

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: P333401-840

Luminaire Tested: **S125DIW-S850D470U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333401-840  
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: S125DIW-S850D470U840-4F0-1E-UDD-A1  
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 850 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

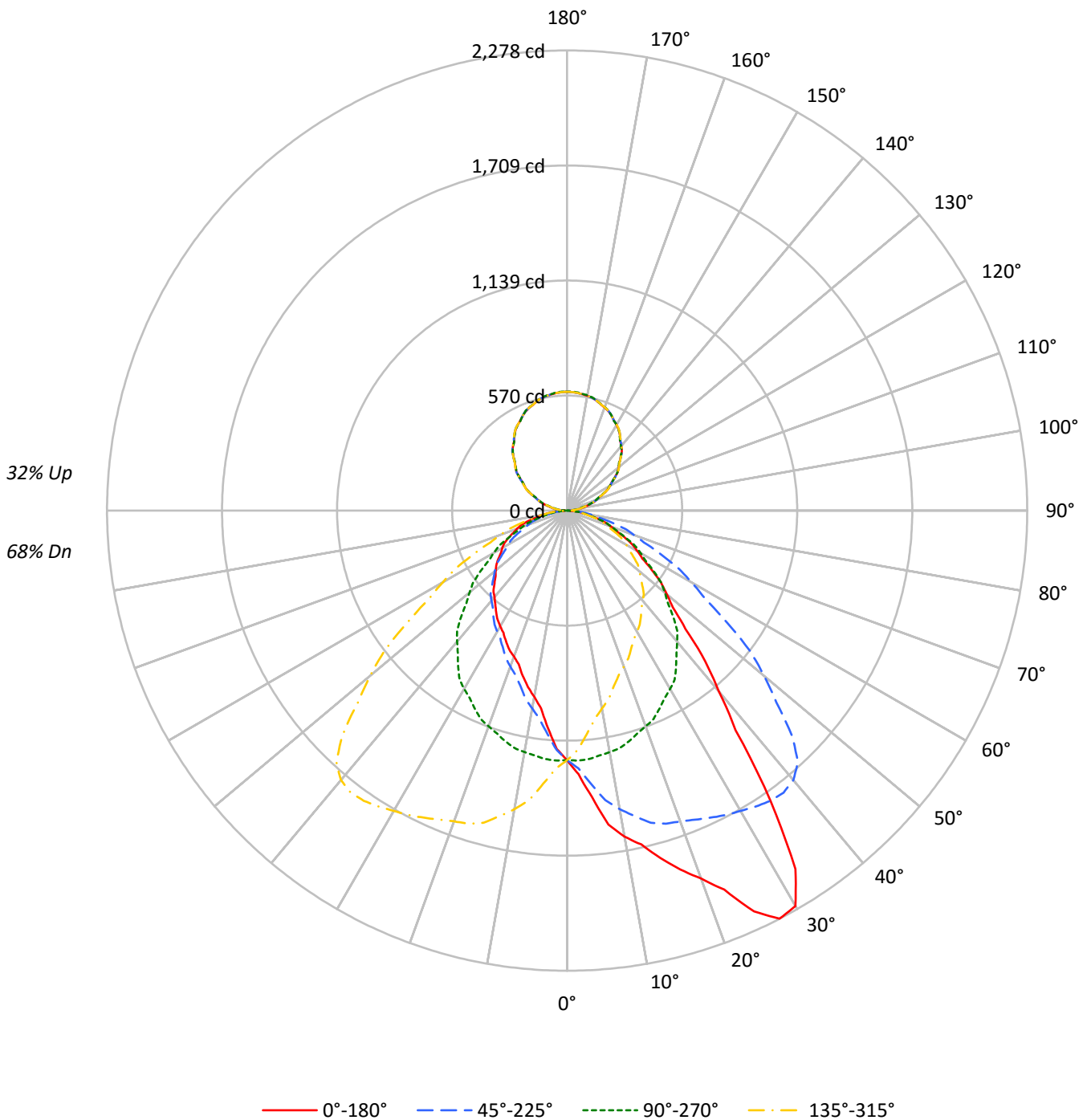
Lumens per Lamp: N/A  
Luminaire Lumens: 5128.7 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 37.7  
Input Voltage (V): 120  
Input Current (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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	102	98	94	90	96	92	89	86	82	80	77	73	71	70	65	63	62	58
2	93	86	80	74	88	81	76	71	73	68	65	65	61	59	57	55	53	49
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	51	44	38	46	40	36	42	37	33	37	33	30	28
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	27	24
8	57	44	37	31	54	42	35	30	39	32	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

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

	0°	90°	180°	270°
0°	7979	7979	7979	7979
5°	9240	8006	7010	8006
10°	10750	7965	6142	7965
15°	11900	7906	5666	7906
20°	13320	7813	5283	7813
25°	15605	7709	5097	7709
30°	16855	7607	4935	7607
35°	13858	7413	4829	7413
40°	9850	7144	4713	7144
45°	7567	6783	4646	6783
50°	6459	6333	4636	6333
55°	5751	5892	4677	5892
60°	5187	5412	4795	5412
65°	4792	4927	4919	4927
70°	4358	4426	4991	4426
75°	3848	3898	4946	3898
80°	3239	3176	4526	3176
85°	2564	2290	3653	2290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	2.3
10°-20°	354.1	6.9
20°-30°	575.0	11.2
30°-40°	701.4	13.7
40°-50°	638.1	12.4
50°-60°	508.2	9.9
60°-70°	354.0	6.9
70°-80°	188.8	3.7
80°-90°	48.9	1.0
90°-100°	39.4	0.8
100°-110°	116.3	2.3
110°-120°	197.1	3.8
120°-130°	259.3	5.1
130°-140°	290.6	5.7
140°-150°	284.8	5.6
150°-160°	239.2	4.7
160°-170°	159.0	3.1
170°-180°	55.6	1.1
0°-30°	1048.1	20.4
0°-40°	1749.5	34.1
0°-60°	2895.8	56.5
0°-90°	3487.5	68.0
90°-120°	352.8	6.9
90°-150°	1187.4	23.2
90°-180°	1641.0	32.0
0°-180°	5128.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1236	1236	1236	1236	1236	
5°	1425	1235	1081	1235	1425	144
15°	1780	1182	847	1182	1780	509
25°	2190	1082	715	1082	2190	1000
35°	1758	940	612	940	1758	1076
45°	828	743	509	743	828	663
55°	511	523	415	523	511	460
65°	314	322	322	322	314	311
75°	154	156	198	156	154	166
85°	35	31	49	31	35	40
90°	11	0	11	0	11	8
95°	39	30	39	30	39	40
105°	114	104	114	104	114	120
115°	199	197	199	197	199	197
125°	290	288	290	288	290	259
135°	376	374	376	374	376	290
145°	455	454	455	454	455	284
155°	519	519	519	519	519	239
165°	563	564	563	564	563	159
175°	584	587	584	587	584	56
180°	588	588	588	588	588	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1306.8	1305.0	1303.4	1300.0	1302.5	1295.5	1292.0	1286.2	1279.1	1276.6	1273.6
5°	1425.2	1427.8	1430.5	1419.5	1420.6	1413.2	1396.4	1382.8	1371.8	1357.7	1347.7
7.5°	1567.9	1561.7	1561.2	1554.1	1541.8	1532.0	1514.3	1491.9	1470.2	1445.4	1424.9
10°	1639.2	1639.7	1635.0	1626.6	1613.6	1604.1	1581.0	1558.9	1532.3	1500.8	1478.2
12.5°	1692.9	1695.1	1689.1	1677.8	1671.4	1650.2	1632.1	1606.0	1574.2	1549.0	1514.7
15°	1779.8	1773.9	1769.8	1755.7	1744.6	1722.6	1693.7	1666.5	1631.8	1599.8	1567.9
17.5°	1863.4	1868.0	1860.2	1847.2	1813.1	1787.4	1748.7	1711.3	1668.3	1625.4	1587.2
20°	1938.1	1942.3	1930.3	1907.7	1866.8	1841.1	1790.2	1742.0	1692.1	1637.1	1595.2
22.5°	2031.2	2027.9	2011.7	1977.3	1941.9	1894.4	1839.3	1780.6	1718.2	1656.0	1600.2
25°	2189.8	2167.8	2157.8	2115.4	2068.7	1998.9	1923.4	1837.4	1759.8	1677.5	1606.2
27.5°	2277.6	2270.8	2259.7	2230.1	2181.0	2106.5	2017.4	1912.6	1803.1	1699.2	1605.9
30°	2260.1	2261.1	2262.2	2252.7	2221.3	2165.2	2076.6	1963.8	1833.7	1716.8	1608.8
32.5°	2104.1	2123.1	2141.3	2162.9	2171.7	2161.0	2105.5	2003.7	1869.9	1737.0	1607.1
35°	1757.7	1763.5	1822.7	1881.5	1961.2	2023.1	2064.5	2019.4	1906.6	1754.0	1605.1
37.5°	1370.5	1398.9	1439.9	1506.2	1621.2	1724.2	1856.7	1917.6	1881.3	1759.6	1601.4
40°	1168.3	1194.6	1221.2	1288.9	1385.9	1510.8	1661.2	1789.7	1819.6	1742.0	1588.8
42.5°	1012.3	1033.0	1062.7	1113.6	1194.7	1305.1	1449.0	1616.9	1720.2	1690.8	1562.5
45°	828.5	841.6	864.7	905.0	963.8	1050.4	1177.2	1360.8	1520.7	1573.7	1499.8
47.5°	709.1	709.0	727.0	754.9	797.3	870.8	964.6	1108.4	1279.3	1405.6	1399.8
50°	642.9	640.3	654.4	678.5	712.1	760.8	850.5	965.3	1129.5	1272.6	1312.5
52.5°	585.8	586.1	594.8	612.7	640.8	682.5	749.4	852.9	993.2	1140.1	1215.2
55°	510.8	508.7	518.6	530.7	551.1	578.3	626.6	705.8	819.6	964.3	1061.9
57.5°	441.9	447.7	451.7	460.1	477.1	495.3	536.0	594.1	684.4	808.6	911.7
60°	401.6	407.5	410.6	419.0	432.6	448.4	479.8	527.0	603.0	710.0	812.2
62.5°	365.6	370.1	371.1	378.7	389.8	405.2	429.9	469.5	529.6	623.2	723.4
65°	313.6	313.6	315.7	323.6	328.8	342.4	361.3	390.1	438.4	511.3	596.7
67.5°	263.5	266.0	265.4	268.9	273.8	284.3	297.8	321.6	357.4	410.6	479.0
70°	230.8	232.8	232.3	234.9	240.1	247.0	258.0	280.5	306.2	351.8	410.6
72.5°	201.4	202.2	200.9	204.3	207.4	213.4	225.7	237.7	261.8	300.2	348.5
75°	154.2	155.2	156.2	158.3	161.5	164.6	171.0	183.0	198.7	227.6	258.5
77.5°	115.5	113.6	116.1	115.8	117.5	120.0	125.5	131.9	144.8	163.1	187.0
80°	87.1	87.6	87.6	88.1	90.7	92.3	97.0	101.7	111.7	125.3	142.1
82.5°	63.5	64.9	64.1	65.0	67.3	68.4	71.0	74.8	80.7	91.4	103.5
85°	34.6	32.0	33.0	34.1	34.1	34.6	36.7	38.3	41.4	45.6	50.3
87.5°	12.2	13.0	13.4	13.3	13.7	13.6	15.1	15.0	16.3	17.4	19.0
90°	11.0	10.7	10.4	10.1	9.8	9.4	8.9	8.4	7.9	7.4	6.6
92.5°	21.6	21.4	21.1	20.9	20.7	20.3	19.6	18.9	18.3	17.6	16.7
95°	39.4	39.2	39.0	38.8	38.6	38.1	37.4	36.7	36.0	35.2	34.2
97.5°	59.7	59.6	59.5	59.3	59.2	58.8	58.2	57.5	56.8	56.1	54.7
100°	75.0	74.8	74.6	74.4	74.2	73.7	72.8	71.9	71.0	70.0	68.7
102.5°	90.5	90.2	89.9	89.6	89.3	88.7	87.7	86.6	85.6	84.6	84.0
105°	113.5	113.2	112.9	112.6	112.3	111.8	111.2	110.6	110.0	109.4	108.8
107.5°	137.1	137.1	137.1	137.2	137.2	137.0	136.7	136.4	136.1	135.8	135.4
110°	154.7	154.8	154.9	155.0	155.1	155.0	154.7	154.4	154.1	153.8	153.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	171.9	172.1	172.3	172.5	172.7	172.7	172.5	172.4	172.3	172.1	171.7
115°	199.1	199.2	199.3	199.4	199.5	199.7	199.8	199.9	200.0	200.1	199.9
117.5°	225.6	226.0	226.5	226.9	227.3	227.4	227.3	227.3	227.2	227.1	226.9
120°	244.0	244.4	244.8	245.2	245.6	245.8	245.8	245.8	245.8	245.8	245.7
122.5°	262.3	262.6	263.0	263.3	263.6	263.8	263.9	264.0	264.0	264.1	263.9
125°	289.7	289.8	289.9	290.0	290.1	290.3	290.5	290.7	290.9	291.1	291.0
127.5°	316.1	316.3	316.5	316.7	316.9	317.1	317.2	317.3	317.4	317.5	317.3
130°	333.7	333.9	334.1	334.3	334.5	334.7	334.8	334.9	335.0	335.1	334.9
132.5°	350.1	350.4	350.7	351.0	351.3	351.4	351.5	351.6	351.7	351.8	351.9
135°	375.8	376.2	376.6	377.0	377.4	377.6	377.6	377.6	377.6	377.6	377.5
137.5°	400.8	401.3	401.9	402.4	402.9	403.1	402.9	402.8	402.7	402.6	402.3
140°	417.0	417.5	418.0	418.5	419.0	419.2	419.0	418.8	418.6	418.4	418.1
142.5°	432.3	432.8	433.3	433.8	434.3	434.5	434.4	434.3	434.2	434.1	433.7
145°	455.4	455.8	456.1	456.4	456.7	456.8	456.8	456.8	456.8	456.8	456.5
147.5°	475.1	475.7	476.5	477.2	477.9	478.1	477.9	477.6	477.4	477.2	476.9
150°	489.8	490.0	490.2	490.4	490.6	490.7	490.7	490.7	490.7	490.7	490.3
152.5°	501.8	502.2	502.6	502.9	503.3	503.3	503.1	502.9	502.6	502.4	502.2
155°	519.1	519.6	520.1	520.6	521.1	521.1	520.7	520.3	519.9	519.5	519.4
157.5°	533.4	534.1	534.7	535.4	536.1	536.2	535.8	535.4	535.0	534.6	534.5
160°	543.3	543.8	544.3	544.8	545.3	545.4	545.0	544.6	544.2	543.7	543.6
162.5°	551.7	552.3	552.9	553.5	554.1	554.1	553.6	553.2	552.7	552.2	552.2
165°	563.0	563.6	564.2	564.8	565.4	565.5	565.1	564.7	564.3	563.9	563.8
167.5°	572.0	572.6	573.2	573.8	574.5	574.5	573.9	573.3	572.7	572.1	572.1
170°	576.7	577.4	578.1	578.9	579.6	579.7	579.0	578.3	577.7	577.1	577.1
172.5°	580.8	581.4	582.0	582.6	583.3	583.3	582.7	582.1	581.5	580.9	580.9
175°	584.5	585.2	585.9	586.6	587.3	587.4	586.8	586.1	585.5	584.9	584.9
177.5°	586.7	587.2	587.8	588.4	589.0	589.1	588.5	588.0	587.5	587.0	587.1
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1271.1	1268.2	1264.8	1258.9	1251.8	1248.0	1242.1	1238.4	1230.8	1224.6	1217.8
5°	1335.5	1321.9	1309.4	1293.1	1275.3	1263.7	1250.1	1234.9	1219.2	1203.0	1185.1
7.5°	1402.4	1378.3	1352.0	1323.8	1296.3	1270.9	1246.7	1222.8	1200.6	1173.8	1151.0
10°	1447.2	1416.8	1384.3	1346.0	1308.9	1276.4	1243.3	1214.5	1185.1	1153.7	1125.8
12.5°	1492.2	1451.7	1405.7	1363.7	1318.9	1279.7	1240.8	1204.0	1167.1	1132.3	1099.8
15°	1523.9	1488.1	1445.7	1385.9	1335.5	1281.6	1230.2	1182.5	1137.9	1099.1	1058.2
17.5°	1544.7	1498.7	1453.2	1395.8	1329.8	1269.4	1211.2	1156.6	1106.3	1057.1	1017.7
20°	1548.5	1501.3	1453.6	1397.5	1329.8	1260.6	1202.4	1136.8	1082.9	1032.0	983.7
22.5°	1547.2	1493.8	1441.8	1384.0	1318.1	1254.4	1184.0	1117.1	1058.5	1008.5	958.2
25°	1535.4	1478.2	1413.2	1355.0	1290.0	1222.3	1151.0	1081.8	1022.0	964.8	915.0
27.5°	1525.5	1451.4	1377.8	1309.9	1247.1	1185.1	1116.8	1045.9	979.7	921.7	874.7
30°	1513.4	1432.1	1349.2	1278.4	1214.0	1153.7	1089.1	1020.0	950.7	894.0	843.7
32.5°	1502.5	1407.8	1320.3	1243.2	1174.9	1116.3	1056.8	991.0	923.0	865.6	815.2
35°	1481.4	1371.8	1271.6	1184.6	1111.7	1051.4	1001.6	940.2	877.8	822.2	774.0
37.5°	1454.6	1324.5	1217.1	1125.8	1045.9	982.4	936.0	888.9	829.0	775.5	731.8
40°	1433.6	1291.0	1177.2	1083.9	1001.1	934.9	892.0	847.4	797.6	747.8	701.7
42.5°	1407.2	1260.8	1137.0	1036.5	954.4	890.1	845.0	807.1	763.2	716.7	673.9
45°	1358.7	1206.1	1071.9	963.8	880.9	817.5	770.8	742.6	709.5	665.4	629.2
47.5°	1287.3	1140.3	1001.5	890.0	804.5	745.7	702.0	674.8	651.5	618.7	585.9
50°	1223.9	1091.3	950.7	840.0	754.6	695.3	655.0	630.3	610.4	585.2	557.4
52.5°	1153.0	1029.6	900.8	791.4	706.8	648.3	608.8	587.1	570.6	552.5	525.1
55°	1040.4	935.5	816.0	712.1	634.0	576.8	542.2	523.3	509.7	496.0	479.3
57.5°	916.3	834.2	728.3	633.5	561.5	509.5	477.2	458.8	448.3	441.2	431.3
60°	829.0	758.8	667.5	581.0	510.8	464.6	433.1	419.0	410.1	404.2	397.0
62.5°	748.1	690.4	605.8	526.8	465.4	421.8	393.7	380.0	371.4	368.6	362.5
65°	628.7	584.2	514.4	448.9	396.5	359.2	335.6	322.4	317.2	314.1	314.7
67.5°	511.2	484.0	428.0	372.1	330.2	299.0	280.1	270.0	267.4	263.3	263.2
70°	439.4	419.0	371.8	323.1	285.8	261.7	244.9	234.4	231.8	229.6	229.1
72.5°	376.1	358.2	317.2	278.1	244.7	223.5	209.6	203.4	199.0	197.8	197.7
75°	282.7	272.7	240.1	209.2	186.1	171.5	162.1	156.2	153.1	152.6	153.1
77.5°	201.0	192.3	171.6	149.7	135.1	124.0	116.0	114.0	110.5	110.6	110.0
80°	151.0	145.2	132.2	114.8	102.8	93.3	89.2	85.4	84.4	82.8	84.4
82.5°	109.5	103.3	94.4	83.4	73.4	67.8	63.5	62.4	61.8	61.0	61.4
85°	54.0	54.5	49.3	40.9	36.7	33.5	30.9	30.9	30.4	29.9	30.4
87.5°	19.6	18.7	16.9	15.5	13.1	11.7	11.2	11.4	10.3	10.1	10.6
90°	5.9	5.2	4.4	3.7	2.9	2.1	1.3	0.5	1.3	2.1	2.9
92.5°	15.9	14.9	14.0	13.3	12.8	12.2	11.6	11.1	11.6	12.2	12.8
95°	33.2	32.2	31.2	30.6	30.4	30.2	30.0	29.8	30.0	30.2	30.4
97.5°	53.3	51.9	50.5	49.8	49.7	49.6	49.5	49.4	49.5	49.6	49.7
100°	67.4	66.0	64.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
102.5°	83.3	82.7	82.0	81.5	81.1	80.7	80.2	79.8	80.2	80.7	81.1
105°	108.2	107.6	106.9	106.4	105.8	105.3	104.8	104.3	104.8	105.3	105.8
107.5°	134.9	134.4	134.0	133.5	133.0	132.5	132.0	131.5	132.0	132.5	133.0
110°	153.2	152.9	152.6	152.2	151.7	151.2	150.7	150.2	150.7	151.2	151.7





TEST NUMBER: P333401-840

CATALOG NUMBER: S125DIW-S850D470U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	171.4	171.0	170.6	170.3	170.0	169.7	169.5	169.2	169.5	169.7	170.0
115°	199.7	199.4	199.2	198.9	198.5	198.1	197.6	197.2	197.6	198.1	198.5
117.5°	226.7	226.6	226.4	226.2	226.0	225.8	225.6	225.5	225.6	225.8	226.0
120°	245.6	245.5	245.4	245.1	244.6	244.1	243.6	243.1	243.6	244.1	244.6
122.5°	263.6	263.3	263.1	262.8	262.7	262.5	262.3	262.1	262.3	262.5	262.7
125°	290.9	290.8	290.7	290.3	289.7	289.1	288.5	287.9	288.5	289.1	289.7
127.5°	317.2	317.1	317.0	316.8	316.4	316.1	315.7	315.4	315.7	316.1	316.4
130°	334.7	334.5	334.3	333.9	333.4	332.9	332.3	331.8	332.3	332.9	333.4
132.5°	351.9	352.0	352.0	351.6	350.8	350.0	349.1	348.3	349.1	350.0	350.8
135°	377.4	377.3	377.2	376.9	376.3	375.7	375.1	374.4	375.1	375.7	376.3
137.5°	402.1	401.9	401.7	401.3	400.7	400.1	399.5	398.9	399.5	400.1	400.7
140°	417.8	417.5	417.2	416.7	416.2	415.7	415.2	414.7	415.2	415.7	416.2
142.5°	433.3	432.9	432.5	432.1	431.7	431.3	430.8	430.4	430.8	431.3	431.7
145°	456.2	455.9	455.6	455.2	454.8	454.4	454.0	453.6	454.0	454.4	454.8
147.5°	476.7	476.4	476.2	475.9	475.6	475.4	475.2	475.0	475.2	475.4	475.6
150°	489.9	489.5	489.1	488.9	489.0	489.1	489.2	489.3	489.2	489.1	489.0
152.5°	502.1	501.9	501.7	501.6	501.4	501.3	501.2	501.0	501.2	501.3	501.4
155°	519.3	519.2	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1
157.5°	534.4	534.3	534.2	534.2	534.5	534.7	534.9	535.1	534.9	534.7	534.5
160°	543.5	543.4	543.3	543.4	543.7	544.0	544.4	544.7	544.4	544.0	543.7
162.5°	552.1	552.1	552.1	552.2	552.4	552.7	552.9	553.1	552.9	552.7	552.4
165°	563.7	563.6	563.5	563.5	563.7	563.9	564.1	564.3	564.1	563.9	563.7
167.5°	572.1	572.1	572.1	572.3	572.7	573.1	573.5	573.9	573.5	573.1	572.7
170°	577.1	577.1	577.1	577.3	577.7	578.1	578.6	579.0	578.6	578.1	577.7
172.5°	580.9	580.9	580.9	581.1	581.5	581.9	582.3	582.7	582.3	581.9	581.5
175°	584.9	584.9	584.9	585.1	585.5	585.9	586.3	586.8	586.3	585.9	585.5
177.5°	587.2	587.3	587.3	587.5	587.9	588.2	588.5	588.9	588.5	588.2	587.9
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333401-840

CATALOG NUMBER: S125DIW-S850D470U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1214.1	1209.4	1205.7	1197.3	1192.7	1186.4	1181.3	1186.8	1180.9	1183.5	1179.6
5°	1176.2	1161.5	1151.0	1135.8	1122.7	1110.6	1101.8	1100.1	1095.9	1093.9	1087.5
7.5°	1130.6	1112.3	1094.3	1074.4	1057.5	1040.5	1029.6	1020.6	1014.6	1006.7	1001.4
10°	1103.8	1079.1	1058.2	1034.1	1013.1	994.7	980.1	972.7	965.9	955.9	952.3
12.5°	1070.7	1045.2	1019.6	993.8	973.7	953.2	940.6	929.5	924.8	913.5	912.4
15°	1031.0	992.7	967.5	941.3	913.4	896.7	886.2	874.1	868.9	861.0	855.3
17.5°	983.5	949.4	917.9	890.7	866.9	852.7	839.7	831.4	822.4	817.3	807.9
20°	949.2	916.7	885.1	856.3	838.0	821.7	811.2	803.3	794.0	791.3	781.8
22.5°	920.2	884.3	854.1	829.9	809.8	791.5	780.1	774.9	768.3	760.2	758.3
25°	873.1	835.9	810.2	786.1	768.2	751.4	743.6	736.8	730.4	724.7	722.6
27.5°	832.4	799.1	768.6	746.8	731.3	716.0	709.0	700.7	696.2	691.6	685.9
30°	803.9	769.8	743.1	722.1	705.3	691.7	684.3	678.5	674.4	670.1	667.0
32.5°	774.5	743.0	717.0	696.5	679.7	669.4	662.9	658.8	654.2	649.1	645.2
35°	735.7	701.0	675.9	658.1	645.0	637.1	629.8	626.1	620.9	620.9	616.6
37.5°	692.0	662.1	639.9	623.6	611.9	604.8	596.8	594.3	591.0	588.8	587.3
40°	666.0	638.1	617.2	601.0	588.3	582.6	576.3	572.1	570.0	567.3	566.3
42.5°	639.1	612.6	592.5	577.4	566.5	561.6	555.7	552.8	548.6	545.1	544.5
45°	598.3	572.6	554.3	542.2	532.8	527.0	523.3	517.1	514.9	510.8	510.2
47.5°	559.6	534.9	516.9	507.1	498.8	494.0	488.3	482.0	479.6	477.5	477.3
50°	530.7	508.2	491.3	481.9	474.0	467.3	461.4	457.3	455.7	455.7	456.8
52.5°	501.3	482.1	467.9	456.4	448.9	441.6	436.3	433.7	431.3	433.8	435.8
55°	458.3	438.9	428.4	417.4	410.1	401.6	399.1	398.0	396.5	400.6	402.7
57.5°	412.8	399.2	386.9	376.0	369.4	364.6	361.0	360.3	363.2	365.3	372.1
60°	383.8	368.1	357.1	348.7	340.8	337.7	336.7	335.6	337.7	343.5	352.3
62.5°	351.9	339.2	327.3	321.0	315.3	310.0	309.8	310.4	314.7	321.2	330.1
65°	305.2	294.2	286.3	278.9	274.3	271.1	272.2	274.3	278.9	287.9	297.8
67.5°	257.7	250.1	243.1	237.1	232.6	232.6	233.7	236.8	242.4	252.7	261.8
70°	227.0	218.6	212.9	210.3	206.6	204.5	207.6	212.9	217.6	227.0	234.9
72.5°	196.4	189.3	184.8	183.0	181.5	179.8	180.8	186.4	192.9	202.3	211.5
75°	151.0	148.3	145.2	143.2	141.6	142.6	143.7	149.0	154.2	164.1	174.6
77.5°	110.2	107.4	105.6	105.1	104.2	104.7	107.8	111.6	116.7	124.0	131.9
80°	83.4	82.3	81.3	80.8	80.8	81.3	85.4	88.1	92.8	99.7	105.9
82.5°	60.7	60.1	59.9	59.8	60.2	60.3	62.8	66.2	70.2	75.3	80.8
85°	32.0	30.9	32.5	33.0	32.0	33.5	34.6	36.7	38.3	40.9	43.5
87.5°	11.2	12.2	11.9	12.5	12.6	13.6	13.3	15.0	16.1	17.0	16.7
90°	3.7	4.4	5.2	5.9	6.6	7.4	7.9	8.4	8.9	9.4	9.8
92.5°	13.3	14.0	14.9	15.9	16.7	17.6	18.3	18.9	19.6	20.3	20.7
95°	30.6	31.2	32.2	33.2	34.2	35.2	36.0	36.7	37.4	38.1	38.6
97.5°	49.8	50.5	51.9	53.3	54.7	56.1	56.8	57.5	58.2	58.8	59.2
100°	64.1	64.7	66.0	67.4	68.7	70.0	71.0	71.9	72.8	73.7	74.2
102.5°	81.5	82.0	82.7	83.3	84.0	84.6	85.6	86.6	87.7	88.7	89.3
105°	106.4	106.9	107.6	108.2	108.8	109.4	110.0	110.6	111.2	111.8	112.3
107.5°	133.5	134.0	134.4	134.9	135.4	135.8	136.1	136.4	136.7	137.0	137.2
110°	152.2	152.6	152.9	153.2	153.5	153.8	154.1	154.4	154.7	155.0	155.1



TEST NUMBER: P333401-840

CATALOG NUMBER: S125DIW-S850D470U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.3	170.6	171.0	171.4	171.7	172.1	172.3	172.4	172.5	172.7	172.7
115°	198.9	199.2	199.4	199.7	199.9	200.1	200.0	199.9	199.8	199.7	199.5
117.5°	226.2	226.4	226.6	226.7	226.9	227.1	227.2	227.3	227.3	227.4	227.3
120°	245.1	245.4	245.5	245.6	245.7	245.8	245.8	245.8	245.8	245.8	245.6
122.5°	262.8	263.1	263.3	263.6	263.9	264.1	264.0	264.0	263.9	263.8	263.6
125°	290.3	290.7	290.8	290.9	291.0	291.1	290.9	290.7	290.5	290.3	290.1
127.5°	316.8	317.0	317.1	317.2	317.3	317.5	317.4	317.3	317.2	317.1	316.9
130°	333.9	334.3	334.5	334.7	334.9	335.1	335.0	334.9	334.8	334.7	334.5
132.5°	351.6	352.0	352.0	351.9	351.9	351.8	351.7	351.6	351.5	351.4	351.3
135°	376.9	377.2	377.3	377.4	377.5	377.6	377.6	377.6	377.6	377.6	377.4
137.5°	401.3	401.7	401.9	402.1	402.3	402.6	402.7	402.8	402.9	403.1	402.9
140°	416.7	417.2	417.5	417.8	418.1	418.4	418.6	418.8	419.0	419.2	419.0
142.5°	432.1	432.5	432.9	433.3	433.7	434.1	434.2	434.3	434.4	434.5	434.3
145°	455.2	455.6	455.9	456.2	456.5	456.8	456.8	456.8	456.8	456.8	456.7
147.5°	475.9	476.2	476.4	476.7	476.9	477.2	477.4	477.6	477.9	478.1	477.9
150°	488.9	489.1	489.5	489.9	490.3	490.7	490.7	490.7	490.7	490.7	490.6
152.5°	501.6	501.7	501.9	502.1	502.2	502.4	502.6	502.9	503.1	503.3	503.3
155°	519.1	519.1	519.2	519.3	519.4	519.5	519.9	520.3	520.7	521.1	521.1
157.5°	534.2	534.2	534.3	534.4	534.5	534.6	535.0	535.4	535.8	536.2	536.1
160°	543.4	543.3	543.4	543.5	543.6	543.7	544.2	544.6	545.0	545.4	545.3
162.5°	552.2	552.1	552.1	552.1	552.2	552.2	552.7	553.2	553.6	554.1	554.1
165°	563.5	563.5	563.6	563.7	563.8	563.9	564.3	564.7	565.1	565.5	565.4
167.5°	572.3	572.1	572.1	572.1	572.1	572.1	572.7	573.3	573.9	574.5	574.5
170°	577.3	577.1	577.1	577.1	577.1	577.1	577.7	578.3	579.0	579.7	579.6
172.5°	581.1	580.9	580.9	580.9	580.9	580.9	581.5	582.1	582.7	583.3	583.3
175°	585.1	584.9	584.9	584.9	584.9	584.9	585.5	586.1	586.8	587.4	587.3
177.5°	587.5	587.3	587.3	587.2	587.1	587.0	587.5	588.0	588.5	589.1	589.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333401-840

CATALOG NUMBER: S125DIW-S850D470U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1177.1	1180.0	1177.5	1180.9	1177.5	1180.0	1177.1	1179.6	1183.5	1180.9	1186.8
5°	1084.9	1080.3	1083.4	1081.3	1083.4	1080.3	1084.9	1087.5	1093.9	1095.9	1100.1
7.5°	999.8	995.2	990.2	987.7	990.2	995.2	999.8	1001.4	1006.7	1014.6	1020.6
10°	946.5	940.7	940.2	936.5	940.2	940.7	946.5	952.3	955.9	965.9	972.7
12.5°	907.5	902.1	896.2	894.6	896.2	902.1	907.5	912.4	913.5	924.8	929.5
15°	852.1	847.9	844.2	847.4	844.2	847.9	852.1	855.3	861.0	868.9	874.1
17.5°	806.1	802.6	801.9	798.1	801.9	802.6	806.1	807.9	817.3	822.4	831.4
20°	777.1	774.5	775.6	768.7	775.6	774.5	777.1	781.8	791.3	794.0	803.3
22.5°	754.1	748.9	748.3	746.9	748.3	748.9	754.1	758.3	760.2	768.3	774.9
25°	717.9	715.3	712.7	715.3	712.7	715.3	717.9	722.6	724.7	730.4	736.8
27.5°	686.3	683.2	682.5	682.8	682.5	683.2	686.3	685.9	691.6	696.2	700.7
30°	667.0	661.8	662.3	661.8	662.3	661.8	667.0	667.0	670.1	674.4	678.5
32.5°	646.0	642.5	641.8	640.8	641.8	642.5	646.0	645.2	649.1	654.2	658.8
35°	615.1	615.1	612.5	612.5	612.5	615.1	615.1	616.6	620.9	620.9	626.1
37.5°	586.0	585.5	583.9	584.2	583.9	585.5	586.0	587.3	588.8	591.0	594.3
40°	564.2	563.7	562.1	559.0	562.1	563.7	564.2	566.3	567.3	570.0	572.1
42.5°	543.2	541.5	540.8	539.7	540.8	541.5	543.2	544.5	545.1	548.6	552.8
45°	510.2	510.2	509.2	508.7	509.2	510.2	510.2	510.2	510.8	514.9	517.1
47.5°	478.2	479.1	481.1	480.8	481.1	479.1	478.2	477.3	477.5	479.6	482.0
50°	458.8	459.4	460.9	461.4	460.9	459.4	458.8	456.8	455.7	455.7	457.3
52.5°	437.5	440.5	442.4	442.1	442.4	440.5	437.5	435.8	433.8	431.3	433.7
55°	407.5	411.1	414.8	415.4	414.8	411.1	407.5	402.7	400.6	396.5	398.0
57.5°	377.8	382.9	386.8	388.0	386.8	382.9	377.8	372.1	365.3	363.2	360.3
60°	357.6	364.5	369.2	371.2	369.2	364.5	357.6	352.3	343.5	337.7	335.6
62.5°	338.3	346.0	350.7	351.1	350.7	346.0	338.3	330.1	321.2	314.7	310.4
65°	306.8	314.7	318.8	321.9	318.8	314.7	306.8	297.8	287.9	278.9	274.3
67.5°	272.8	280.6	285.3	287.8	285.3	280.6	272.8	261.8	252.7	242.4	236.8
70°	248.0	255.9	262.2	264.3	262.2	255.9	248.0	234.9	227.0	217.6	212.9
72.5°	223.7	230.8	235.8	238.2	235.8	230.8	223.7	211.5	202.3	192.9	186.4
75°	181.5	190.9	195.6	198.2	195.6	190.9	181.5	174.6	164.1	154.2	149.0
77.5°	139.9	148.6	151.4	152.7	151.4	148.6	139.9	131.9	124.0	116.7	111.6
80°	112.2	117.4	121.1	121.7	121.1	117.4	112.2	105.9	99.7	92.8	88.1
82.5°	86.2	90.6	91.8	93.1	91.8	90.6	86.2	80.8	75.3	70.2	66.2
85°	47.2	49.3	49.8	49.3	49.8	49.3	47.2	43.5	40.9	38.3	36.7
87.5°	17.6	17.2	17.3	18.2	17.3	17.2	17.6	16.7	17.0	16.1	15.0
90°	10.1	10.4	10.7	11.0	10.7	10.4	10.1	9.8	9.4	8.9	8.4
92.5°	20.9	21.1	21.4	21.6	21.4	21.1	20.9	20.7	20.3	19.6	18.9
95°	38.8	39.0	39.2	39.4	39.2	39.0	38.8	38.6	38.1	37.4	36.7
97.5°	59.3	59.5	59.6	59.7	59.6	59.5	59.3	59.2	58.8	58.2	57.5
100°	74.4	74.6	74.8	75.0	74.8	74.6	74.4	74.2	73.7	72.8	71.9
102.5°	89.6	89.9	90.2	90.5	90.2	89.9	89.6	89.3	88.7	87.7	86.6
105°	112.6	112.9	113.2	113.5	113.2	112.9	112.6	112.3	111.8	111.2	110.6
107.5°	137.2	137.1	137.1	137.1	137.1	137.1	137.2	137.2	137.0	136.7	136.4
110°	155.0	154.9	154.8	154.7	154.8	154.9	155.0	155.1	155.0	154.7	154.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	172.5	172.3	172.1	171.9	172.1	172.3	172.5	172.7	172.7	172.5	172.4
115°	199.4	199.3	199.2	199.1	199.2	199.3	199.4	199.5	199.7	199.8	199.9
117.5°	226.9	226.5	226.0	225.6	226.0	226.5	226.9	227.3	227.4	227.3	227.3
120°	245.2	244.8	244.4	244.0	244.4	244.8	245.2	245.6	245.8	245.8	245.8
122.5°	263.3	263.0	262.6	262.3	262.6	263.0	263.3	263.6	263.8	263.9	264.0
125°	290.0	289.9	289.8	289.7	289.8	289.9	290.0	290.1	290.3	290.5	290.7
127.5°	316.7	316.5	316.3	316.1	316.3	316.5	316.7	316.9	317.1	317.2	317.3
130°	334.3	334.1	333.9	333.7	333.9	334.1	334.3	334.5	334.7	334.8	334.9
132.5°	351.0	350.7	350.4	350.1	350.4	350.7	351.0	351.3	351.4	351.5	351.6
135°	377.0	376.6	376.2	375.8	376.2	376.6	377.0	377.4	377.6	377.6	377.6
137.5°	402.4	401.9	401.3	400.8	401.3	401.9	402.4	402.9	403.1	402.9	402.8
140°	418.5	418.0	417.5	417.0	417.5	418.0	418.5	419.0	419.2	419.0	418.8
142.5°	433.8	433.3	432.8	432.3	432.8	433.3	433.8	434.3	434.5	434.4	434.3
145°	456.4	456.1	455.8	455.4	455.8	456.1	456.4	456.7	456.8	456.8	456.8
147.5°	477.2	476.5	475.7	475.1	475.7	476.5	477.2	477.9	478.1	477.9	477.6
150°	490.4	490.2	490.0	489.8	490.0	490.2	490.4	490.6	490.7	490.7	490.7
152.5°	502.9	502.6	502.2	501.8	502.2	502.6	502.9	503.3	503.3	503.1	502.9
155°	520.6	520.1	519.6	519.1	519.6	520.1	520.6	521.1	521.1	520.7	520.3
157.5°	535.4	534.7	534.1	533.4	534.1	534.7	535.4	536.1	536.2	535.8	535.4
160°	544.8	544.3	543.8	543.3	543.8	544.3	544.8	545.3	545.4	545.0	544.6
162.5°	553.5	552.9	552.3	551.7	552.3	552.9	553.5	554.1	554.1	553.6	553.2
165°	564.8	564.2	563.6	563.0	563.6	564.2	564.8	565.4	565.5	565.1	564.7
167.5°	573.8	573.2	572.6	572.0	572.6	573.2	573.8	574.5	574.5	573.9	573.3
170°	578.9	578.1	577.4	576.7	577.4	578.1	578.9	579.6	579.7	579.0	578.3
172.5°	582.6	582.0	581.4	580.8	581.4	582.0	582.6	583.3	583.3	582.7	582.1
175°	586.6	585.9	585.2	584.5	585.2	585.9	586.6	587.3	587.4	586.8	586.1
177.5°	588.4	587.8	587.2	586.7	587.2	587.8	588.4	589.0	589.1	588.5	588.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333401-840

CATALOG NUMBER: S125DIW-S850D470U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1181.3	1186.4	1192.7	1197.3	1205.7	1209.4	1214.1	1217.8	1224.6	1230.8	1238.4
5°	1101.8	1110.6	1122.7	1135.8	1151.0	1161.5	1176.2	1185.1	1203.0	1219.2	1234.9
7.5°	1029.6	1040.5	1057.5	1074.4	1094.3	1112.3	1130.6	1151.0	1173.8	1200.6	1222.8
10°	980.1	994.7	1013.1	1034.1	1058.2	1079.1	1103.8	1125.8	1153.7	1185.1	1214.5
12.5°	940.6	953.2	973.7	993.8	1019.6	1045.2	1070.7	1099.8	1132.3	1167.1	1204.0
15°	886.2	896.7	913.4	941.3	967.5	992.7	1031.0	1058.2	1099.1	1137.9	1182.5
17.5°	839.7	852.7	866.9	890.7	917.9	949.4	983.5	1017.7	1057.1	1106.3	1156.6
20°	811.2	821.7	838.0	856.3	885.1	916.7	949.2	983.7	1032.0	1082.9	1136.8
22.5°	780.1	791.5	809.8	829.9	854.1	884.3	920.2	958.2	1008.5	1058.5	1117.1
25°	743.6	751.4	768.2	786.1	810.2	835.9	873.1	915.0	964.8	1022.0	1081.8
27.5°	709.0	716.0	731.3	746.8	768.6	799.1	832.4	874.7	921.7	979.7	1045.9
30°	684.3	691.7	705.3	722.1	743.1	769.8	803.9	843.7	894.0	950.7	1020.0
32.5°	662.9	669.4	679.7	696.5	717.0	743.0	774.5	815.2	865.6	923.0	991.0
35°	629.8	637.1	645.0	658.1	675.9	701.0	735.7	774.0	822.2	877.8	940.2
37.5°	596.8	604.8	611.9	623.6	639.9	662.1	692.0	731.8	775.5	829.0	888.9
40°	576.3	582.6	588.3	601.0	617.2	638.1	666.0	701.7	747.8	797.6	847.4
42.5°	555.7	561.6	566.5	577.4	592.5	612.6	639.1	673.9	716.7	763.2	807.1
45°	523.3	527.0	532.8	542.2	554.3	572.6	598.3	629.2	665.4	709.5	742.6
47.5°	488.3	494.0	498.8	507.1	516.9	534.9	559.6	585.9	618.7	651.5	674.8
50°	461.4	467.3	474.0	481.9	491.3	508.2	530.7	557.4	585.2	610.4	630.3
52.5°	436.3	441.6	448.9	456.4	467.9	482.1	501.3	525.1	552.5	570.6	587.1
55°	399.1	401.6	410.1	417.4	428.4	438.9	458.3	479.3	496.0	509.7	523.3
57.5°	361.0	364.6	369.4	376.0	386.9	399.2	412.8	431.3	441.2	448.3	458.8
60°	336.7	337.7	340.8	348.7	357.1	368.1	383.8	397.0	404.2	410.1	419.0
62.5°	309.8	310.0	315.3	321.0	327.3	339.2	351.9	362.5	368.6	371.4	380.0
65°	272.2	271.1	274.3	278.9	286.3	294.2	305.2	314.7	314.1	317.2	322.4
67.5°	233.7	232.6	232.6	237.1	243.1	250.1	257.7	263.2	263.3	267.4	270.0
70°	207.6	204.5	206.6	210.3	212.9	218.6	227.0	229.1	229.6	231.8	234.4
72.5°	180.8	179.8	181.5	183.0	184.8	189.3	196.4	197.7	197.8	199.0	203.4
75°	143.7	142.6	141.6	143.2	145.2	148.3	151.0	153.1	152.6	153.1	156.2
77.5°	107.8	104.7	104.2	105.1	105.6	107.4	110.2	110.0	110.6	110.5	114.0
80°	85.4	81.3	80.8	80.8	81.3	82.3	83.4	84.4	82.8	84.4	85.4
82.5°	62.8	60.3	60.2	59.8	59.9	60.1	60.7	61.4	61.0	61.8	62.4
85°	34.6	33.5	32.0	33.0	32.5	30.9	32.0	30.4	29.9	30.4	30.9
87.5°	13.3	13.6	12.6	12.5	11.9	12.2	11.2	10.6	10.1	10.3	11.4
90°	7.9	7.4	6.6	5.9	5.2	4.4	3.7	2.9	2.1	1.3	0.5
92.5°	18.3	17.6	16.7	15.9	14.9	14.0	13.3	12.8	12.2	11.6	11.1
95°	36.0	35.2	34.2	33.2	32.2	31.2	30.6	30.4	30.2	30.0	29.8
97.5°	56.8	56.1	54.7	53.3	51.9	50.5	49.8	49.7	49.6	49.5	49.4
100°	71.0	70.0	68.7	67.4	66.0	64.7	64.1	64.1	64.1	64.1	64.1
102.5°	85.6	84.6	84.0	83.3	82.7	82.0	81.5	81.1	80.7	80.2	79.8
105°	110.0	109.4	108.8	108.2	107.6	106.9	106.4	105.8	105.3	104.8	104.3
107.5°	136.1	135.8	135.4	134.9	134.4	134.0	133.5	133.0	132.5	132.0	131.5
110°	154.1	153.8	153.5	153.2	152.9	152.6	152.2	151.7	151.2	150.7	150.2



TEST NUMBER: P333401-840

CATALOG NUMBER: S125DIW-S850D470U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	172.3	172.1	171.7	171.4	171.0	170.6	170.3	170.0	169.7	169.5	169.2
115°	200.0	200.1	199.9	199.7	199.4	199.2	198.9	198.5	198.1	197.6	197.2
117.5°	227.2	227.1	226.9	226.7	226.6	226.4	226.2	226.0	225.8	225.6	225.5
120°	245.8	245.8	245.7	245.6	245.5	245.4	245.1	244.6	244.1	243.6	243.1
122.5°	264.0	264.1	263.9	263.6	263.3	263.1	262.8	262.7	262.5	262.3	262.1
125°	290.9	291.1	291.0	290.9	290.8	290.7	290.3	289.7	289.1	288.5	287.9
127.5°	317.4	317.5	317.3	317.2	317.1	317.0	316.8	316.4	316.1	315.7	315.4
130°	335.0	335.1	334.9	334.7	334.5	334.3	333.9	333.4	332.9	332.3	331.8
132.5°	351.7	351.8	351.9	351.9	352.0	352.0	351.6	350.8	350.0	349.1	348.3
135°	377.6	377.6	377.5	377.4	377.3	377.2	376.9	376.3	375.7	375.1	374.4
137.5°	402.7	402.6	402.3	402.1	401.9	401.7	401.3	400.7	400.1	399.5	398.9
140°	418.6	418.4	418.1	417.8	417.5	417.2	416.7	416.2	415.7	415.2	414.7
142.5°	434.2	434.1	433.7	433.3	432.9	432.5	432.1	431.7	431.3	430.8	430.4
145°	456.8	456.8	456.5	456.2	455.9	455.6	455.2	454.8	454.4	454.0	453.6
147.5°	477.4	477.2	476.9	476.7	476.4	476.2	475.9	475.6	475.4	475.2	475.0
150°	490.7	490.7	490.3	489.9	489.5	489.1	488.9	489.0	489.1	489.2	489.3
152.5°	502.6	502.4	502.2	502.1	501.9	501.7	501.6	501.4	501.3	501.2	501.0
155°	519.9	519.5	519.4	519.3	519.2	519.1	519.1	519.1	519.1	519.1	519.1
157.5°	535.0	534.6	534.5	534.4	534.3	534.2	534.2	534.5	534.7	534.9	535.1
160°	544.2	543.7	543.6	543.5	543.4	543.3	543.4	543.7	544.0	544.4	544.7
162.5°	552.7	552.2	552.2	552.1	552.1	552.1	552.2	552.4	552.7	552.9	553.1
165°	564.3	563.9	563.8	563.7	563.6	563.5	563.5	563.7	563.9	564.1	564.3
167.5°	572.7	572.1	572.1	572.1	572.1	572.1	572.3	572.7	573.1	573.5	573.9
170°	577.7	577.1	577.1	577.1	577.1	577.1	577.3	577.7	578.1	578.6	579.0
172.5°	581.5	580.9	580.9	580.9	580.9	580.9	581.1	581.5	581.9	582.3	582.7
175°	585.5	584.9	584.9	584.9	584.9	584.9	585.1	585.5	585.9	586.3	586.8
177.5°	587.5	587.0	587.1	587.2	587.3	587.3	587.5	587.9	588.2	588.5	588.9
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333401-840

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1242.1	1248.0	1251.8	1258.9	1264.8	1268.2	1271.1	1273.6	1276.6	1279.1	1286.2
5°	1250.1	1263.7	1275.3	1293.1	1309.4	1321.9	1335.5	1347.7	1357.7	1371.8	1382.8
7.5°	1246.7	1270.9	1296.3	1323.8	1352.0	1378.3	1402.4	1424.9	1445.4	1470.2	1491.9
10°	1243.3	1276.4	1308.9	1346.0	1384.3	1416.8	1447.2	1478.2	1500.8	1532.3	1558.9
12.5°	1240.8	1279.7	1318.9	1363.7	1405.7	1451.7	1492.2	1514.7	1549.0	1574.2	1606.0
15°	1230.2	1281.6	1335.5	1385.9	1445.7	1488.1	1523.9	1567.9	1599.8	1631.8	1666.5
17.5°	1211.2	1269.4	1329.8	1395.8	1453.2	1498.7	1544.7	1587.2	1625.4	1668.3	1711.3
20°	1202.4	1260.6	1329.8	1397.5	1453.6	1501.3	1548.5	1595.2	1637.1	1692.1	1742.0
22.5°	1184.0	1254.4	1318.1	1384.0	1441.8	1493.8	1547.2	1600.2	1656.0	1718.2	1780.6
25°	1151.0	1222.3	1290.0	1355.0	1413.2	1478.2	1535.4	1606.2	1677.5	1759.8	1837.4
27.5°	1116.8	1185.1	1247.1	1309.9	1377.8	1451.4	1525.5	1605.9	1699.2	1803.1	1912.6
30°	1089.1	1153.7	1214.0	1278.4	1349.2	1432.1	1513.4	1608.8	1716.8	1833.7	1963.8
32.5°	1056.8	1116.3	1174.9	1243.2	1320.3	1407.8	1502.5	1607.1	1737.0	1869.9	2003.7
35°	1001.6	1051.4	1111.7	1184.6	1271.6	1371.8	1481.4	1605.1	1754.0	1906.6	2019.4
37.5°	936.0	982.4	1045.9	1125.8	1217.1	1324.5	1454.6	1601.4	1759.6	1881.3	1917.6
40°	892.0	934.9	1001.1	1083.9	1177.2	1291.0	1433.6	1588.8	1742.0	1819.6	1789.7
42.5°	845.0	890.1	954.4	1036.5	1137.0	1260.8	1407.2	1562.5	1690.8	1720.2	1616.9
45°	770.8	817.5	880.9	963.8	1071.9	1206.1	1358.7	1499.8	1573.7	1520.7	1360.8
47.5°	702.0	745.7	804.5	890.0	1001.5	1140.3	1287.3	1399.8	1405.6	1279.3	1108.4
50°	655.0	695.3	754.6	840.0	950.7	1091.3	1223.9	1312.5	1272.6	1129.5	965.3
52.5°	608.8	648.3	706.8	791.4	900.8	1029.6	1153.0	1215.2	1140.1	993.2	852.9
55°	542.2	576.8	634.0	712.1	816.0	935.5	1040.4	1061.9	964.3	819.6	705.8
57.5°	477.2	509.5	561.5	633.5	728.3	834.2	916.3	911.7	808.6	684.4	594.1
60°	433.1	464.6	510.8	581.0	667.5	758.8	829.0	812.2	710.0	603.0	527.0
62.5°	393.7	421.8	465.4	526.8	605.8	690.4	748.1	723.4	623.2	529.6	469.5
65°	335.6	359.2	396.5	448.9	514.4	584.2	628.7	596.7	511.3	438.4	390.1
67.5°	280.1	299.0	330.2	372.1	428.0	484.0	511.2	479.0	410.6	357.4	321.6
70°	244.9	261.7	285.8	323.1	371.8	419.0	439.4	410.6	351.8	306.2	280.5
72.5°	209.6	223.5	244.7	278.1	317.2	358.2	376.1	348.5	300.2	261.8	237.7
75°	162.1	171.5	186.1	209.2	240.1	272.7	282.7	258.5	227.6	198.7	183.0
77.5°	116.0	124.0	135.1	149.7	171.6	192.3	201.0	187.0	163.1	144.8	131.9
80°	89.2	93.3	102.8	114.8	132.2	145.2	151.0	142.1	125.3	111.7	101.7
82.5°	63.5	67.8	73.4	83.4	94.4	103.3	109.5	103.5	91.4	80.7	74.8
85°	30.9	33.5	36.7	40.9	49.3	54.5	54.0	50.3	45.6	41.4	38.3
87.5°	11.2	11.7	13.1	15.5	16.9	18.7	19.6	19.0	17.4	16.3	15.0
90°	1.3	2.1	2.9	3.7	4.4	5.2	5.9	6.6	7.4	7.9	8.4
92.5°	11.6	12.2	12.8	13.3	14.0	14.9	15.9	16.7	17.6	18.3	18.9
95°	30.0	30.2	30.4	30.6	31.2	32.2	33.2	34.2	35.2	36.0	36.7
97.5°	49.5	49.6	49.7	49.8	50.5	51.9	53.3	54.7	56.1	56.8	57.5
100°	64.1	64.1	64.1	64.1	64.7	66.0	67.4	68.7	70.0	71.0	71.9
102.5°	80.2	80.7	81.1	81.5	82.0	82.7	83.3	84.0	84.6	85.6	86.6
105°	104.8	105.3	105.8	106.4	106.9	107.6	108.2	108.8	109.4	110.0	110.6
107.5°	132.0	132.5	133.0	133.5	134.0	134.4	134.9	135.4	135.8	136.1	136.4
110°	150.7	151.2	151.7	152.2	152.6	152.9	153.2	153.5	153.8	154.1	154.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	169.5	169.7	170.0	170.3	170.6	171.0	171.4	171.7	172.1	172.3	172.4
115°	197.6	198.1	198.5	198.9	199.2	199.4	199.7	199.9	200.1	200.0	199.9
117.5°	225.6	225.8	226.0	226.2	226.4	226.6	226.7	226.9	227.1	227.2	227.3
120°	243.6	244.1	244.6	245.1	245.4	245.5	245.6	245.7	245.8	245.8	245.8
122.5°	262.3	262.5	262.7	262.8	263.1	263.3	263.6	263.9	264.1	264.0	264.0
125°	288.5	289.1	289.7	290.3	290.7	290.8	290.9	291.0	291.1	290.9	290.7
127.5°	315.7	316.1	316.4	316.8	317.0	317.1	317.2	317.3	317.5	317.4	317.3
130°	332.3	332.9	333.4	333.9	334.3	334.5	334.7	334.9	335.1	335.0	334.9
132.5°	349.1	350.0	350.8	351.6	352.0	352.0	351.9	351.9	351.8	351.7	351.6
135°	375.1	375.7	376.3	376.9	377.2	377.3	377.4	377.5	377.6	377.6	377.6
137.5°	399.5	400.1	400.7	401.3	401.7	401.9	402.1	402.3	402.6	402.7	402.8
140°	415.2	415.7	416.2	416.7	417.2	417.5	417.8	418.1	418.4	418.6	418.8
142.5°	430.8	431.3	431.7	432.1	432.5	432.9	433.3	433.7	434.1	434.2	434.3
145°	454.0	454.4	454.8	455.2	455.6	455.9	456.2	456.5	456.8	456.8	456.8
147.5°	475.2	475.4	475.6	475.9	476.2	476.4	476.7	476.9	477.2	477.4	477.6
150°	489.2	489.1	489.0	488.9	489.1	489.5	489.9	490.3	490.7	490.7	490.7
152.5°	501.2	501.3	501.4	501.6	501.7	501.9	502.1	502.2	502.4	502.6	502.9
155°	519.1	519.1	519.1	519.1	519.1	519.2	519.3	519.4	519.5	519.9	520.3
157.5°	534.9	534.7	534.5	534.2	534.2	534.3	534.4	534.5	534.6	535.0	535.4
160°	544.4	544.0	543.7	543.4	543.3	543.4	543.5	543.6	543.7	544.2	544.6
162.5°	552.9	552.7	552.4	552.2	552.1	552.1	552.1	552.2	552.2	552.7	553.2
165°	564.1	563.9	563.7	563.5	563.5	563.6	563.7	563.8	563.9	564.3	564.7
167.5°	573.5	573.1	572.7	572.3	572.1	572.1	572.1	572.1	572.1	572.7	573.3
170°	578.6	578.1	577.7	577.3	577.1	577.1	577.1	577.1	577.1	577.7	578.3
172.5°	582.3	581.9	581.5	581.1	580.9	580.9	580.9	580.9	580.9	581.5	582.1
175°	586.3	585.9	585.5	585.1	584.9	584.9	584.9	584.9	584.9	585.5	586.1
177.5°	588.5	588.2	587.9	587.5	587.3	587.3	587.2	587.1	587.0	587.5	588.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1292.0	1295.5	1302.5	1300.0	1303.4	1305.0	1306.8
5°	1396.4	1413.2	1420.6	1419.5	1430.5	1427.8	1425.2
7.5°	1514.3	1532.0	1541.8	1554.1	1561.2	1561.7	1567.9
10°	1581.0	1604.1	1613.6	1626.6	1635.0	1639.7	1639.2
12.5°	1632.1	1650.2	1671.4	1677.8	1689.1	1695.1	1692.9
15°	1693.7	1722.6	1744.6	1755.7	1769.8	1773.9	1779.8
17.5°	1748.7	1787.4	1813.1	1847.2	1860.2	1868.0	1863.4
20°	1790.2	1841.1	1866.8	1907.7	1930.3	1942.3	1938.1
22.5°	1839.3	1894.4	1941.9	1977.3	2011.7	2027.9	2031.2
25°	1923.4	1998.9	2068.7	2115.4	2157.8	2167.8	2189.8
27.5°	2017.4	2106.5	2181.0	2230.1	2259.7	2270.8	2277.6
30°	2076.6	2165.2	2221.3	2252.7	2262.2	2261.1	2260.1
32.5°	2105.5	2161.0	2171.7	2162.9	2141.3	2123.1	2104.1
35°	2064.5	2023.1	1961.2	1881.5	1822.7	1763.5	1757.7
37.5°	1856.7	1724.2	1621.2	1506.2	1439.9	1398.9	1370.5
40°	1661.2	1510.8	1385.9	1288.9	1221.2	1194.6	1168.3
42.5°	1449.0	1305.1	1194.7	1113.6	1062.7	1033.0	1012.3
45°	1177.2	1050.4	963.8	905.0	864.7	841.6	828.5
47.5°	964.6	870.8	797.3	754.9	727.0	709.0	709.1
50°	850.5	760.8	712.1	678.5	654.4	640.3	642.9
52.5°	749.4	682.5	640.8	612.7	594.8	586.1	585.8
55°	626.6	578.3	551.1	530.7	518.6	508.7	510.8
57.5°	536.0	495.3	477.1	460.1	451.7	447.7	441.9
60°	479.8	448.4	432.6	419.0	410.6	407.5	401.6
62.5°	429.9	405.2	389.8	378.7	371.1	370.1	365.6
65°	361.3	342.4	328.8	323.6	315.7	313.6	313.6
67.5°	297.8	284.3	273.8	268.9	265.4	266.0	263.5
70°	258.0	247.0	240.1	234.9	232.3	232.8	230.8
72.5°	225.7	213.4	207.4	204.3	200.9	202.2	201.4
75°	171.0	164.6	161.5	158.3	156.2	155.2	154.2
77.5°	125.5	120.0	117.5	115.8	116.1	113.6	115.5
80°	97.0	92.3	90.7	88.1	87.6	87.6	87.1
82.5°	71.0	68.4	67.3	65.0	64.1	64.9	63.5
85°	36.7	34.6	34.1	34.1	33.0	32.0	34.6
87.5°	15.1	13.6	13.7	13.3	13.4	13.0	12.2
90°	8.9	9.4	9.8	10.1	10.4	10.7	11.0
92.5°	19.6	20.3	20.7	20.9	21.1	21.4	21.6
95°	37.4	38.1	38.6	38.8	39.0	39.2	39.4
97.5°	58.2	58.8	59.2	59.3	59.5	59.6	59.7
100°	72.8	73.7	74.2	74.4	74.6	74.8	75.0
102.5°	87.7	88.7	89.3	89.6	89.9	90.2	90.5
105°	111.2	111.8	112.3	112.6	112.9	113.2	113.5
107.5°	136.7	137.0	137.2	137.2	137.1	137.1	137.1
110°	154.7	155.0	155.1	155.0	154.9	154.8	154.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	172.5	172.7	172.7	172.5	172.3	172.1	171.9
115°	199.8	199.7	199.5	199.4	199.3	199.2	199.1
117.5°	227.3	227.4	227.3	226.9	226.5	226.0	225.6
120°	245.8	245.8	245.6	245.2	244.8	244.4	244.0
122.5°	263.9	263.8	263.6	263.3	263.0	262.6	262.3
125°	290.5	290.3	290.1	290.0	289.9	289.8	289.7
127.5°	317.2	317.1	316.9	316.7	316.5	316.3	316.1
130°	334.8	334.7	334.5	334.3	334.1	333.9	333.7
132.5°	351.5	351.4	351.3	351.0	350.7	350.4	350.1
135°	377.6	377.6	377.4	377.0	376.6	376.2	375.8
137.5°	402.9	403.1	402.9	402.4	401.9	401.3	400.8
140°	419.0	419.2	419.0	418.5	418.0	417.5	417.0
142.5°	434.4	434.5	434.3	433.8	433.3	432.8	432.3
145°	456.8	456.8	456.7	456.4	456.1	455.8	455.4
147.5°	477.9	478.1	477.9	477.2	476.5	475.7	475.1
150°	490.7	490.7	490.6	490.4	490.2	490.0	489.8
152.5°	503.1	503.3	503.3	502.9	502.6	502.2	501.8
155°	520.7	521.1	521.1	520.6	520.1	519.6	519.1
157.5°	535.8	536.2	536.1	535.4	534.7	534.1	533.4
160°	545.0	545.4	545.3	544.8	544.3	543.8	543.3
162.5°	553.6	554.1	554.1	553.5	552.9	552.3	551.7
165°	565.1	565.5	565.4	564.8	564.2	563.6	563.0
167.5°	573.9	574.5	574.5	573.8	573.2	572.6	572.0
170°	579.0	579.7	579.6	578.9	578.1	577.4	576.7
172.5°	582.7	583.3	583.3	582.6	582.0	581.4	580.8
175°	586.8	587.4	587.3	586.6	585.9	585.2	584.5
177.5°	588.5	589.1	589.0	588.4	587.8	587.2	586.7
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1

(END OF REPORT)