231.6	237.2	241.8	247.4	253.0	259.0
162.5°	215.9	217.8	220.6	223.6	227.1	232.4	236.8	240.8	245.2	250.1	254.9
165°	220.5	221.8	224.1	226.0	228.9	232.5	236.3	239.0	241.8	245.6	249.2
167.5°	224.3	225.1	226.4	227.7	229.4	232.5	235.1	236.4	238.6	241.2	243.9
170°	226.5	227.0	227.9	228.9	230.2	232.5	234.4	235.3	236.7	238.6	240.9
172.5°	227.6	228.0	229.0	229.6	230.2	232.2	233.7	233.8	234.5	235.9	237.6
175°	229.3	229.8	230.2	230.2	230.2	231.6	232.5	232.0	232.0	232.5	233.9
177.5°	230.3	230.3	230.6	230.3	230.3	231.1	231.4	230.6	230.6	231.1	231.4
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	997.4	997.4	997.4	997.4	997.4	997.4	997.4
2.5°	1043.1	1045.9	1051.6	1049.5	1052.3	1053.6	1055.0
5°	1127.4	1140.9	1146.9	1146.0	1154.9	1152.8	1150.6
7.5°	1222.5	1236.8	1244.7	1254.7	1260.4	1260.8	1265.8
10°	1276.4	1295.0	1302.7	1313.2	1320.0	1323.8	1323.4
12.5°	1317.7	1332.3	1349.4	1354.5	1363.7	1368.5	1366.8
15°	1367.4	1390.7	1408.5	1417.4	1428.8	1432.2	1436.9
17.5°	1411.8	1443.0	1463.8	1491.3	1501.8	1508.1	1504.4
20°	1445.3	1486.4	1507.2	1540.2	1558.4	1568.1	1564.7
22.5°	1484.9	1529.4	1567.7	1596.4	1624.1	1637.2	1639.9
25°	1552.8	1613.8	1670.1	1707.8	1742.1	1750.1	1767.9
27.5°	1628.7	1700.6	1760.8	1800.4	1824.3	1833.3	1838.8
30°	1676.5	1748.0	1793.3	1818.7	1826.4	1825.5	1824.6
32.5°	1699.8	1744.7	1753.3	1746.2	1728.8	1714.1	1698.7
35°	1666.7	1633.3	1583.3	1519.0	1471.5	1423.8	1419.0
37.5°	1499.0	1392.0	1308.9	1216.0	1162.5	1129.4	1106.4
40°	1341.2	1219.7	1118.9	1040.6	985.9	964.4	943.2
42.5°	1169.8	1053.7	964.5	899.0	857.9	834.0	817.3
45°	950.4	848.0	778.1	730.7	698.1	679.5	668.9
47.5°	778.8	703.0	643.7	609.4	586.9	572.4	572.5
50°	686.6	614.2	574.9	547.8	528.3	516.9	519.0
52.5°	605.0	551.0	517.3	494.6	480.2	473.2	473.0
55°	505.9	466.9	444.9	428.4	418.7	410.7	412.4
57.5°	432.8	399.9	385.1	371.5	364.7	361.4	356.8
60°	387.3	362.0	349.3	338.3	331.5	329.0	324.2
62.5°	347.1	327.1	314.7	305.7	299.6	298.8	295.1
65°	291.7	276.5	265.5	261.2	254.9	253.2	253.2
67.5°	240.4	229.5	221.0	217.1	214.3	214.7	212.7
70°	208.3	199.4	193.9	189.6	187.5	187.9	186.3
72.5°	182.2	172.3	167.5	164.9	162.2	163.2	162.6
75°	138.0	132.9	130.4	127.8	126.1	125.3	124.5
77.5°	101.3	96.9	94.9	93.5	93.8	91.7	93.3
80°	78.4	74.5	73.2	71.1	70.7	70.7	70.3
82.5°	57.3	55.2	54.3	52.5	51.8	52.4	51.3
85°	29.6	28.0	27.6	27.6	26.7	25.8	28.0
87.5°	12.6	11.3	11.5	11.2	11.2	10.9	10.3
90°	8.8	9.3	10.2	10.2	10.2	10.7	10.7
92.5°	59.8	45.0	38.2	32.2	31.1	30.4	29.7
95°	263.7	206.5	167.5	134.4	120.4	116.8	109.3
97.5°	448.4	392.7	338.3	309.7	283.6	270.1	264.2
100°	549.3	501.3	453.0	420.9	387.4	370.2	362.7
102.5°	611.0	588.0	555.3	521.0	497.2	478.5	472.9
105°	646.0	666.4	661.3	646.5	631.1	621.8	616.2
107.5°	614.8	667.4	691.6	699.2	699.1	696.0	692.3
110°	579.5	645.1	684.6	705.5	714.4	717.6	717.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	544.5	610.8	657.5	688.0	703.2	711.3	714.6
115°	494.4	558.1	608.8	645.1	667.4	680.4	686.5
117.5°	459.7	514.5	561.1	597.4	620.4	633.3	637.1
120°	439.9	491.1	532.1	566.5	588.8	601.4	605.0
122.5°	425.8	471.4	509.7	540.4	560.8	573.4	576.7
125°	406.9	447.4	480.9	507.0	526.0	536.2	540.9
127.5°	388.9	426.6	458.0	481.6	498.5	508.1	510.2
130°	376.3	412.5	442.7	466.0	481.4	490.6	493.4
132.5°	364.4	397.3	426.4	449.6	465.0	473.5	476.7
135°	346.0	375.8	402.3	422.7	438.1	446.5	449.2
137.5°	329.6	354.4	376.9	395.2	409.2	416.9	420.0
140°	320.0	341.4	360.9	378.1	390.2	397.1	399.5
142.5°	311.8	330.2	347.2	361.7	371.9	378.5	380.5
145°	301.3	315.8	328.3	339.5	347.4	352.5	354.4
147.5°	292.7	303.8	313.2	322.1	328.4	331.4	332.2
150°	287.9	296.7	305.1	312.1	317.6	319.5	320.0
152.5°	283.1	291.1	297.7	303.5	307.9	309.8	310.3
155°	275.8	282.3	287.4	292.0	295.3	296.7	297.2
157.5°	268.9	273.9	277.9	281.5	284.2	285.5	285.4
160°	263.7	268.3	271.6	274.8	277.2	278.1	277.6
162.5°	259.3	263.1	266.0	268.6	270.5	270.7	270.6
165°	252.5	255.4	257.6	259.5	260.4	260.4	260.4
167.5°	246.1	248.2	249.8	250.8	251.6	251.2	251.1
170°	242.3	243.7	244.6	245.6	246.1	246.1	245.6
172.5°	239.0	239.9	240.5	240.8	241.6	240.8	240.4
175°	233.9	234.9	234.9	234.9	235.3	234.4	233.9
177.5°	231.8	231.8	231.8	231.4	231.8	230.6	230.6
180°	230.6	230.6	230.6	230.6	230.6	230.6	230.6

(END OF REPORT)