

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: P333215-830

Luminaire Tested: **S125DIP-S850D590U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333215-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S850D590U830-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 850 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.3 lumens
Efficiency: N/A
Efficacy: 128.6 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

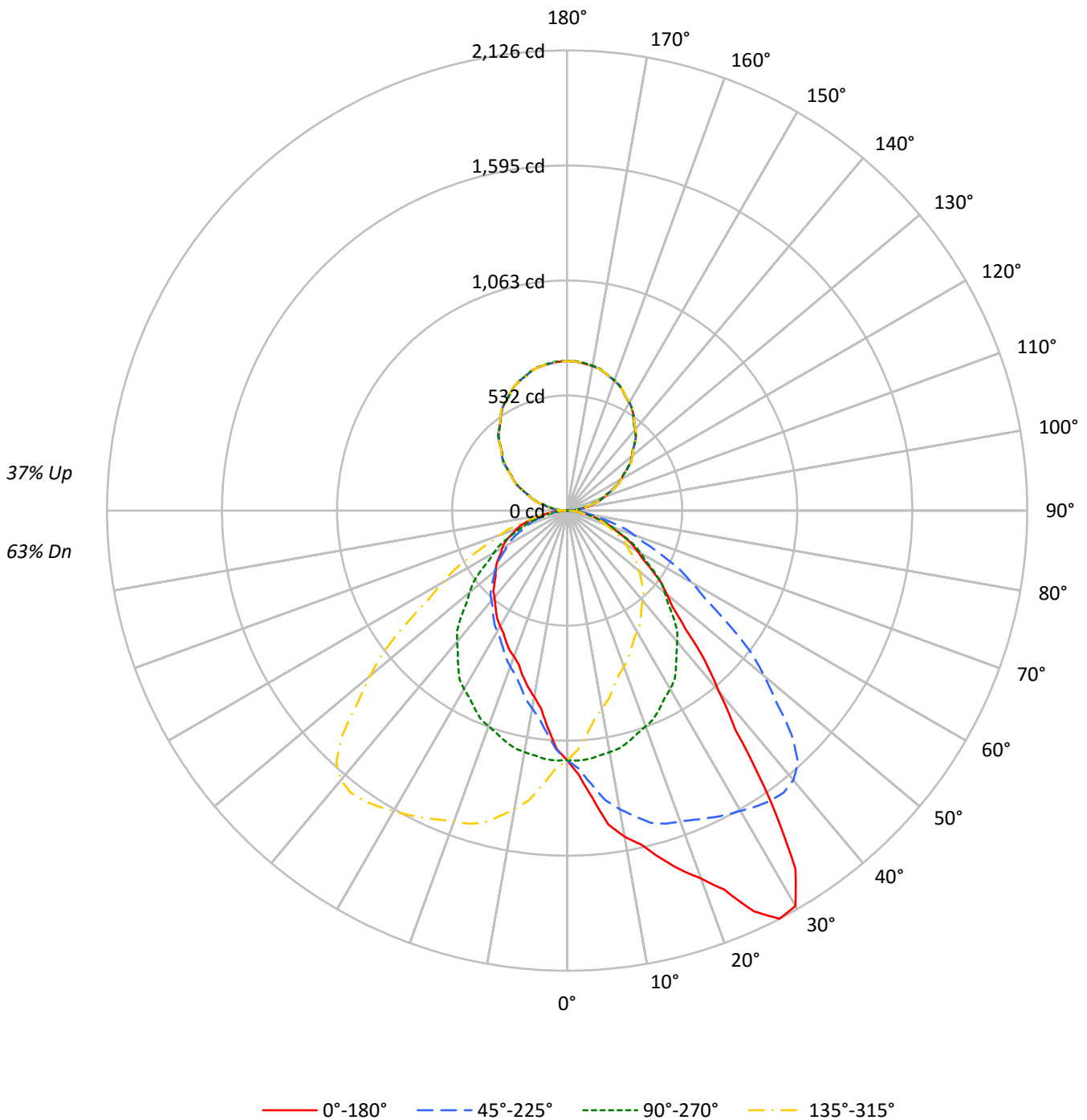
Input Watts (W): 40.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

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	79	79	79	68	68	68	63
1	101	97	93	89	95	91	87	84	80	77	75	70	68	66	60	59	58	53
2	92	85	79	73	86	80	74	70	70	66	63	62	58	56	54	51	49	45
3	84	75	67	61	79	70	64	59	62	57	53	55	51	47	48	45	42	39
4	77	66	58	52	72	63	55	50	55	50	45	49	44	41	43	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	39	35	32	29
6	65	53	45	39	61	50	43	38	45	39	34	40	35	31	35	31	28	25
7	61	48	40	34	57	46	38	33	41	35	30	36	31	28	32	28	25	23
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7447	7447	7447	7447
5°	8624	7472	6543	7472
10°	10033	7433	5732	7433
15°	11106	7379	5288	7379
20°	12432	7292	4931	7292
25°	14564	7195	4757	7195
30°	15731	7099	4606	7099
35°	12934	6918	4507	6918
40°	9193	6668	4398	6668
45°	7063	6330	4337	6330
50°	6028	5910	4326	5910
55°	5368	5499	4365	5499
60°	4841	5052	4476	5052
65°	4473	4600	4592	4600
70°	4067	4132	4658	4132
75°	3591	3638	4616	3638
80°	3020	2964	4225	2964
85°	2393	2134	3409	2134



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	2.1
10°-20°	330.5	6.4
20°-30°	536.7	10.4
30°-40°	654.6	12.6
40°-50°	595.5	11.5
50°-60°	474.4	9.2
60°-70°	330.4	6.4
70°-80°	176.2	3.4
80°-90°	46.0	0.9
90°-100°	46.3	0.9
100°-110°	136.7	2.6
110°-120°	231.5	4.5
120°-130°	304.6	5.9
130°-140°	341.3	6.6
140°-150°	334.5	6.5
150°-160°	281.0	5.4
160°-170°	186.8	3.6
170°-180°	65.4	1.3
0°-30°	978.2	18.9
0°-40°	1632.8	31.5
0°-60°	2702.7	52.1
0°-90°	3255.3	62.8
90°-120°	414.4	8.0
90°-150°	1394.9	26.9
90°-180°	1928.0	37.2
0°-180°	5183.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1330	1152	1009	1152	1330	134
15°	1661	1104	791	1104	1661	476
25°	2044	1010	668	1010	2044	934
35°	1640	878	572	878	1640	1004
45°	773	693	475	693	773	619
55°	477	488	388	488	477	429
65°	293	301	300	301	293	290
75°	144	146	185	146	144	155
85°	32	29	46	29	32	38
90°	13	1	13	1	13	9
95°	46	35	46	35	46	47
105°	133	123	133	123	133	141
115°	234	232	234	232	234	231
125°	340	338	340	338	340	304
135°	442	440	442	440	442	341
145°	535	533	535	533	535	334
155°	610	610	610	610	610	281
165°	661	663	661	663	661	186
175°	687	689	687	689	687	65
180°	691	691	691	691	691	



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1219.7	1218.0	1216.5	1213.3	1215.7	1209.1	1205.9	1200.4	1193.8	1191.5	1188.7
5°	1330.2	1332.7	1335.1	1324.8	1325.9	1319.0	1303.3	1290.6	1280.3	1267.2	1257.8
7.5°	1463.4	1457.5	1457.1	1450.5	1439.0	1429.8	1413.3	1392.4	1372.2	1349.1	1329.9
10°	1529.9	1530.4	1526.0	1518.2	1506.0	1497.1	1475.6	1455.0	1430.1	1400.7	1379.7
12.5°	1580.1	1582.1	1576.5	1565.9	1560.0	1540.2	1523.3	1498.9	1469.2	1445.8	1413.7
15°	1661.1	1655.7	1651.8	1638.6	1628.3	1607.8	1580.8	1555.4	1523.1	1493.2	1463.4
17.5°	1739.2	1743.5	1736.2	1724.1	1692.2	1668.2	1632.1	1597.2	1557.1	1517.0	1481.4
20°	1808.9	1812.8	1801.6	1780.6	1742.4	1718.3	1670.8	1625.9	1579.3	1528.0	1488.8
22.5°	1895.8	1892.7	1877.5	1845.5	1812.4	1768.1	1716.7	1661.9	1603.6	1545.6	1493.6
25°	2043.8	2023.3	2013.9	1974.3	1930.8	1865.7	1795.2	1715.0	1642.5	1565.7	1499.1
27.5°	2125.8	2119.4	2109.0	2081.4	2035.6	1966.0	1882.9	1785.1	1682.9	1585.9	1498.8
30°	2109.4	2110.4	2111.4	2102.5	2073.2	2020.8	1938.2	1832.9	1711.5	1602.3	1501.6
32.5°	1963.8	1981.6	1998.6	2018.7	2026.9	2016.9	1965.1	1870.1	1745.2	1621.2	1500.0
35°	1640.5	1646.0	1701.2	1756.1	1830.4	1888.2	1926.8	1884.8	1779.5	1637.1	1498.1
37.5°	1279.1	1305.6	1343.9	1405.8	1513.2	1609.3	1733.0	1789.8	1755.9	1642.3	1494.7
40°	1090.4	1114.9	1139.8	1203.0	1293.5	1410.0	1550.5	1670.4	1698.3	1625.9	1482.9
42.5°	944.8	964.1	991.8	1039.3	1115.0	1218.1	1352.4	1509.1	1605.5	1578.1	1458.3
45°	773.3	785.5	807.1	844.7	899.6	980.3	1098.7	1270.1	1419.3	1468.8	1399.8
47.5°	661.9	661.8	678.5	704.6	744.1	812.8	900.3	1034.5	1194.0	1311.9	1306.5
50°	600.0	597.6	610.8	633.3	664.6	710.1	793.8	901.0	1054.2	1187.8	1225.0
52.5°	546.8	547.1	555.2	571.8	598.0	637.0	699.5	796.1	927.0	1064.1	1134.2
55°	476.7	474.8	484.0	495.3	514.3	539.8	584.8	658.7	765.0	900.0	991.1
57.5°	412.5	417.8	421.6	429.4	445.3	462.3	500.3	554.5	638.8	754.7	850.9
60°	374.8	380.3	383.2	391.1	403.8	418.5	447.8	491.9	562.8	662.7	758.1
62.5°	341.2	345.4	346.4	353.5	363.8	378.1	401.2	438.2	494.3	581.6	675.1
65°	292.7	292.7	294.6	302.0	306.9	319.6	337.2	364.1	409.2	477.2	556.9
67.5°	245.9	248.3	247.7	251.0	255.5	265.3	278.0	300.2	333.6	383.2	447.0
70°	215.4	217.3	216.8	219.2	224.1	230.5	240.8	261.8	285.8	328.4	383.2
72.5°	187.9	188.7	187.5	190.7	193.6	199.2	210.7	221.9	244.3	280.2	325.3
75°	143.9	144.9	145.8	147.8	150.7	153.6	159.6	170.8	185.5	212.4	241.3
77.5°	107.8	106.0	108.4	108.1	109.7	112.0	117.2	123.1	135.2	152.2	174.6
80°	81.2	81.7	81.7	82.2	84.6	86.1	90.6	94.9	104.2	117.0	132.6
82.5°	59.3	60.6	59.9	60.7	62.8	63.8	66.3	69.8	75.3	85.3	96.6
85°	32.3	29.9	30.8	31.9	31.9	32.3	34.2	35.7	38.6	42.6	46.9
87.5°	12.0	12.7	13.0	12.9	13.3	13.2	14.6	14.5	15.6	16.6	18.0
90°	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8	9.2	8.6	7.7
92.5°	25.4	25.1	24.9	24.6	24.3	23.8	23.0	22.2	21.4	20.6	19.6
95°	46.3	46.0	45.8	45.5	45.2	44.8	43.9	43.1	42.2	41.4	40.2
97.5°	70.1	69.9	69.8	69.7	69.6	69.1	68.3	67.5	66.7	65.9	64.3
100°	88.2	87.9	87.8	87.5	87.2	86.5	85.5	84.5	83.3	82.3	80.7
102.5°	106.2	105.9	105.6	105.3	104.9	104.2	103.0	101.8	100.7	99.4	98.7
105°	133.4	133.0	132.6	132.2	132.0	131.4	130.6	130.0	129.2	128.5	127.8
107.5°	161.1	161.1	161.2	161.2	161.2	161.0	160.7	160.3	159.9	159.6	159.0
110°	181.7	181.8	182.0	182.1	182.2	182.1	181.7	181.3	181.1	180.7	180.3



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	202.0	202.2	202.4	202.6	202.8	202.8	202.6	202.6	202.4	202.2	201.7
115°	233.9	234.0	234.1	234.2	234.4	234.5	234.6	234.7	234.9	235.0	234.7
117.5°	265.0	265.6	266.1	266.6	267.0	267.2	267.1	267.0	266.9	266.8	266.6
120°	286.6	287.1	287.6	288.0	288.5	288.7	288.7	288.7	288.7	288.7	288.6
122.5°	308.1	308.5	308.9	309.2	309.6	309.9	310.0	310.1	310.2	310.3	309.9
125°	340.4	340.4	340.6	340.7	340.8	341.0	341.3	341.5	341.8	342.0	341.9
127.5°	371.4	371.6	371.8	372.0	372.3	372.5	372.6	372.7	372.9	373.0	372.8
130°	392.0	392.2	392.5	392.7	392.9	393.1	393.2	393.3	393.5	393.6	393.3
132.5°	411.3	411.7	412.0	412.4	412.6	412.9	413.0	413.1	413.3	413.4	413.4
135°	441.5	442.0	442.4	442.9	443.4	443.6	443.6	443.6	443.6	443.6	443.5
137.5°	470.9	471.6	472.1	472.7	473.3	473.5	473.3	473.3	473.1	473.0	472.7
140°	489.8	490.4	491.1	491.6	492.2	492.4	492.2	491.9	491.7	491.4	491.1
142.5°	507.9	508.5	509.1	509.7	510.3	510.5	510.4	510.2	510.1	509.9	509.5
145°	535.0	535.4	535.7	536.1	536.4	536.6	536.6	536.6	536.6	536.6	536.3
147.5°	558.2	558.9	559.8	560.5	561.4	561.7	561.4	561.1	560.8	560.5	560.2
150°	575.3	575.6	575.8	576.1	576.3	576.4	576.4	576.4	576.4	576.4	575.9
152.5°	589.6	589.9	590.4	590.8	591.3	591.4	591.1	590.8	590.5	590.2	589.9
155°	609.7	610.3	611.0	611.5	612.2	612.2	611.7	611.2	610.8	610.3	610.2
157.5°	626.6	627.5	628.2	629.0	629.8	629.9	629.4	629.0	628.5	628.0	627.9
160°	638.3	638.9	639.4	640.1	640.6	640.6	640.2	639.7	639.2	638.8	638.7
162.5°	648.1	648.8	649.5	650.3	650.9	651.0	650.4	649.8	649.2	648.7	648.7
165°	661.4	662.0	662.8	663.5	664.2	664.4	663.8	663.4	662.9	662.4	662.3
167.5°	671.9	672.6	673.4	674.1	674.9	674.9	674.2	673.4	672.7	672.0	672.0
170°	677.5	678.3	679.2	680.0	680.8	680.9	680.1	679.5	678.7	678.1	678.1
172.5°	682.2	683.0	683.7	684.5	685.2	685.2	684.5	683.8	683.1	682.3	682.3
175°	686.6	687.5	688.3	689.2	689.9	690.0	689.3	688.6	687.9	687.2	687.2
177.5°	689.2	689.8	690.6	691.3	691.9	691.9	691.4	690.8	690.2	689.7	689.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1186.4	1183.6	1180.4	1175.0	1168.4	1164.8	1159.3	1155.8	1148.8	1142.9	1136.6
5°	1246.5	1233.8	1222.1	1206.9	1190.2	1179.5	1166.8	1152.5	1137.9	1122.8	1106.1
7.5°	1308.9	1286.4	1261.9	1235.6	1209.8	1186.2	1163.6	1141.3	1120.6	1095.5	1074.3
10°	1350.8	1322.4	1292.0	1256.3	1221.6	1191.3	1160.5	1133.5	1106.1	1076.8	1050.7
12.5°	1392.7	1354.9	1312.0	1272.8	1231.0	1194.4	1158.1	1123.7	1089.3	1056.8	1026.5
15°	1422.3	1388.9	1349.3	1293.5	1246.5	1196.2	1148.2	1103.6	1062.1	1025.9	987.7
17.5°	1441.7	1398.8	1356.3	1302.8	1241.1	1184.8	1130.5	1079.5	1032.6	986.7	949.9
20°	1445.3	1401.2	1356.7	1304.3	1241.1	1176.6	1122.3	1061.0	1010.7	963.2	918.1
22.5°	1444.1	1394.2	1345.7	1291.8	1230.2	1170.7	1105.0	1042.6	988.0	941.2	894.3
25°	1433.0	1379.7	1319.0	1264.7	1204.0	1140.9	1074.3	1009.7	953.9	900.5	854.0
27.5°	1423.8	1354.6	1285.9	1222.6	1163.9	1106.1	1042.4	976.2	914.4	860.3	816.4
30°	1412.5	1336.6	1259.2	1193.2	1133.0	1076.8	1016.5	952.0	887.3	834.4	787.5
32.5°	1402.3	1313.9	1232.3	1160.4	1096.6	1041.9	986.4	924.9	861.5	807.9	760.8
35°	1382.6	1280.3	1186.8	1105.6	1037.6	981.3	934.8	877.5	819.3	767.4	722.4
37.5°	1357.6	1236.2	1136.0	1050.7	976.2	916.9	873.6	829.6	773.7	723.8	683.1
40°	1338.0	1204.9	1098.7	1011.6	934.3	872.6	832.5	790.9	744.4	698.0	654.9
42.5°	1313.4	1176.8	1061.2	967.4	890.8	830.8	788.6	753.3	712.3	668.9	629.0
45°	1268.1	1125.7	1000.4	899.6	822.2	763.0	719.4	693.1	662.2	621.0	587.3
47.5°	1201.5	1064.3	934.7	830.7	750.8	696.0	655.2	629.8	608.0	577.5	546.9
50°	1142.3	1018.5	887.3	784.0	704.3	648.9	611.3	588.2	569.7	546.2	520.3
52.5°	1076.1	960.9	840.7	738.7	659.7	605.1	568.3	548.0	532.5	515.7	490.1
55°	971.0	873.2	761.6	664.6	591.7	538.4	506.1	488.4	475.7	463.0	447.3
57.5°	855.2	778.6	679.8	591.3	524.1	475.5	445.4	428.2	418.4	411.8	402.6
60°	773.7	708.2	623.0	542.2	476.7	433.7	404.3	391.1	382.8	377.3	370.5
62.5°	698.2	644.4	565.4	491.7	434.4	393.7	367.5	354.7	346.7	344.0	338.4
65°	586.8	545.3	480.1	419.0	370.0	335.3	313.2	301.0	296.1	293.1	293.7
67.5°	477.1	451.8	399.4	347.3	308.2	279.1	261.5	252.0	249.6	245.7	245.6
70°	410.1	391.1	347.0	301.5	266.7	244.2	228.6	218.8	216.3	214.3	213.9
72.5°	351.0	334.3	296.1	259.6	228.4	208.6	195.7	189.8	185.8	184.6	184.5
75°	263.8	254.5	224.1	195.3	173.7	160.0	151.3	145.8	142.9	142.4	142.9
77.5°	187.6	179.5	160.1	139.7	126.1	115.7	108.3	106.4	103.1	103.2	102.6
80°	140.9	135.5	123.4	107.2	96.0	87.1	83.2	79.7	78.8	77.3	78.8
82.5°	102.2	96.4	88.1	77.9	68.5	63.2	59.3	58.2	57.7	56.9	57.3
85°	50.4	50.9	46.0	38.2	34.2	31.3	28.8	28.8	28.4	27.9	28.4
87.5°	18.6	17.6	15.9	14.6	12.4	11.0	10.5	10.7	9.7	9.5	10.1
90°	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6	1.5	2.5	3.4
92.5°	18.6	17.5	16.5	15.6	15.0	14.3	13.7	13.0	13.7	14.3	15.0
95°	39.0	37.8	36.7	35.9	35.6	35.4	35.2	35.0	35.2	35.4	35.6
97.5°	62.6	61.0	59.3	58.4	58.3	58.2	58.2	58.1	58.2	58.2	58.3
100°	79.2	77.6	76.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
102.5°	97.9	97.1	96.3	95.7	95.2	94.7	94.3	93.8	94.3	94.7	95.2
105°	127.1	126.4	125.6	125.0	124.4	123.8	123.2	122.6	123.2	123.8	124.4
107.5°	158.4	158.0	157.4	156.8	156.2	155.6	155.0	154.4	155.0	155.6	156.2
110°	179.9	179.6	179.3	178.8	178.1	177.6	176.9	176.3	176.9	177.6	178.1



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.2	200.9	200.4	200.0	199.6	199.3	199.1	198.7	199.1	199.3	199.6
115°	234.5	234.2	234.0	233.7	233.2	232.7	232.2	231.8	232.2	232.7	233.2
117.5°	266.4	266.2	266.0	265.7	265.5	265.3	265.0	264.9	265.0	265.3	265.5
120°	288.5	288.4	288.2	287.9	287.3	286.7	286.2	285.5	286.2	286.7	287.3
122.5°	309.6	309.3	309.0	308.8	308.5	308.3	308.1	307.9	308.1	308.3	308.5
125°	341.8	341.6	341.5	341.1	340.4	339.6	338.9	338.2	338.9	339.6	340.4
127.5°	372.7	372.5	372.4	372.1	371.6	371.3	370.9	370.5	370.9	371.3	371.6
130°	393.1	392.9	392.7	392.2	391.6	391.1	390.4	389.8	390.4	391.1	391.6
132.5°	413.5	413.5	413.6	413.1	412.1	411.1	410.2	409.2	410.2	411.1	412.1
135°	443.4	443.3	443.1	442.7	442.0	441.3	440.5	439.8	440.5	441.3	442.0
137.5°	472.4	472.2	471.9	471.5	470.7	470.0	469.4	468.6	469.4	470.0	470.7
140°	490.8	490.4	490.0	489.6	488.9	488.3	487.8	487.1	487.8	488.3	488.9
142.5°	509.1	508.6	508.1	507.7	507.2	506.6	506.1	505.7	506.1	506.6	507.2
145°	535.9	535.6	535.2	534.8	534.3	533.9	533.3	532.8	533.3	533.9	534.3
147.5°	560.0	559.6	559.3	559.1	558.8	558.6	558.3	558.0	558.3	558.6	558.8
150°	575.4	575.0	574.5	574.3	574.5	574.6	574.7	574.8	574.7	574.6	574.5
152.5°	589.7	589.6	589.4	589.2	589.1	588.9	588.7	588.5	588.7	588.9	589.1
155°	610.0	609.9	609.8	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
157.5°	627.8	627.6	627.5	627.6	627.9	628.1	628.4	628.7	628.4	628.1	627.9
160°	638.6	638.4	638.3	638.4	638.8	639.1	639.5	639.9	639.5	639.1	638.8
162.5°	648.7	648.6	648.6	648.7	648.9	649.2	649.5	649.8	649.5	649.2	648.9
165°	662.2	662.0	661.9	662.0	662.2	662.5	662.7	663.0	662.7	662.5	662.2
167.5°	672.0	672.0	672.0	672.2	672.7	673.2	673.7	674.2	673.7	673.2	672.7
170°	678.1	678.1	678.1	678.3	678.7	679.2	679.7	680.1	679.7	679.2	678.7
172.5°	682.3	682.3	682.3	682.6	683.1	683.5	684.0	684.5	684.0	683.5	683.1
175°	687.2	687.2	687.2	687.4	687.9	688.3	688.8	689.3	688.8	688.3	687.9
177.5°	689.8	689.9	690.0	690.2	690.7	691.1	691.4	691.8	691.4	691.1	690.7
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1133.1	1128.8	1125.3	1117.5	1113.1	1107.3	1102.6	1107.7	1102.2	1104.6	1101.0
5°	1097.8	1084.1	1074.3	1060.1	1047.8	1036.6	1028.3	1026.8	1022.8	1021.0	1015.0
7.5°	1055.3	1038.1	1021.3	1002.8	987.0	971.1	960.9	952.5	947.0	939.6	934.6
10°	1030.2	1007.2	987.7	965.2	945.6	928.4	914.7	907.9	901.5	892.2	888.8
12.5°	999.3	975.5	951.6	927.6	908.8	889.7	877.9	867.5	863.2	852.6	851.6
15°	962.2	926.5	903.0	878.5	852.5	836.9	827.1	815.9	811.0	803.6	798.2
17.5°	917.9	886.1	856.7	831.3	809.1	795.9	783.7	776.0	767.6	762.8	754.0
20°	885.9	855.5	826.1	799.2	782.1	766.9	757.1	749.8	741.0	738.6	729.7
22.5°	858.8	825.4	797.2	774.6	755.8	738.8	728.1	723.2	717.1	709.5	707.8
25°	814.9	780.1	756.2	733.7	717.0	701.3	694.0	687.7	681.7	676.4	674.4
27.5°	776.9	745.8	717.4	697.0	682.6	668.3	661.8	654.0	649.8	645.5	640.2
30°	750.3	718.5	693.5	673.9	658.3	645.5	638.7	633.3	629.4	625.5	622.5
32.5°	722.8	693.4	669.2	650.1	634.4	624.8	618.7	614.9	610.6	605.9	602.2
35°	686.6	654.3	630.8	614.3	602.0	594.7	587.8	584.4	579.5	579.5	575.5
37.5°	645.8	617.9	597.2	582.0	571.1	564.5	557.0	554.7	551.6	549.5	548.2
40°	621.6	595.6	576.1	560.9	549.1	543.8	537.9	534.0	532.0	529.5	528.6
42.5°	596.5	571.7	553.0	538.9	528.8	524.1	518.7	515.9	512.0	508.8	508.2
45°	558.5	534.4	517.4	506.1	497.3	491.9	488.4	482.6	480.6	476.7	476.2
47.5°	522.3	499.3	482.5	473.3	465.5	461.1	455.7	449.9	447.6	445.6	445.4
50°	495.3	474.3	458.5	449.8	442.4	436.1	430.6	426.8	425.3	425.3	426.3
52.5°	467.9	450.0	436.7	425.9	419.0	412.2	407.2	404.8	402.6	404.9	406.7
55°	427.7	409.6	399.8	389.6	382.8	374.8	372.5	371.5	370.0	373.9	375.9
57.5°	385.3	372.6	361.1	350.9	344.8	340.3	337.0	336.3	339.0	340.9	347.3
60°	358.3	343.6	333.3	325.5	318.1	315.2	314.2	313.2	315.2	320.6	328.9
62.5°	328.5	316.6	305.5	299.6	294.3	289.4	289.2	289.7	293.7	299.8	308.1
65°	284.8	274.6	267.2	260.3	256.0	253.1	254.0	256.0	260.3	268.7	278.0
67.5°	240.5	233.5	226.9	221.3	217.1	217.1	218.1	221.0	226.2	235.8	244.3
70°	211.9	204.1	198.7	196.2	192.8	190.9	193.8	198.7	203.1	211.9	219.2
72.5°	183.3	176.7	172.5	170.8	169.4	167.8	168.7	174.0	180.0	188.8	197.4
75°	140.9	138.5	135.5	133.7	132.1	133.1	134.1	139.0	143.9	153.2	163.0
77.5°	102.8	100.3	98.6	98.1	97.3	97.7	100.6	104.2	109.0	115.7	123.1
80°	77.9	76.8	75.9	75.4	75.4	75.9	79.7	82.2	86.6	93.0	98.9
82.5°	56.6	56.1	55.9	55.8	56.2	56.3	58.6	61.8	65.5	70.3	75.4
85°	29.9	28.8	30.3	30.8	29.9	31.3	32.3	34.2	35.7	38.2	40.6
87.5°	10.7	11.6	11.4	12.0	12.2	13.1	12.8	14.5	15.4	16.3	16.0
90°	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8	10.4	11.0	11.5
92.5°	15.6	16.5	17.5	18.6	19.6	20.6	21.4	22.2	23.0	23.8	24.3
95°	35.9	36.7	37.8	39.0	40.2	41.4	42.2	43.1	43.9	44.8	45.2
97.5°	58.4	59.3	61.0	62.6	64.3	65.9	66.7	67.5	68.3	69.1	69.6
100°	75.3	76.1	77.6	79.2	80.7	82.3	83.3	84.5	85.5	86.5	87.2
102.5°	95.7	96.3	97.1	97.9	98.7	99.4	100.7	101.8	103.0	104.2	104.9
105°	125.0	125.6	126.4	127.1	127.8	128.5	129.2	130.0	130.6	131.4	132.0
107.5°	156.8	157.4	158.0	158.4	159.0	159.6	159.9	160.3	160.7	161.0	161.2
110°	178.8	179.3	179.6	179.9	180.3	180.7	181.1	181.3	181.7	182.1	182.2



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.0	200.4	200.9	201.2	201.7	202.2	202.4	202.6	202.6	202.8	202.8
115°	233.7	234.0	234.2	234.5	234.7	235.0	234.9	234.7	234.6	234.5	234.4
117.5°	265.7	266.0	266.2	266.4	266.6	266.8	266.9	267.0	267.1	267.2	267.0
120°	287.9	288.2	288.4	288.5	288.6	288.7	288.7	288.7	288.7	288.7	288.5
122.5°	308.8	309.0	309.3	309.6	309.9	310.3	310.2	310.1	310.0	309.9	309.6
125°	341.1	341.5	341.6	341.8	341.9	342.0	341.8	341.5	341.3	341.0	340.8
127.5°	372.1	372.4	372.5	372.7	372.8	373.0	372.9	372.7	372.6	372.5	372.3
130°	392.2	392.7	392.9	393.1	393.3	393.6	393.5	393.3	393.2	393.1	392.9
132.5°	413.1	413.6	413.5	413.5	413.4	413.4	413.3	413.1	413.0	412.9	412.6
135°	442.7	443.1	443.3	443.4	443.5	443.6	443.6	443.6	443.6	443.6	443.4
137.5°	471.5	471.9	472.2	472.4	472.7	473.0	473.1	473.3	473.3	473.5	473.3
140°	489.6	490.0	490.4	490.8	491.1	491.4	491.7	491.9	492.2	492.4	492.2
142.5°	507.7	508.1	508.6	509.1	509.5	509.9	510.1	510.2	510.4	510.5	510.3
145°	534.8	535.2	535.6	535.9	536.3	536.6	536.6	536.6	536.6	536.6	536.4
147.5°	559.1	559.3	559.6	560.0	560.2	560.5	560.8	561.1	561.4	561.7	561.4
150°	574.3	574.5	575.0	575.4	575.9	576.4	576.4	576.4	576.4	576.4	576.3
152.5°	589.2	589.4	589.6	589.7	589.9	590.2	590.5	590.8	591.1	591.4	591.3
155°	609.7	609.8	609.9	610.0	610.2	610.3	610.8	611.2	611.7	612.2	612.2
157.5°	627.6	627.5	627.6	627.8	627.9	628.0	628.5	629.0	629.4	629.9	629.8
160°	638.4	638.3	638.4	638.6	638.7	638.8	639.2	639.7	640.2	640.6	640.6
162.5°	648.7	648.6	648.6	648.7	648.7	648.7	649.2	649.8	650.4	651.0	650.9
165°	662.0	661.9	662.0	662.2	662.3	662.4	662.9	663.4	663.8	664.4	664.2
167.5°	672.2	672.0	672.0	672.0	672.0	672.0	672.7	673.4	674.2	674.9	674.9
170°	678.3	678.1	678.1	678.1	678.1	678.1	678.7	679.5	680.1	680.9	680.8
172.5°	682.6	682.3	682.3	682.3	682.3	682.3	683.1	683.8	684.5	685.2	685.2
175°	687.4	687.2	687.2	687.2	687.2	687.2	687.9	688.6	689.3	690.0	689.9
177.5°	690.2	690.0	689.9	689.8	689.8	689.7	690.2	690.8	691.4	691.9	691.9
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1098.6	1101.4	1099.0	1102.2	1099.0	1101.4	1098.6	1101.0	1104.6	1102.2	1107.7
5°	1012.6	1008.2	1011.2	1009.2	1011.2	1008.2	1012.6	1015.0	1021.0	1022.8	1026.8
7.5°	933.1	928.9	924.2	921.9	924.2	928.9	933.1	934.6	939.6	947.0	952.5
10°	883.4	878.0	877.5	874.1	877.5	878.0	883.4	888.8	892.2	901.5	907.9
12.5°	847.0	842.0	836.4	835.0	836.4	842.0	847.0	851.6	852.6	863.2	867.5
15°	795.3	791.4	788.0	790.9	788.0	791.4	795.3	798.2	803.6	811.0	815.9
17.5°	752.3	749.1	748.5	744.9	748.5	749.1	752.3	754.0	762.8	767.6	776.0
20°	725.3	722.8	723.9	717.5	723.9	722.8	725.3	729.7	738.6	741.0	749.8
22.5°	703.8	699.0	698.4	697.1	698.4	699.0	703.8	707.8	709.5	717.1	723.2
25°	670.1	667.6	665.2	667.6	665.2	667.6	670.1	674.4	676.4	681.7	687.7
27.5°	640.6	637.6	637.0	637.3	637.0	637.6	640.6	640.2	645.5	649.8	654.0
30°	622.5	617.6	618.1	617.6	618.1	617.6	622.5	622.5	625.5	629.4	633.3
32.5°	602.9	599.6	599.0	598.0	599.0	599.6	602.9	602.2	605.9	610.6	614.9
35°	574.1	574.1	571.7	571.7	571.7	574.1	574.1	575.5	579.5	579.5	584.4
37.5°	547.0	546.5	545.0	545.3	545.0	546.5	547.0	548.2	549.5	551.6	554.7
40°	526.6	526.1	524.6	521.7	524.6	526.1	526.6	528.6	529.5	532.0	534.0
42.5°	507.0	505.4	504.7	503.7	504.7	505.4	507.0	508.2	508.8	512.0	515.9
45°	476.2	476.2	475.2	474.8	475.2	476.2	476.2	476.2	476.7	480.6	482.6
47.5°	446.3	447.1	449.0	448.7	449.0	447.1	446.3	445.4	445.6	447.6	449.9
50°	428.2	428.8	430.2	430.6	430.2	428.8	428.2	426.3	425.3	425.3	426.8
52.5°	408.3	411.1	412.9	412.6	412.9	411.1	408.3	406.7	404.9	402.6	404.8
55°	380.3	383.7	387.1	387.7	387.1	383.7	380.3	375.9	373.9	370.0	371.5
57.5°	352.6	357.4	361.0	362.1	361.0	357.4	352.6	347.3	340.9	339.0	336.3
60°	333.8	340.2	344.6	346.5	344.6	340.2	333.8	328.9	320.6	315.2	313.2
62.5°	315.8	322.9	327.3	327.7	327.3	322.9	315.8	308.1	299.8	293.7	289.7
65°	286.3	293.7	297.6	300.5	297.6	293.7	286.3	278.0	268.7	260.3	256.0
67.5°	254.6	261.9	266.3	268.6	266.3	261.9	254.6	244.3	235.8	226.2	221.0
70°	231.5	238.8	244.7	246.7	244.7	238.8	231.5	219.2	211.9	203.1	198.7
72.5°	208.8	215.4	220.1	222.3	220.1	215.4	208.8	197.4	188.8	180.0	174.0
75°	169.4	178.1	182.6	185.0	182.6	178.1	169.4	163.0	153.2	143.9	139.0
77.5°	130.5	138.6	141.3	142.5	141.3	138.6	130.5	123.1	115.7	109.0	104.2
80°	104.7	109.6	113.0	113.6	113.0	109.6	104.7	98.9	93.0	86.6	82.2
82.5°	80.5	84.5	85.7	86.9	85.7	84.5	80.5	75.4	70.3	65.5	61.8
85°	44.0	46.0	46.5	46.0	46.5	46.0	44.0	40.6	38.2	35.7	34.2
87.5°	16.9	16.5	16.6	17.4	16.6	16.5	16.9	16.0	16.3	15.4	14.5
90°	11.9	12.2	12.5	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8
92.5°	24.6	24.9	25.1	25.4	25.1	24.9	24.6	24.3	23.8	23.0	22.2
95°	45.5	45.8	46.0	46.3	46.0	45.8	45.5	45.2	44.8	43.9	43.1
97.5°	69.7	69.8	69.9	70.1	69.9	69.8	69.7	69.6	69.1	68.3	67.5
100°	87.5	87.8	87.9	88.2	87.9	87.8	87.5	87.2	86.5	85.5	84.5
102.5°	105.3	105.6	105.9	106.2	105.9	105.6	105.3	104.9	104.2	103.0	101.8
105°	132.2	132.6	133.0	133.4	133.0	132.6	132.2	132.0	131.4	130.6	130.0
107.5°	161.2	161.2	161.1	161.1	161.1	161.2	161.2	161.2	161.0	160.7	160.3
110°	182.1	182.0	181.8	181.7	181.8	182.0	182.1	182.2	182.1	181.7	181.3



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	202.6	202.4	202.2	202.0	202.2	202.4	202.6	202.8	202.8	202.6	202.6
115°	234.2	234.1	234.0	233.9	234.0	234.1	234.2	234.4	234.5	234.6	234.7
117.5°	266.6	266.1	265.6	265.0	265.6	266.1	266.6	267.0	267.2	267.1	267.0
120°	288.0	287.6	287.1	286.6	287.1	287.6	288.0	288.5	288.7	288.7	288.7
122.5°	309.2	308.9	308.5	308.1	308.5	308.9	309.2	309.6	309.9	310.0	310.1
125°	340.7	340.6	340.4	340.4	340.4	340.6	340.7	340.8	341.0	341.3	341.5
127.5°	372.0	371.8	371.6	371.4	371.6	371.8	372.0	372.3	372.5	372.6	372.7
130°	392.7	392.5	392.2	392.0	392.2	392.5	392.7	392.9	393.1	393.2	393.3
132.5°	412.4	412.0	411.7	411.3	411.7	412.0	412.4	412.6	412.9	413.0	413.1
135°	442.9	442.4	442.0	441.5	442.0	442.4	442.9	443.4	443.6	443.6	443.6
137.5°	472.7	472.1	471.6	470.9	471.6	472.1	472.7	473.3	473.5	473.3	473.3
140°	491.6	491.1	490.4	489.8	490.4	491.1	491.6	492.2	492.4	492.2	491.9
142.5°	509.7	509.1	508.5	507.9	508.5	509.1	509.7	510.3	510.5	510.4	510.2
145°	536.1	535.7	535.4	535.0	535.4	535.7	536.1	536.4	536.6	536.6	536.6
147.5°	560.5	559.8	558.9	558.2	558.9	559.8	560.5	561.4	561.7	561.4	561.1
150°	576.1	575.8	575.6	575.3	575.6	575.8	576.1	576.3	576.4	576.4	576.4
152.5°	590.8	590.4	589.9	589.6	589.9	590.4	590.8	591.3	591.4	591.1	590.8
155°	611.5	611.0	610.3	609.7	610.3	611.0	611.5	612.2	612.2	611.7	611.2
157.5°	629.0	628.2	627.5	626.6	627.5	628.2	629.0	629.8	629.9	629.4	629.0
160°	640.1	639.4	638.9	638.3	638.9	639.4	640.1	640.6	640.6	640.2	639.7
162.5°	650.3	649.5	648.8	648.1	648.8	649.5	650.3	650.9	651.0	650.4	649.8
165°	663.5	662.8	662.0	661.4	662.0	662.8	663.5	664.2	664.4	663.8	663.4
167.5°	674.1	673.4	672.6	671.9	672.6	673.4	674.1	674.9	674.9	674.2	673.4
170°	680.0	679.2	678.3	677.5	678.3	679.2	680.0	680.8	680.9	680.1	679.5
172.5°	684.5	683.7	683.0	682.2	683.0	683.7	684.5	685.2	685.2	684.5	683.8
175°	689.2	688.3	687.5	686.6	687.5	688.3	689.2	689.9	690.0	689.3	688.6
177.5°	691.3	690.6	689.8	689.2	689.8	690.6	691.3	691.9	691.9	691.4	690.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1102.6	1107.3	1113.1	1117.5	1125.3	1128.8	1133.1	1136.6	1142.9	1148.8	1155.8
5°	1028.3	1036.6	1047.8	1060.1	1074.3	1084.1	1097.8	1106.1	1122.8	1137.9	1152.5
7.5°	960.9	971.1	987.0	1002.8	1021.3	1038.1	1055.3	1074.3	1095.5	1120.6	1141.3
10°	914.7	928.4	945.6	965.2	987.7	1007.2	1030.2	1050.7	1076.8	1106.1	1133.5
12.5°	877.9	889.7	908.8	927.6	951.6	975.5	999.3	1026.5	1056.8	1089.3	1123.7
15°	827.1	836.9	852.5	878.5	903.0	926.5	962.2	987.7	1025.9	1062.1	1103.6
17.5°	783.7	795.9	809.1	831.3	856.7	886.1	917.9	949.9	986.7	1032.6	1079.5
20°	757.1	766.9	782.1	799.2	826.1	855.5	885.9	918.1	963.2	1010.7	1061.0
22.5°	728.1	738.8	755.8	774.6	797.2	825.4	858.8	894.3	941.2	988.0	1042.6
25°	694.0	701.3	717.0	733.7	756.2	780.1	814.9	854.0	900.5	953.9	1009.7
27.5°	661.8	668.3	682.6	697.0	717.4	745.8	776.9	816.4	860.3	914.4	976.2
30°	638.7	645.5	658.3	673.9	693.5	718.5	750.3	787.5	834.4	887.3	952.0
32.5°	618.7	624.8	634.4	650.1	669.2	693.4	722.8	760.8	807.9	861.5	924.9
35°	587.8	594.7	602.0	614.3	630.8	654.3	686.6	722.4	767.4	819.3	877.5
37.5°	557.0	564.5	571.1	582.0	597.2	617.9	645.8	683.1	723.8	773.7	829.6
40°	537.9	543.8	549.1	560.9	576.1	595.6	621.6	654.9	698.0	744.4	790.9
42.5°	518.7	524.1	528.8	538.9	553.0	571.7	596.5	629.0	668.9	712.3	753.3
45°	488.4	491.9	497.3	506.1	517.4	534.4	558.5	587.3	621.0	662.2	693.1
47.5°	455.7	461.1	465.5	473.3	482.5	499.3	522.3	546.9	577.5	608.0	629.8
50°	430.6	436.1	442.4	449.8	458.5	474.3	495.3	520.3	546.2	569.7	588.2
52.5°	407.2	412.2	419.0	425.9	436.7	450.0	467.9	490.1	515.7	532.5	548.0
55°	372.5	374.8	382.8	389.6	399.8	409.6	427.7	447.3	463.0	475.7	488.4
57.5°	337.0	340.3	344.8	350.9	361.1	372.6	385.3	402.6	411.8	418.4	428.2
60°	314.2	315.2	318.1	325.5	333.3	343.6	358.3	370.5	377.3	382.8	391.1
62.5°	289.2	289.4	294.3	299.6	305.5	316.6	328.5	338.4	344.0	346.7	354.7
65°	254.0	253.1	256.0	260.3	267.2	274.6	284.8	293.7	293.1	296.1	301.0
67.5°	218.1	217.1	217.1	221.3	226.9	233.5	240.5	245.6	245.7	249.6	252.0
70°	193.8	190.9	192.8	196.2	198.7	204.1	211.9	213.9	214.3	216.3	218.8
72.5°	168.7	167.8	169.4	170.8	172.5	176.7	183.3	184.5	184.6	185.8	189.8
75°	134.1	133.1	132.1	133.7	135.5	138.5	140.9	142.9	142.4	142.9	145.8
77.5°	100.6	97.7	97.3	98.1	98.6	100.3	102.8	102.6	103.2	103.1	106.4
80°	79.7	75.9	75.4	75.4	75.9	76.8	77.9	78.8	77.3	78.8	79.7
82.5°	58.6	56.3	56.2	55.8	55.9	56.1	56.6	57.3	56.9	57.7	58.2
85°	32.3	31.3	29.9	30.8	30.3	28.8	29.9	28.4	27.9	28.4	28.8
87.5°	12.8	13.1	12.2	12.0	11.4	11.6	10.7	10.1	9.5	9.7	10.7
90°	9.2	8.6	7.7	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6
92.5°	21.4	20.6	19.6	18.6	17.5	16.5	15.6	15.0	14.3	13.7	13.0
95°	42.2	41.4	40.2	39.0	37.8	36.7	35.9	35.6	35.4	35.2	35.0
97.5°	66.7	65.9	64.3	62.6	61.0	59.3	58.4	58.3	58.2	58.2	58.1
100°	83.3	82.3	80.7	79.2	77.6	76.1	75.3	75.3	75.3	75.3	75.3
102.5°	100.7	99.4	98.7	97.9	97.1	96.3	95.7	95.2	94.7	94.3	93.8
105°	129.2	128.5	127.8	127.1	126.4	125.6	125.0	124.4	123.8	123.2	122.6
107.5°	159.9	159.6	159.0	158.4	158.0	157.4	156.8	156.2	155.6	155.0	154.4
110°	181.1	180.7	180.3	179.9	179.6	179.3	178.8	178.1	177.6	176.9	176.3



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	202.4	202.2	201.7	201.2	200.9	200.4	200.0	199.6	199.3	199.1	198.7
115°	234.9	235.0	234.7	234.5	234.2	234.0	233.7	233.2	232.7	232.2	231.8
117.5°	266.9	266.8	266.6	266.4	266.2	266.0	265.7	265.5	265.3	265.0	264.9
120°	288.7	288.7	288.6	288.5	288.4	288.2	287.9	287.3	286.7	286.2	285.5
122.5°	310.2	310.3	309.9	309.6	309.3	309.0	308.8	308.5	308.3	308.1	307.9
125°	341.8	342.0	341.9	341.8	341.6	341.5	341.1	340.4	339.6	338.9	338.2
127.5°	372.9	373.0	372.8	372.7	372.5	372.4	372.1	371.6	371.3	370.9	370.5
130°	393.5	393.6	393.3	393.1	392.9	392.7	392.2	391.6	391.1	390.4	389.8
132.5°	413.3	413.4	413.4	413.5	413.5	413.6	413.1	412.1	411.1	410.2	409.2
135°	443.6	443.6	443.5	443.4	443.3	443.1	442.7	442.0	441.3	440.5	439.8
137.5°	473.1	473.0	472.7	472.4	472.2	471.9	471.5	470.7	470.0	469.4	468.6
140°	491.7	491.4	491.1	490.8	490.4	490.0	489.6	488.9	488.3	487.8	487.1
142.5°	510.1	509.9	509.5	509.1	508.6	508.1	507.7	507.2	506.6	506.1	505.7
145°	536.6	536.6	536.3	535.9	535.6	535.2	534.8	534.3	533.9	533.3	532.8
147.5°	560.8	560.5	560.2	560.0	559.6	559.3	559.1	558.8	558.6	558.3	558.0
150°	576.4	576.4	575.9	575.4	575.0	574.5	574.3	574.5	574.6	574.7	574.8
152.5°	590.5	590.2	589.9	589.7	589.6	589.4	589.2	589.1	588.9	588.7	588.5
155°	610.8	610.3	610.2	610.0	609.9	609.8	609.7	609.7	609.7	609.7	609.7
157.5°	628.5	628.0	627.9	627.8	627.6	627.5	627.6	627.9	628.1	628.4	628.7
160°	639.2	638.8	638.7	638.6	638.4	638.3	638.4	638.8	639.1	639.5	639.9
162.5°	649.2	648.7	648.7	648.7	648.6	648.6	648.7	648.9	649.2	649.5	649.8
165°	662.9	662.4	662.3	662.2	662.0	661.9	662.0	662.2	662.5	662.7	663.0
167.5°	672.7	672.0	672.0	672.0	672.0	672.0	672.2	672.7	673.2	673.7	674.2
170°	678.7	678.1	678.1	678.1	678.1	678.1	678.3	678.7	679.2	679.7	680.1
172.5°	683.1	682.3	682.3	682.3	682.3	682.3	682.6	683.1	683.5	684.0	684.5
175°	687.9	687.2	687.2	687.2	687.2	687.2	687.4	687.9	688.3	688.8	689.3
177.5°	690.2	689.7	689.8	689.8	689.9	690.0	690.2	690.7	691.1	691.4	691.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1159.3	1164.8	1168.4	1175.0	1180.4	1183.6	1186.4	1188.7	1191.5	1193.8	1200.4
5°	1166.8	1179.5	1190.2	1206.9	1222.1	1233.8	1246.5	1257.8	1267.2	1280.3	1290.6
7.5°	1163.6	1186.2	1209.8	1235.6	1261.9	1286.4	1308.9	1329.9	1349.1	1372.2	1392.4
10°	1160.5	1191.3	1221.6	1256.3	1292.0	1322.4	1350.8	1379.7	1400.7	1430.1	1455.0
12.5°	1158.1	1194.4	1231.0	1272.8	1312.0	1354.9	1392.7	1413.7	1445.8	1469.2	1498.9
15°	1148.2	1196.2	1246.5	1293.5	1349.3	1388.9	1422.3	1463.4	1493.2	1523.1	1555.4
17.5°	1130.5	1184.8	1241.1	1302.8	1356.3	1398.8	1441.7	1481.4	1517.0	1557.1	1597.2
20°	1122.3	1176.6	1241.1	1304.3	1356.7	1401.2	1445.3	1488.8	1528.0	1579.3	1625.9
22.5°	1105.0	1170.7	1230.2	1291.8	1345.7	1394.2	1444.1	1493.6	1545.6	1603.6	1661.9
25°	1074.3	1140.9	1204.0	1264.7	1319.0	1379.7	1433.0	1499.1	1565.7	1642.5	1715.0
27.5°	1042.4	1106.1	1163.9	1222.6	1285.9	1354.6	1423.8	1498.8	1585.9	1682.9	1785.1
30°	1016.5	1076.8	1133.0	1193.2	1259.2	1336.6	1412.5	1501.6	1602.3	1711.5	1832.9
32.5°	986.4	1041.9	1096.6	1160.4	1232.3	1313.9	1402.3	1500.0	1621.2	1745.2	1870.1
35°	934.8	981.3	1037.6	1105.6	1186.8	1280.3	1382.6	1498.1	1637.1	1779.5	1884.8
37.5°	873.6	916.9	976.2	1050.7	1136.0	1236.2	1357.6	1494.7	1642.3	1755.9	1789.8
40°	832.5	872.6	934.3	1011.6	1098.7	1204.9	1338.0	1482.9	1625.9	1698.3	1670.4
42.5°	788.6	830.8	890.8	967.4	1061.2	1176.8	1313.4	1458.3	1578.1	1605.5	1509.1
45°	719.4	763.0	822.2	899.6	1000.4	1125.7	1268.1	1399.8	1468.8	1419.3	1270.1
47.5°	655.2	696.0	750.8	830.7	934.7	1064.3	1201.5	1306.5	1311.9	1194.0	1034.5
50°	611.3	648.9	704.3	784.0	887.3	1018.5	1142.3	1225.0	1187.8	1054.2	901.0
52.5°	568.3	605.1	659.7	738.7	840.7	960.9	1076.1	1134.2	1064.1	927.0	796.1
55°	506.1	538.4	591.7	664.6	761.6	873.2	971.0	991.1	900.0	765.0	658.7
57.5°	445.4	475.5	524.1	591.3	679.8	778.6	855.2	850.9	754.7	638.8	554.5
60°	404.3	433.7	476.7	542.2	623.0	708.2	773.7	758.1	662.7	562.8	491.9
62.5°	367.5	393.7	434.4	491.7	565.4	644.4	698.2	675.1	581.6	494.3	438.2
65°	313.2	335.3	370.0	419.0	480.1	545.3	586.8	556.9	477.2	409.2	364.1
67.5°	261.5	279.1	308.2	347.3	399.4	451.8	477.1	447.0	383.2	333.6	300.2
70°	228.6	244.2	266.7	301.5	347.0	391.1	410.1	383.2	328.4	285.8	261.8
72.5°	195.7	208.6	228.4	259.6	296.1	334.3	351.0	325.3	280.2	244.3	221.9
75°	151.3	160.0	173.7	195.3	224.1	254.5	263.8	241.3	212.4	185.5	170.8
77.5°	108.3	115.7	126.1	139.7	160.1	179.5	187.6	174.6	152.2	135.2	123.1
80°	83.2	87.1	96.0	107.2	123.4	135.5	140.9	132.6	117.0	104.2	94.9
82.5°	59.3	63.2	68.5	77.9	88.1	96.4	102.2	96.6	85.3	75.3	69.8
85°	28.8	31.3	34.2	38.2	46.0	50.9	50.4	46.9	42.6	38.6	35.7
87.5°	10.5	11.0	12.4	14.6	15.9	17.6	18.6	18.0	16.6	15.6	14.5
90°	1.5	2.5	3.4	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8
92.5°	13.7	14.3	15.0	15.6	16.5	17.5	18.6	19.6	20.6	21.4	22.2
95°	35.2	35.4	35.6	35.9	36.7	37.8	39.0	40.2	41.4	42.2	43.1
97.5°	58.2	58.2	58.3	58.4	59.3	61.0	62.6	64.3	65.9	66.7	67.5
100°	75.3	75.3	75.3	75.3	76.1	77.6	79.2	80.7	82.3	83.3	84.5
102.5°	94.3	94.7	95.2	95.7	96.3	97.1	97.9	98.7	99.4	100.7	101.8
105°	123.2	123.8	124.4	125.0	125.6	126.4	127.1	127.8	128.5	129.2	130.0
107.5°	155.0	155.6	156.2	156.8	157.4	158.0	158.4	159.0	159.6	159.9	160.3
110°	176.9	177.6	178.1	178.8	179.3	179.6	179.9	180.3	180.7	181.1	181.3



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	199.1	199.3	199.6	200.0	200.4	200.9	201.2	201.7	202.2	202.4	202.6
115°	232.2	232.7	233.2	233.7	234.0	234.2	234.5	234.7	235.0	234.9	234.7
117.5°	265.0	265.3	265.5	265.7	266.0	266.2	266.4	266.6	266.8	266.9	267.0
120°	286.2	286.7	287.3	287.9	288.2	288.4	288.5	288.6	288.7	288.7	288.7
122.5°	308.1	308.3	308.5	308.8	309.0	309.3	309.6	309.9	310.3	310.2	310.1
125°	338.9	339.6	340.4	341.1	341.5	341.6	341.8	341.9	342.0	341.8	341.5
127.5°	370.9	371.3	371.6	372.1	372.4	372.5	372.7	372.8	373.0	372.9	372.7
130°	390.4	391.1	391.6	392.2	392.7	392.9	393.1	393.3	393.6	393.5	393.3
132.5°	410.2	411.1	412.1	413.1	413.6	413.5	413.5	413.4	413.4	413.3	413.1
135°	440.5	441.3	442.0	442.7	443.1	443.3	443.4	443.5	443.6	443.6	443.6
137.5°	469.4	470.0	470.7	471.5	471.9	472.2	472.4	472.7	473.0	473.1	473.3
140°	487.8	488.3	488.9	489.6	490.0	490.4	490.8	491.1	491.4	491.7	491.9
142.5°	506.1	506.6	507.2	507.7	508.1	508.6	509.1	509.5	509.9	510.1	510.2
145°	533.3	533.9	534.3	534.8	535.2	535.6	535.9	536.3	536.6	536.6	536.6
147.5°	558.3	558.6	558.8	559.1	559.3	559.6	560.0	560.2	560.5	560.8	561.1
150°	574.7	574.6	574.5	574.3	574.5	575.0	575.4	575.9	576.4	576.4	576.4
152.5°	588.7	588.9	589.1	589.2	589.4	589.6	589.7	589.9	590.2	590.5	590.8
155°	609.7	609.7	609.7	609.7	609.8	609.9	610.0	610.2	610.3	610.8	611.2
157.5°	628.4	628.1	627.9	627.6	627.5	627.6	627.8	627.9	628.0	628.5	629.0
160°	639.5	639.1	638.8	638.4	638.3	638.4	638.6	638.7	638.8	639.2	639.7
162.5°	649.5	649.2	648.9	648.7	648.6	648.6	648.7	648.7	648.7	649.2	649.8
165°	662.7	662.5	662.2	662.0	661.9	662.0	662.2	662.3	662.4	662.9	663.4
167.5°	673.7	673.2	672.7	672.2	672.0	672.0	672.0	672.0	672.0	672.7	673.4
170°	679.7	679.2	678.7	678.3	678.1	678.1	678.1	678.1	678.1	678.7	679.5
172.5°	684.0	683.5	683.1	682.6	682.3	682.3	682.3	682.3	682.3	683.1	683.8
175°	688.8	688.3	687.9	687.4	687.2	687.2	687.2	687.2	687.2	687.9	688.6
177.5°	691.4	691.1	690.7	690.2	690.0	689.9	689.8	689.8	689.7	690.2	690.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1205.9	1209.1	1215.7	1213.3	1216.5	1218.0	1219.7
5°	1303.3	1319.0	1325.9	1324.8	1335.1	1332.7	1330.2
7.5°	1413.3	1429.8	1439.0	1450.5	1457.1	1457.5	1463.4
10°	1475.6	1497.1	1506.0	1518.2	1526.0	1530.4	1529.9
12.5°	1523.3	1540.2	1560.0	1565.9	1576.5	1582.1	1580.1
15°	1580.8	1607.8	1628.3	1638.6	1651.8	1655.7	1661.1
17.5°	1632.1	1668.2	1692.2	1724.1	1736.2	1743.5	1739.2
20°	1670.8	1718.3	1742.4	1780.6	1801.6	1812.8	1808.9
22.5°	1716.7	1768.1	1812.4	1845.5	1877.5	1892.7	1895.8
25°	1795.2	1865.7	1930.8	1974.3	2013.9	2023.3	2043.8
27.5°	1882.9	1966.0	2035.6	2081.4	2109.0	2119.4	2125.8
30°	1938.2	2020.8	2073.2	2102.5	2111.4	2110.4	2109.4
32.5°	1965.1	2016.9	2026.9	2018.7	1998.6	1981.6	1963.8
35°	1926.8	1888.2	1830.4	1756.1	1701.2	1646.0	1640.5
37.5°	1733.0	1609.3	1513.2	1405.8	1343.9	1305.6	1279.1
40°	1550.5	1410.0	1293.5	1203.0	1139.8	1114.9	1090.4
42.5°	1352.4	1218.1	1115.0	1039.3	991.8	964.1	944.8
45°	1098.7	980.3	899.6	844.7	807.1	785.5	773.3
47.5°	900.3	812.8	744.1	704.6	678.5	661.8	661.9
50°	793.8	710.1	664.6	633.3	610.8	597.6	600.0
52.5°	699.5	637.0	598.0	571.8	555.2	547.1	546.8
55°	584.8	539.8	514.3	495.3	484.0	474.8	476.7
57.5°	500.3	462.3	445.3	429.4	421.6	417.8	412.5
60°	447.8	418.5	403.8	391.1	383.2	380.3	374.8
62.5°	401.2	378.1	363.8	353.5	346.4	345.4	341.2
65°	337.2	319.6	306.9	302.0	294.6	292.7	292.7
67.5°	278.0	265.3	255.5	251.0	247.7	248.3	245.9
70°	240.8	230.5	224.1	219.2	216.8	217.3	215.4
72.5°	210.7	199.2	193.6	190.7	187.5	188.7	187.9
75°	159.6	153.6	150.7	147.8	145.8	144.9	143.9
77.5°	117.2	112.0	109.7	108.1	108.4	106.0	107.8
80°	90.6	86.1	84.6	82.2	81.7	81.7	81.2
82.5°	66.3	63.8	62.8	60.7	59.9	60.6	59.3
85°	34.2	32.3	31.9	31.9	30.8	29.9	32.3
87.5°	14.6	13.2	13.3	12.9	13.0	12.7	12.0
90°	10.4	11.0	11.5	11.9	12.2	12.5	12.9
92.5°	23.0	23.8	24.3	24.6	24.9	25.1	25.4
95°	43.9	44.8	45.2	45.5	45.8	46.0	46.3
97.5°	68.3	69.1	69.6	69.7	69.8	69.9	70.1
100°	85.5	86.5	87.2	87.5	87.8	87.9	88.2
102.5°	103.0	104.2	104.9	105.3	105.6	105.9	106.2
105°	130.6	131.4	132.0	132.2	132.6	133.0	133.4
107.5°	160.7	161.0	161.2	161.2	161.2	161.1	161.1
110°	181.7	182.1	182.2	182.1	182.0	181.8	181.7



TEST NUMBER: P333215-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	202.6	202.8	202.8	202.6	202.4	202.2	202.0
115°	234.6	234.5	234.4	234.2	234.1	234.0	233.9
117.5°	267.1	267.2	267.0	266.6	266.1	265.6	265.0
120°	288.7	288.7	288.5	288.0	287.6	287.1	286.6
122.5°	310.0	309.9	309.6	309.2	308.9	308.5	308.1
125°	341.3	341.0	340.8	340.7	340.6	340.4	340.4
127.5°	372.6	372.5	372.3	372.0	371.8	371.6	371.4
130°	393.2	393.1	392.9	392.7	392.5	392.2	392.0
132.5°	413.0	412.9	412.6	412.4	412.0	411.7	411.3
135°	443.6	443.6	443.4	442.9	442.4	442.0	441.5
137.5°	473.3	473.5	473.3	472.7	472.1	471.6	470.9
140°	492.2	492.4	492.2	491.6	491.1	490.4	489.8
142.5°	510.4	510.5	510.3	509.7	509.1	508.5	507.9
145°	536.6	536.6	536.4	536.1	535.7	535.4	535.0
147.5°	561.4	561.7	561.4	560.5	559.8	558.9	558.2
150°	576.4	576.4	576.3	576.1	575.8	575.6	575.3
152.5°	591.1	591.4	591.3	590.8	590.4	589.9	589.6
155°	611.7	612.2	612.2	611.5	611.0	610.3	609.7
157.5°	629.4	629.9	629.8	629.0	628.2	627.5	626.6
160°	640.2	640.6	640.6	640.1	639.4	638.9	638.3
162.5°	650.4	651.0	650.9	650.3	649.5	648.8	648.1
165°	663.8	664.4	664.2	663.5	662.8	662.0	661.4
167.5°	674.2	674.9	674.9	674.1	673.4	672.6	671.9
170°	680.1	680.9	680.8	680.0	679.2	678.3	677.5
172.5°	684.5	685.2	685.2	684.5	683.7	683.0	682.2
175°	689.3	690.0	689.9	689.2	688.3	687.5	686.6
177.5°	691.4	691.9	691.9	691.3	690.6	689.8	689.2
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0

(END OF REPORT)