

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: P332151-830

Luminaire Tested: **S123DIW-S775D460U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332151-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S775D460U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4582.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

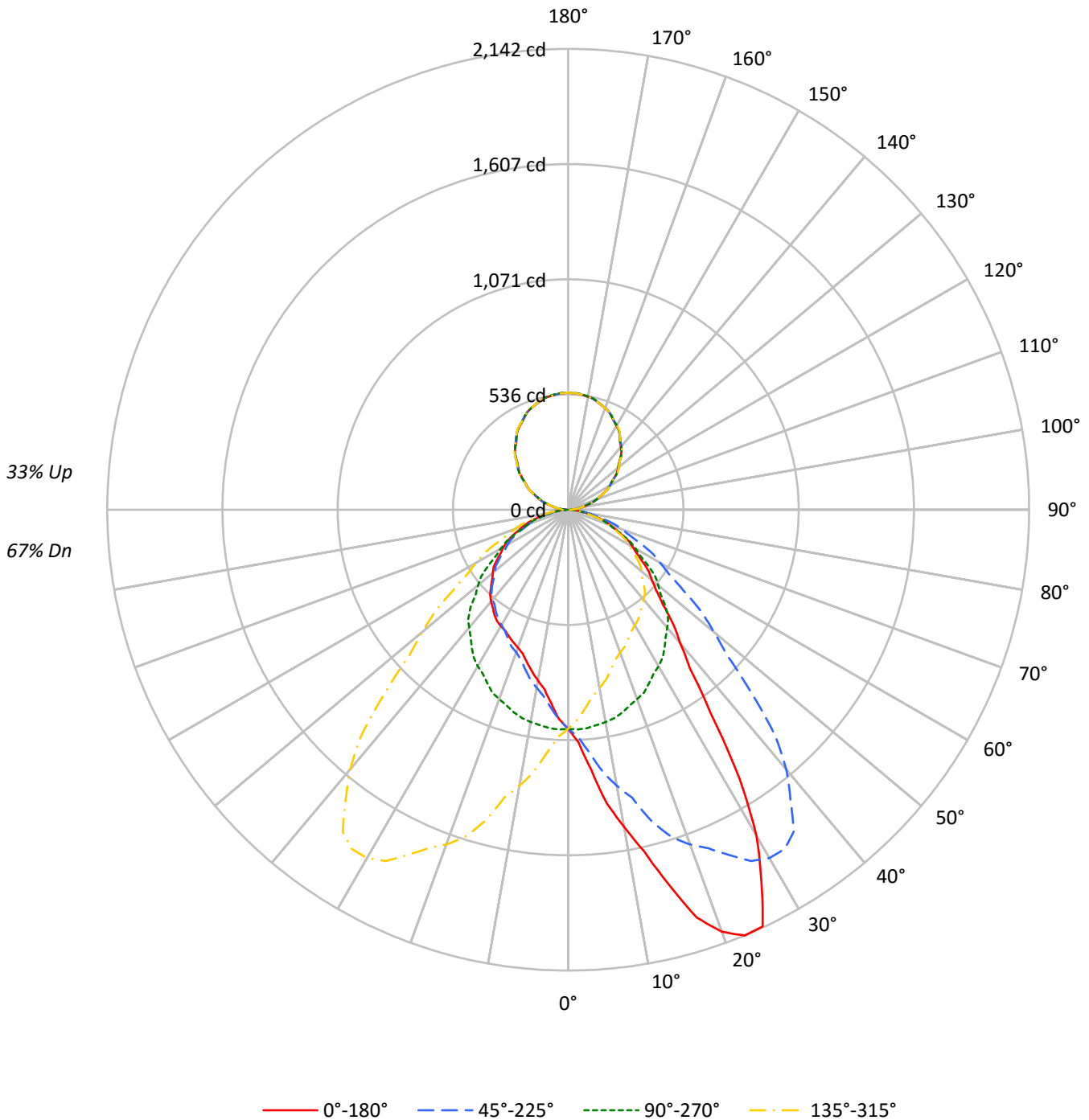
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67								
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	64	63	61	57								
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	49								
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45	41								
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	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	39	46	40	36	42	37	33	37	33	30	28								
7	61	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24								
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22								
9	53	41	33	28	50	39	32	27	35	29	25	32	27	24	29	25	22	20								
10	50	38	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°	10962	10962	10962	10962
5°	13073	11010	9757	11010
10°	16363	10954	8813	10954
15°	20070	10866	8204	10866
20°	23909	10727	7811	10727
25°	25388	10561	7725	10561
30°	21760	10438	7764	10438
35°	15134	10264	7846	10264
40°	11398	10061	7821	10061
45°	9464	9758	7722	9758
50°	8477	9138	7651	9138
55°	7927	8473	7557	8473
60°	7436	7776	7479	7776
65°	6989	7088	7238	7088
70°	6552	6304	6892	6304
75°	5868	5519	6317	5519
80°	5139	4525	5442	4525
85°	4026	3298	3656	3298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	2.2
10°-20°	321.7	7.0
20°-30°	539.9	11.8
30°-40°	611.3	13.3
40°-50°	548.2	12.0
50°-60°	442.4	9.7
60°-70°	308.3	6.7
70°-80°	162.0	3.5
80°-90°	41.2	0.9
90°-100°	35.4	0.8
100°-110°	106.0	2.3
110°-120°	180.3	3.9
120°-130°	237.2	5.2
130°-140°	266.6	5.8
140°-150°	262.1	5.7
150°-160°	220.6	4.8
160°-170°	146.9	3.2
170°-180°	51.4	1.1
0°-30°	961.9	21.0
0°-40°	1573.3	34.3
0°-60°	2563.9	56.0
0°-90°	3075.5	67.1
90°-120°	321.8	7.0
90°-150°	1087.6	23.7
90°-180°	1507.0	32.9
0°-180°	4582.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1018	1018	1018	1018	1018	
5°	1210	1019	903	1019	1210	125
15°	1801	975	736	975	1801	520
25°	2138	889	650	889	2138	937
35°	1152	781	597	781	1152	748
45°	622	641	507	641	622	492
55°	422	452	403	452	422	379
65°	274	278	284	278	274	273
75°	141	133	152	133	141	151
85°	33	27	30	27	33	39
90°	13	0	13	0	13	8
95°	33	25	33	25	33	34
105°	102	96	102	96	102	108
115°	182	182	182	182	182	180
125°	263	266	263	266	263	235
135°	344	345	344	345	344	265
145°	418	418	418	418	418	261
155°	478	479	478	479	478	220
165°	520	522	520	522	520	147
175°	540	542	540	542	540	51
180°	544	544	544	544	544	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1080.8	1080.1	1078.1	1079.7	1076.5	1072.1	1071.8	1067.8	1056.3	1055.6	1052.4
5°	1209.9	1206.0	1205.5	1204.9	1198.1	1188.7	1170.9	1169.4	1145.8	1133.9	1119.6
7.5°	1377.1	1379.1	1372.0	1365.6	1344.5	1330.6	1311.5	1287.1	1258.1	1228.6	1208.9
10°	1497.1	1513.3	1493.2	1479.3	1466.5	1442.3	1414.2	1379.1	1344.2	1303.2	1272.1
12.5°	1625.8	1633.8	1629.8	1616.7	1596.8	1560.0	1510.1	1471.5	1439.3	1371.0	1343.5
15°	1801.0	1831.2	1811.9	1767.5	1768.5	1733.4	1668.3	1596.8	1558.8	1499.0	1417.7
17.5°	1987.7	1991.5	1983.3	1946.4	1921.7	1873.5	1813.4	1744.8	1667.8	1595.5	1509.2
20°	2087.3	2084.2	2067.0	2047.8	2005.4	1967.8	1902.2	1825.7	1727.0	1656.0	1561.7
22.5°	2142.5	2137.6	2129.4	2113.3	2077.9	2037.7	1978.8	1895.2	1801.3	1703.4	1594.5
25°	2137.6	2144.0	2144.9	2140.5	2128.2	2104.0	2057.7	1991.0	1897.2	1771.4	1657.9
27.5°	1944.2	1953.2	1979.6	2003.0	2029.1	2055.8	2052.2	2019.1	1949.7	1841.2	1702.3
30°	1750.7	1731.0	1779.8	1841.5	1883.5	1957.5	1998.9	2001.4	1962.4	1869.2	1733.9
32.5°	1482.2	1504.0	1525.6	1601.5	1693.2	1776.3	1858.8	1925.2	1932.8	1870.8	1752.5
35°	1151.7	1178.8	1218.3	1257.7	1356.5	1441.3	1586.4	1712.7	1813.4	1826.7	1754.2
37.5°	928.0	941.5	966.5	1006.0	1070.5	1171.2	1283.5	1443.1	1588.9	1697.4	1702.1
40°	811.2	815.2	843.3	873.4	925.7	1008.6	1109.7	1250.8	1425.5	1577.1	1640.2
42.5°	723.6	732.3	744.2	773.1	814.7	877.1	971.2	1087.8	1247.9	1422.3	1545.9
45°	621.7	631.6	639.0	658.3	687.9	729.8	795.4	902.0	1023.9	1204.0	1370.3
47.5°	554.4	555.3	560.7	575.2	595.4	626.9	673.3	741.8	853.7	999.7	1170.4
50°	506.2	514.2	516.1	527.4	543.3	566.5	604.9	663.2	755.0	883.3	1040.2
52.5°	472.3	474.7	480.2	488.4	502.2	520.3	553.6	599.3	671.3	780.6	924.9
55°	422.4	422.4	427.8	434.2	442.1	458.4	480.6	514.2	568.9	653.8	773.3
57.5°	376.2	378.6	382.5	384.5	391.2	402.0	420.5	446.0	486.8	552.1	647.1
60°	345.4	349.9	349.4	353.3	359.2	367.6	383.4	404.2	440.6	492.9	572.9
62.5°	318.6	318.3	318.2	322.9	328.9	336.9	347.0	365.0	396.1	442.4	510.5
65°	274.4	273.3	276.8	279.7	281.7	287.7	295.6	311.3	332.1	366.6	419.4
67.5°	235.1	232.2	234.1	235.1	238.5	243.1	250.4	260.2	276.7	304.4	344.2
70°	208.2	205.8	205.3	206.2	209.2	212.6	218.1	227.4	242.8	264.9	294.1
72.5°	180.6	178.9	178.8	181.0	182.4	184.6	188.5	197.1	209.2	225.9	253.1
75°	141.1	141.1	141.1	141.6	143.1	145.1	148.1	152.5	161.8	173.7	191.9
77.5°	105.8	105.7	105.1	105.0	107.2	108.1	108.8	112.9	118.1	126.1	139.4
80°	82.9	80.4	81.4	82.9	83.9	84.4	85.9	86.8	91.3	95.8	105.1
82.5°	61.5	59.5	59.7	62.0	62.2	62.7	64.2	65.5	67.2	71.3	76.3
85°	32.6	32.6	33.1	33.1	33.6	33.1	34.5	35.1	35.1	37.5	40.4
87.5°	14.4	13.6	13.9	14.3	13.9	14.2	14.5	14.8	15.2	15.5	15.6
90°	12.8	12.6	12.4	12.3	12.1	11.8	11.4	11.0	10.7	10.3	9.0
92.5°	17.2	17.3	17.4	17.6	17.7	17.6	17.3	17.0	16.7	16.4	15.7
95°	33.3	33.3	33.3	33.3	33.3	33.1	32.7	32.3	32.0	31.6	30.8
97.5°	51.3	51.3	51.4	51.4	51.4	51.2	50.8	50.3	49.9	49.5	48.9
100°	64.9	64.8	64.6	64.4	64.2	63.9	63.6	63.3	63.1	62.8	62.3
102.5°	78.9	79.0	79.0	79.1	79.1	79.0	78.7	78.4	78.1	77.9	77.2
105°	101.7	101.5	101.3	101.1	100.9	100.8	100.8	100.8	100.8	100.8	99.9
107.5°	125.4	125.5	125.5	125.6	125.7	125.6	125.4	125.1	124.8	124.5	124.1
110°	141.4	141.6	141.8	141.9	142.1	142.0	141.7	141.3	140.9	140.5	140.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	158.4	158.5	158.5	158.5	158.6	158.4	158.0	157.5	157.0	156.6	156.6
115°	182.0	182.1	182.2	182.3	182.4	182.4	182.3	182.2	182.1	182.0	182.2
117.5°	205.8	206.0	206.3	206.6	206.9	207.0	207.0	207.1	207.1	207.1	207.4
120°	222.5	222.7	222.9	223.1	223.3	223.5	223.6	223.7	223.8	223.9	224.3
122.5°	238.6	238.8	239.1	239.4	239.7	239.9	240.2	240.4	240.6	240.9	241.2
125°	262.7	263.1	263.4	263.8	264.2	264.6	264.9	265.3	265.7	266.1	266.3
127.5°	286.7	287.1	287.6	288.0	288.4	288.9	289.5	290.0	290.5	291.1	291.2
130°	302.4	303.1	303.8	304.4	305.1	305.6	305.9	306.3	306.7	307.1	307.4
132.5°	318.8	319.3	319.8	320.4	320.8	321.3	321.8	322.3	322.7	323.2	323.4
135°	344.3	344.5	344.7	344.9	345.1	345.3	345.7	346.1	346.5	346.9	346.9
137.5°	366.7	367.1	367.5	367.8	368.2	368.5	369.0	369.4	369.8	370.1	369.9
140°	381.4	382.1	382.8	383.4	384.1	384.5	384.6	384.7	384.7	384.8	384.7
142.5°	396.4	397.0	397.5	398.0	398.5	398.8	398.9	399.0	399.1	399.2	399.1
145°	418.2	418.6	419.0	419.3	419.7	419.9	420.0	420.1	420.2	420.3	420.0
147.5°	437.4	438.0	438.6	439.2	439.8	440.1	440.1	440.1	440.1	440.1	439.8
150°	449.8	450.3	450.9	451.5	452.0	452.3	452.3	452.3	452.3	452.3	452.1
152.5°	461.8	462.2	462.7	463.3	463.7	463.9	463.7	463.5	463.4	463.3	463.2
155°	478.0	478.6	479.3	479.9	480.6	480.8	480.4	480.0	479.7	479.3	479.2
157.5°	492.8	493.2	493.8	494.4	494.8	494.9	494.6	494.2	493.7	493.3	493.2
160°	502.3	502.7	503.0	503.4	503.8	503.8	503.3	502.8	502.4	501.9	501.9
162.5°	509.4	510.1	510.7	511.3	511.9	512.0	511.5	511.0	510.6	510.1	510.0
165°	519.8	520.5	521.1	521.8	522.5	522.5	522.0	521.4	520.8	520.3	520.3
167.5°	528.6	529.2	529.8	530.4	530.9	530.9	530.4	529.8	529.2	528.6	528.6
170°	533.1	533.8	534.4	535.1	535.7	535.7	535.1	534.4	533.8	533.1	533.1
172.5°	536.5	537.2	537.8	538.5	539.1	539.1	538.6	538.0	537.4	536.8	536.8
175°	540.4	541.0	541.7	542.3	543.0	543.0	542.4	541.9	541.3	540.7	540.7
177.5°	542.3	542.9	543.5	543.9	544.5	544.5	544.1	543.7	543.2	542.7	542.7
180°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1050.0	1046.9	1043.7	1038.2	1033.5	1026.7	1024.7	1022.4	1015.3	1009.0	1004.3
5°	1114.2	1102.3	1085.1	1069.3	1056.5	1039.2	1029.4	1019.0	1004.2	990.8	980.0
7.5°	1181.3	1158.0	1131.1	1102.1	1075.1	1049.0	1028.0	1009.3	988.5	968.9	953.7
10°	1234.5	1201.0	1163.6	1123.0	1088.5	1055.0	1026.8	1002.2	975.5	952.3	933.1
12.5°	1295.3	1245.7	1193.9	1144.8	1103.9	1057.3	1023.3	991.9	961.7	933.8	912.2
15°	1367.3	1304.2	1242.9	1175.4	1113.2	1055.0	1014.6	975.1	940.0	911.3	883.7
17.5°	1432.9	1361.3	1280.6	1198.4	1123.4	1054.4	997.8	953.1	909.3	874.3	846.8
20°	1470.0	1388.6	1297.2	1211.9	1129.0	1052.0	989.9	936.5	889.2	852.2	821.0
22.5°	1501.9	1406.7	1312.2	1221.0	1128.6	1045.7	975.2	920.4	869.0	832.8	799.7
25°	1535.1	1421.1	1326.3	1219.3	1116.2	1030.3	951.3	889.2	837.8	795.4	761.4
27.5°	1563.5	1420.1	1307.7	1192.5	1096.6	1010.6	926.2	859.6	805.1	759.0	724.4
30°	1582.4	1422.1	1288.4	1174.4	1077.7	988.8	906.9	839.8	782.6	735.7	703.1
32.5°	1594.3	1420.9	1270.6	1149.1	1047.6	969.1	886.0	816.5	757.7	711.6	680.2
35°	1601.2	1412.2	1240.0	1096.9	999.2	922.7	853.2	781.1	719.4	676.5	641.0
37.5°	1587.4	1393.9	1204.5	1046.6	939.6	864.3	805.8	744.4	685.4	638.1	607.6
40°	1565.7	1382.1	1176.9	1011.1	898.5	826.0	776.2	716.0	657.7	612.8	584.2
42.5°	1524.2	1358.0	1146.4	971.6	855.9	783.3	737.5	687.2	632.1	589.9	561.4
45°	1423.1	1305.6	1100.9	912.4	793.0	717.9	677.5	641.0	591.2	550.2	525.5
47.5°	1282.7	1226.8	1034.9	849.9	727.3	655.1	613.0	583.6	547.2	514.2	490.5
50°	1185.2	1162.1	990.3	807.3	683.4	612.8	572.4	545.7	519.6	486.5	464.9
52.5°	1072.7	1087.0	938.2	763.1	638.8	569.4	531.3	510.2	486.4	459.3	440.4
55°	914.4	966.1	848.2	688.8	572.4	506.2	470.2	451.5	437.7	417.5	401.1
57.5°	766.0	832.0	750.9	612.4	507.2	450.2	415.6	395.1	386.3	375.7	362.9
60°	678.0	743.1	681.5	561.0	463.4	409.1	378.4	361.2	352.3	344.9	334.0
62.5°	599.5	665.3	613.5	509.0	420.3	369.9	343.4	326.5	319.5	315.7	306.4
65°	491.4	548.2	513.7	427.8	358.7	314.3	290.1	278.3	271.9	270.4	264.5
67.5°	400.0	443.2	418.0	354.9	300.5	262.1	241.6	231.5	226.6	226.1	221.7
70°	340.0	380.4	361.2	304.0	257.1	227.0	209.2	200.3	197.4	196.9	194.4
72.5°	293.4	321.6	306.3	258.5	222.3	195.0	182.0	172.7	169.4	170.0	168.3
75°	217.1	238.4	229.4	196.4	167.3	149.5	138.6	132.7	129.8	131.3	129.3
77.5°	156.2	169.7	161.6	138.7	120.8	107.9	100.0	96.3	93.7	93.6	92.7
80°	117.9	125.8	121.4	107.5	92.7	81.9	75.5	73.0	71.5	71.1	70.6
82.5°	84.0	90.7	85.5	76.0	65.9	59.4	55.8	52.5	51.5	51.7	51.2
85°	42.4	44.9	42.9	37.0	33.1	30.1	28.1	26.7	25.6	26.1	25.2
87.5°	16.1	16.3	14.9	13.1	12.1	10.7	10.6	9.5	9.0	9.1	9.0
90°	7.8	6.5	5.3	4.2	3.3	2.4	1.4	0.5	1.4	2.4	3.3
92.5°	15.0	14.3	13.6	12.9	12.3	11.6	11.0	10.4	11.0	11.6	12.3
95°	30.1	29.3	28.6	27.9	27.2	26.5	25.8	25.2	25.8	26.5	27.2
97.5°	48.4	47.8	47.2	46.8	46.3	45.7	45.2	44.8	45.2	45.7	46.3
100°	61.8	61.4	60.9	60.3	59.8	59.2	58.6	58.1	58.6	59.2	59.8
102.5°	76.5	76.0	75.3	74.8	74.5	74.2	73.8	73.4	73.8	74.2	74.5
105°	99.1	98.2	97.4	96.9	96.7	96.5	96.3	96.1	96.3	96.5	96.7
107.5°	123.8	123.5	123.1	122.9	122.7	122.6	122.5	122.4	122.5	122.6	122.7
110°	140.2	140.0	139.8	139.6	139.4	139.2	139.0	138.8	139.0	139.2	139.4



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	156.6	156.5	156.5	156.4	156.3	156.2	156.0	155.9	156.0	156.2	156.3
115°	182.4	182.6	182.8	182.7	182.4	182.1	181.8	181.5	181.8	182.1	182.4
117.5°	207.5	207.8	208.0	208.1	207.9	207.7	207.5	207.4	207.5	207.7	207.9
120°	224.8	225.3	225.7	225.6	225.1	224.5	223.9	223.4	223.9	224.5	225.1
122.5°	241.4	241.7	241.9	241.8	241.4	241.0	240.5	240.2	240.5	241.0	241.4
125°	266.5	266.6	266.8	266.8	266.6	266.3	266.0	265.7	266.0	266.3	266.6
127.5°	291.4	291.7	291.9	291.7	291.1	290.5	289.8	289.3	289.8	290.5	291.1
130°	307.6	307.9	308.2	308.0	307.3	306.5	305.8	305.0	305.8	306.5	307.3
132.5°	323.6	323.8	324.0	323.8	323.0	322.3	321.4	320.7	321.4	322.3	323.0
135°	347.0	347.1	347.2	346.9	346.4	345.8	345.3	344.7	345.3	345.8	346.4
137.5°	369.7	369.4	369.2	368.8	368.3	367.9	367.4	366.9	367.4	367.9	368.3
140°	384.7	384.6	384.5	384.2	383.7	383.2	382.8	382.3	382.8	383.2	383.7
142.5°	398.9	398.7	398.5	398.2	397.8	397.3	396.8	396.3	396.8	397.3	397.8
145°	419.7	419.4	419.1	419.0	418.8	418.6	418.4	418.2	418.4	418.6	418.8
147.5°	439.5	439.2	438.9	438.7	438.3	438.0	437.6	437.3	437.6	438.0	438.3
150°	451.9	451.8	451.6	451.4	451.2	451.0	450.8	450.6	450.8	451.0	451.2
152.5°	463.1	462.9	462.8	462.6	462.3	462.1	461.8	461.6	461.8	462.1	462.3
155°	479.1	479.0	478.9	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8
157.5°	493.2	493.1	493.0	493.0	493.1	493.3	493.4	493.5	493.4	493.3	493.1
160°	501.9	501.9	501.9	502.0	502.2	502.4	502.6	502.8	502.6	502.4	502.2
162.5°	509.9	509.8	509.8	509.9	510.1	510.4	510.7	511.0	510.7	510.4	510.1
165°	520.3	520.3	520.3	520.4	520.7	520.9	521.2	521.5	521.2	520.9	520.7
167.5°	528.5	528.4	528.3	528.5	528.9	529.2	529.6	530.0	529.6	529.2	528.9
170°	533.1	533.1	533.1	533.3	533.7	534.0	534.4	534.8	534.4	534.0	533.7
172.5°	536.8	536.8	536.8	537.0	537.4	537.8	538.2	538.6	538.2	537.8	537.4
175°	540.7	540.7	540.7	540.9	541.3	541.7	542.1	542.4	542.1	541.7	541.3
177.5°	542.7	542.7	542.7	542.9	543.2	543.5	543.8	544.1	543.8	543.5	543.2
180°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1001.5	998.7	994.8	988.8	984.1	976.6	976.6	977.8	977.8	977.4	976.6
5°	971.1	963.7	954.8	944.4	933.6	922.7	920.8	916.8	913.9	911.9	909.4
7.5°	939.1	925.9	912.9	898.4	885.2	874.3	866.7	860.4	856.3	852.0	848.9
10°	917.3	901.0	885.7	870.4	853.7	840.4	832.0	826.0	821.6	817.7	815.7
12.5°	891.6	873.0	856.1	841.6	823.2	809.5	801.5	798.8	793.5	785.2	780.9
15°	854.1	836.9	816.6	794.5	785.5	768.7	759.4	755.0	752.0	745.6	743.6
17.5°	822.1	799.5	776.7	760.2	743.7	730.1	724.8	719.3	715.4	710.1	708.6
20°	796.4	776.2	755.4	737.7	720.4	705.6	701.2	697.2	693.2	690.8	688.8
22.5°	770.3	750.2	732.9	716.3	698.0	688.2	683.4	679.1	676.3	674.7	672.7
25°	733.8	716.0	696.7	681.9	667.1	660.7	657.7	655.3	653.3	650.8	650.4
27.5°	701.0	681.6	666.0	652.2	641.6	636.2	633.4	632.2	632.6	633.5	634.0
30°	676.5	658.7	645.9	634.0	624.2	619.3	618.8	618.8	620.8	621.2	622.3
32.5°	654.0	639.4	626.6	615.1	607.7	604.3	606.1	606.1	607.8	609.0	610.8
35°	621.2	608.4	598.5	588.7	582.3	583.7	584.8	585.7	588.1	591.2	593.1
37.5°	589.9	578.8	568.5	560.8	557.9	560.5	562.9	565.0	567.9	570.1	572.1
40°	567.4	559.0	549.2	542.2	543.3	544.8	546.8	549.2	551.7	553.2	555.2
42.5°	546.5	537.7	530.3	524.5	525.9	527.8	529.0	530.3	533.1	535.7	537.0
45°	514.6	507.7	500.9	497.4	498.4	499.4	500.3	501.8	504.3	506.2	506.8
47.5°	478.8	474.0	469.4	466.0	467.6	467.2	468.4	471.6	472.4	473.6	476.4
50°	455.9	451.5	446.1	445.1	445.1	445.1	445.5	449.5	449.5	451.5	453.5
52.5°	430.6	427.8	424.3	422.5	421.8	421.8	423.9	425.8	426.6	429.4	431.4
55°	393.2	390.3	387.4	385.9	384.8	385.9	389.8	390.8	393.2	394.7	396.2
57.5°	354.3	352.0	349.7	348.8	348.6	350.0	352.1	355.1	355.7	360.2	362.5
60°	328.7	325.2	323.2	323.2	322.3	326.7	325.6	330.6	331.6	334.5	338.0
62.5°	302.2	297.6	296.7	296.7	298.1	299.4	300.8	302.9	305.6	309.2	312.0
65°	259.6	257.1	260.5	260.0	259.0	262.0	262.0	264.5	267.4	270.9	276.4
67.5°	219.1	217.9	218.2	218.2	219.7	221.4	222.7	224.9	228.5	232.1	235.6
70°	191.9	193.4	191.0	192.9	194.4	194.9	195.9	198.9	202.8	205.3	209.2
72.5°	165.5	165.4	165.7	166.5	168.0	168.8	169.8	173.2	177.6	179.6	182.8
75°	127.3	126.8	128.3	128.3	130.7	131.8	132.7	134.2	138.2	141.1	143.5
77.5°	92.9	93.6	93.2	94.9	94.3	94.4	97.5	99.0	99.3	105.2	106.5
80°	70.0	71.1	71.5	72.0	72.6	71.5	75.0	76.4	76.4	79.9	82.4
82.5°	50.3	50.9	52.2	52.7	52.8	53.8	54.1	55.1	56.4	57.9	61.1
85°	25.2	26.7	27.1	26.7	27.1	26.1	27.6	28.1	28.7	28.7	28.7
87.5°	8.8	9.3	9.2	9.8	9.7	10.4	10.5	9.7	9.8	11.0	9.5
90°	4.2	5.3	6.5	7.8	9.0	10.3	10.7	11.0	11.4	11.8	12.1
92.5°	12.9	13.6	14.3	15.0	15.7	16.4	16.7	17.0	17.3	17.6	17.7
95°	27.9	28.6	29.3	30.1	30.8	31.6	32.0	32.3	32.7	33.1	33.3
97.5°	46.8	47.2	47.8	48.4	48.9	49.5	49.9	50.3	50.8	51.2	51.4
100°	60.3	60.9	61.4	61.8	62.3	62.8	63.1	63.3	63.6	63.9	64.2
102.5°	74.8	75.3	76.0	76.5	77.2	77.9	78.1	78.4	78.7	79.0	79.1
105°	96.9	97.4	98.2	99.1	99.9	100.8	100.8	100.8	100.8	100.8	100.9
107.5°	122.9	123.1	123.5	123.8	124.1	124.5	124.8	125.1	125.4	125.6	125.7
110°	139.6	139.8	140.0	140.2	140.3	140.5	140.9	141.3	141.7	142.0	142.1



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	156.4	156.5	156.5	156.6	156.6	156.6	157.0	157.5	158.0	158.4	158.6
115°	182.7	182.8	182.6	182.4	182.2	182.0	182.1	182.2	182.3	182.4	182.4
117.5°	208.1	208.0	207.8	207.5	207.4	207.1	207.1	207.1	207.0	207.0	206.9
120°	225.6	225.7	225.3	224.8	224.3	223.9	223.8	223.7	223.6	223.5	223.3
122.5°	241.8	241.9	241.7	241.4	241.2	240.9	240.6	240.4	240.2	239.9	239.7
125°	266.8	266.8	266.6	266.5	266.3	266.1	265.7	265.3	264.9	264.6	264.2
127.5°	291.7	291.9	291.7	291.4	291.2	291.1	290.5	290.0	289.5	288.9	288.4
130°	308.0	308.2	307.9	307.6	307.4	307.1	306.7	306.3	305.9	305.6	305.1
132.5°	323.8	324.0	323.8	323.6	323.4	323.2	322.7	322.3	321.8	321.3	320.8
135°	346.9	347.2	347.1	347.0	346.9	346.9	346.5	346.1	345.7	345.3	345.1
137.5°	368.8	369.2	369.4	369.7	369.9	370.1	369.8	369.4	369.0	368.5	368.2
140°	384.2	384.5	384.6	384.7	384.7	384.8	384.7	384.7	384.6	384.5	384.1
142.5°	398.2	398.5	398.7	398.9	399.1	399.2	399.1	399.0	398.9	398.8	398.5
145°	419.0	419.1	419.4	419.7	420.0	420.3	420.2	420.1	420.0	419.9	419.7
147.5°	438.7	438.9	439.2	439.5	439.8	440.1	440.1	440.1	440.1	440.1	439.8
150°	451.4	451.6	451.8	451.9	452.1	452.3	452.3	452.3	452.3	452.3	452.0
152.5°	462.6	462.8	462.9	463.1	463.2	463.3	463.4	463.5	463.7	463.9	463.7
155°	478.8	478.9	479.0	479.1	479.2	479.3	479.7	480.0	480.4	480.8	480.6
157.5°	493.0	493.0	493.1	493.2	493.2	493.3	493.7	494.2	494.6	494.9	494.8
160°	502.0	501.9	501.9	501.9	501.9	501.9	502.4	502.8	503.3	503.8	503.8
162.5°	509.9	509.8	509.8	509.9	510.0	510.1	510.6	511.0	511.5	512.0	511.9
165°	520.4	520.3	520.3	520.3	520.3	520.3	520.8	521.4	522.0	522.5	522.5
167.5°	528.5	528.3	528.4	528.5	528.6	528.6	529.2	529.8	530.4	530.9	530.9
170°	533.3	533.1	533.1	533.1	533.1	533.1	533.8	534.4	535.1	535.7	535.7
172.5°	537.0	536.8	536.8	536.8	536.8	536.8	537.4	538.0	538.6	539.1	539.1
175°	540.9	540.7	540.7	540.7	540.7	540.7	541.3	541.9	542.4	543.0	543.0
177.5°	542.9	542.7	542.7	542.7	542.7	542.7	543.2	543.7	544.1	544.5	544.5
180°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	973.8	973.5	976.2	974.2	976.2	973.5	973.8	976.6	977.4	977.8	977.8
5°	906.4	908.0	903.0	903.0	903.0	908.0	906.4	909.4	911.9	913.9	916.8
7.5°	846.4	844.2	844.4	841.8	844.4	844.2	846.4	848.9	852.0	856.3	860.4
10°	809.7	806.8	805.8	806.3	805.8	806.8	809.7	815.7	817.7	821.6	826.0
12.5°	779.3	778.7	772.2	772.3	772.2	778.7	779.3	780.9	785.2	793.5	798.8
15°	743.6	734.2	733.2	736.2	733.2	734.2	743.6	743.6	745.6	752.0	755.0
17.5°	707.8	702.9	703.1	701.6	703.1	702.9	707.8	708.6	710.1	715.4	719.3
20°	688.8	685.9	685.4	681.9	685.4	685.9	688.8	688.8	690.8	693.2	697.2
22.5°	671.5	670.5	670.8	666.9	670.8	670.5	671.5	672.7	674.7	676.3	679.1
25°	649.9	652.3	650.4	650.4	650.4	652.3	649.9	650.4	650.8	653.3	655.3
27.5°	635.3	635.2	634.1	634.1	634.1	635.2	635.3	634.0	633.5	632.6	632.2
30°	624.2	623.7	624.7	624.7	624.7	623.7	624.2	622.3	621.2	620.8	618.8
32.5°	613.1	613.9	614.1	614.4	614.1	613.9	613.1	610.8	609.0	607.8	606.1
35°	596.1	596.5	598.0	597.1	598.0	596.5	596.1	593.1	591.2	588.1	585.7
37.5°	573.0	575.2	574.8	575.5	574.8	575.2	573.0	572.1	570.1	567.9	565.0
40°	555.6	557.1	556.6	556.6	556.6	557.1	555.6	555.2	553.2	551.7	549.2
42.5°	537.8	538.9	537.6	536.9	537.6	538.9	537.8	537.0	535.7	533.1	530.3
45°	508.7	507.7	509.3	507.3	509.3	507.7	508.7	506.8	506.2	504.3	501.8
47.5°	476.2	477.1	477.6	479.0	477.6	477.1	476.2	476.4	473.6	472.4	471.6
50°	454.5	457.4	457.4	456.9	457.4	457.4	454.5	453.5	451.5	449.5	449.5
52.5°	433.1	434.5	436.5	436.4	436.5	434.5	433.1	431.4	429.4	426.6	425.8
55°	400.2	401.1	402.2	402.7	402.2	401.1	400.2	396.2	394.7	393.2	390.8
57.5°	366.0	365.6	368.0	368.7	368.0	365.6	366.0	362.5	360.2	355.7	355.1
60°	342.0	342.0	345.9	347.4	345.9	342.0	342.0	338.0	334.5	331.6	330.6
62.5°	316.3	317.9	321.8	319.7	321.8	317.9	316.3	312.0	309.2	305.6	302.9
65°	278.8	282.8	282.3	284.2	282.3	282.8	278.8	276.4	270.9	267.4	264.5
67.5°	239.6	242.0	245.6	245.9	245.6	242.0	239.6	235.6	232.1	228.5	224.9
70°	213.2	215.7	217.6	219.0	217.6	215.7	213.2	209.2	205.3	202.8	198.9
72.5°	187.5	188.8	193.5	191.4	193.5	188.8	187.5	182.8	179.6	177.6	173.2
75°	147.0	150.5	153.4	151.9	153.4	150.5	147.0	143.5	141.1	138.2	134.2
77.5°	108.8	112.2	113.6	112.4	113.6	112.2	108.8	106.5	105.2	99.3	99.0
80°	85.9	85.4	88.3	87.8	88.3	85.4	85.9	82.4	79.9	76.4	76.4
82.5°	63.0	62.5	63.8	64.2	63.8	62.5	63.0	61.1	57.9	56.4	55.1
85°	30.6	32.0	30.1	29.6	30.1	32.0	30.6	28.7	28.7	28.7	28.1
87.5°	9.5	9.6	9.2	8.9	9.2	9.6	9.5	9.5	11.0	9.8	9.7
90°	12.3	12.4	12.6	12.8	12.6	12.4	12.3	12.1	11.8	11.4	11.0
92.5°	17.6	17.4	17.3	17.2	17.3	17.4	17.6	17.7	17.6	17.3	17.0
95°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.1	32.7	32.3
97.5°	51.4	51.4	51.3	51.3	51.3	51.4	51.4	51.4	51.2	50.8	50.3
100°	64.4	64.6	64.8	64.9	64.8	64.6	64.4	64.2	63.9	63.6	63.3
102.5°	79.1	79.0	79.0	78.9	79.0	79.0	79.1	79.1	79.0	78.7	78.4
105°	101.1	101.3	101.5	101.7	101.5	101.3	101.1	100.9	100.8	100.8	100.8
107.5°	125.6	125.5	125.5	125.4	125.5	125.5	125.6	125.7	125.6	125.4	125.1
110°	141.9	141.8	141.6	141.4	141.6	141.8	141.9	142.1	142.0	141.7	141.3



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	158.5	158.5	158.5	158.4	158.5	158.5	158.5	158.6	158.4	158.0	157.5
115°	182.3	182.2	182.1	182.0	182.1	182.2	182.3	182.4	182.4	182.3	182.2
117.5°	206.6	206.3	206.0	205.8	206.0	206.3	206.6	206.9	207.0	207.0	207.1
120°	223.1	222.9	222.7	222.5	222.7	222.9	223.1	223.3	223.5	223.6	223.7
122.5°	239.4	239.1	238.8	238.6	238.8	239.1	239.4	239.7	239.9	240.2	240.4
125°	263.8	263.4	263.1	262.7	263.1	263.4	263.8	264.2	264.6	264.9	265.3
127.5°	288.0	287.6	287.1	286.7	287.1	287.6	288.0	288.4	288.9	289.5	290.0
130°	304.4	303.8	303.1	302.4	303.1	303.8	304.4	305.1	305.6	305.9	306.3
132.5°	320.4	319.8	319.3	318.8	319.3	319.8	320.4	320.8	321.3	321.8	322.3
135°	344.9	344.7	344.5	344.3	344.5	344.7	344.9	345.1	345.3	345.7	346.1
137.5°	367.8	367.5	367.1	366.7	367.1	367.5	367.8	368.2	368.5	369.0	369.4
140°	383.4	382.8	382.1	381.4	382.1	382.8	383.4	384.1	384.5	384.6	384.7
142.5°	398.0	397.5	397.0	396.4	397.0	397.5	398.0	398.5	398.8	398.9	399.0
145°	419.3	419.0	418.6	418.2	418.6	419.0	419.3	419.7	419.9	420.0	420.1
147.5°	439.2	438.6	438.0	437.4	438.0	438.6	439.2	439.8	440.1	440.1	440.1
150°	451.5	450.9	450.3	449.8	450.3	450.9	451.5	452.0	452.3	452.3	452.3
152.5°	463.3	462.7	462.2	461.8	462.2	462.7	463.3	463.7	463.9	463.7	463.5
155°	479.9	479.3	478.6	478.0	478.6	479.3	479.9	480.6	480.8	480.4	480.0
157.5°	494.4	493.8	493.2	492.8	493.2	493.8	494.4	494.8	494.9	494.6	494.2
160°	503.4	503.0	502.7	502.3	502.7	503.0	503.4	503.8	503.8	503.3	502.8
162.5°	511.3	510.7	510.1	509.4	510.1	510.7	511.3	511.9	512.0	511.5	511.0
165°	521.8	521.1	520.5	519.8	520.5	521.1	521.8	522.5	522.5	522.0	521.4
167.5°	530.4	529.8	529.2	528.6	529.2	529.8	530.4	530.9	530.9	530.4	529.8
170°	535.1	534.4	533.8	533.1	533.8	534.4	535.1	535.7	535.7	535.1	534.4
172.5°	538.5	537.8	537.2	536.5	537.2	537.8	538.5	539.1	539.1	538.6	538.0
175°	542.3	541.7	541.0	540.4	541.0	541.7	542.3	543.0	543.0	542.4	541.9
177.5°	543.9	543.5	542.9	542.3	542.9	543.5	543.9	544.5	544.5	544.1	543.7
180°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	976.6	976.6	984.1	988.8	994.8	998.7	1001.5	1004.3	1009.0	1015.3	1022.4
5°	920.8	922.7	933.6	944.4	954.8	963.7	971.1	980.0	990.8	1004.2	1019.0
7.5°	866.7	874.3	885.2	898.4	912.9	925.9	939.1	953.7	968.9	988.5	1009.3
10°	832.0	840.4	853.7	870.4	885.7	901.0	917.3	933.1	952.3	975.5	1002.2
12.5°	801.5	809.5	823.2	841.6	856.1	873.0	891.6	912.2	933.8	961.7	991.9
15°	759.4	768.7	785.5	794.5	816.6	836.9	854.1	883.7	911.3	940.0	975.1
17.5°	724.8	730.1	743.7	760.2	776.7	799.5	822.1	846.8	874.3	909.3	953.1
20°	701.2	705.6	720.4	737.7	755.4	776.2	796.4	821.0	852.2	889.2	936.5
22.5°	683.4	688.2	698.0	716.3	732.9	750.2	770.3	799.7	832.8	869.0	920.4
25°	657.7	660.7	667.1	681.9	696.7	716.0	733.8	761.4	795.4	837.8	889.2
27.5°	633.4	636.2	641.6	652.2	666.0	681.6	701.0	724.4	759.0	805.1	859.6
30°	618.8	619.3	624.2	634.0	645.9	658.7	676.5	703.1	735.7	782.6	839.8
32.5°	606.1	604.3	607.7	615.1	626.6	639.4	654.0	680.2	711.6	757.7	816.5
35°	584.8	583.7	582.3	588.7	598.5	608.4	621.2	641.0	676.5	719.4	781.1
37.5°	562.9	560.5	557.9	560.8	568.5	578.8	589.9	607.6	638.1	685.4	744.4
40°	546.8	544.8	543.3	542.2	549.2	559.0	567.4	584.2	612.8	657.7	716.0
42.5°	529.0	527.8	525.9	524.5	530.3	537.7	546.5	561.4	589.9	632.1	687.2
45°	500.3	499.4	498.4	497.4	500.9	507.7	514.6	525.5	550.2	591.2	641.0
47.5°	468.4	467.2	467.6	466.0	469.4	474.0	478.8	490.5	514.2	547.2	583.6
50°	445.5	445.1	445.1	445.1	446.1	451.5	455.9	464.9	486.5	519.6	545.7
52.5°	423.9	421.8	421.8	422.5	424.3	427.8	430.6	440.4	459.3	486.4	510.2
55°	389.8	385.9	384.8	385.9	387.4	390.3	393.2	401.1	417.5	437.7	451.5
57.5°	352.1	350.0	348.6	348.8	349.7	352.0	354.3	362.9	375.7	386.3	395.1
60°	325.6	326.7	322.3	323.2	323.2	325.2	328.7	334.0	344.9	352.3	361.2
62.5°	300.8	299.4	298.1	296.7	296.7	297.6	302.2	306.4	315.7	319.5	326.5
65°	262.0	262.0	259.0	260.0	260.5	257.1	259.6	264.5	270.4	271.9	278.3
67.5°	222.7	221.4	219.7	218.2	218.2	217.9	219.1	221.7	226.1	226.6	231.5
70°	195.9	194.9	194.4	192.9	191.0	193.4	191.9	194.4	196.9	197.4	200.3
72.5°	169.8	168.8	168.0	166.5	165.7	165.4	165.5	168.3	170.0	169.4	172.7
75°	132.7	131.8	130.7	128.3	128.3	126.8	127.3	129.3	131.3	129.8	132.7
77.5°	97.5	94.4	94.3	94.9	93.2	93.6	92.9	92.7	93.6	93.7	96.3
80°	75.0	71.5	72.6	72.0	71.5	71.1	70.0	70.6	71.1	71.5	73.0
82.5°	54.1	53.8	52.8	52.7	52.2	50.9	50.3	51.2	51.7	51.5	52.5
85°	27.6	26.1	27.1	26.7	27.1	26.7	25.2	25.2	26.1	25.6	26.7
87.5°	10.5	10.4	9.7	9.8	9.2	9.3	8.8	9.0	9.1	9.0	9.5
90°	10.7	10.3	9.0	7.8	6.5	5.3	4.2	3.3	2.4	1.4	0.5
92.5°	16.7	16.4	15.7	15.0	14.3	13.6	12.9	12.3	11.6	11.0	10.4
95°	32.0	31.6	30.8	30.1	29.3	28.6	27.9	27.2	26.5	25.8	25.2
97.5°	49.9	49.5	48.9	48.4	47.8	47.2	46.8	46.3	45.7	45.2	44.8
100°	63.1	62.8	62.3	61.8	61.4	60.9	60.3	59.8	59.2	58.6	58.1
102.5°	78.1	77.9	77.2	76.5	76.0	75.3	74.8	74.5	74.2	73.8	73.4
105°	100.8	100.8	99.9	99.1	98.2	97.4	96.9	96.7	96.5	96.3	96.1
107.5°	124.8	124.5	124.1	123.8	123.5	123.1	122.9	122.7	122.6	122.5	122.4
110°	140.9	140.5	140.3	140.2	140.0	139.8	139.6	139.4	139.2	139.0	138.8



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	157.0	156.6	156.6	156.6	156.5	156.5	156.4	156.3	156.2	156.0	155.9
115°	182.1	182.0	182.2	182.4	182.6	182.8	182.7	182.4	182.1	181.8	181.5
117.5°	207.1	207.1	207.4	207.5	207.8	208.0	208.1	207.9	207.7	207.5	207.4
120°	223.8	223.9	224.3	224.8	225.3	225.7	225.6	225.1	224.5	223.9	223.4
122.5°	240.6	240.9	241.2	241.4	241.7	241.9	241.8	241.4	241.0	240.5	240.2
125°	265.7	266.1	266.3	266.5	266.6	266.8	266.8	266.6	266.3	266.0	265.7
127.5°	290.5	291.1	291.2	291.4	291.7	291.9	291.7	291.1	290.5	289.8	289.3
130°	306.7	307.1	307.4	307.6	307.9	308.2	308.0	307.3	306.5	305.8	305.0
132.5°	322.7	323.2	323.4	323.6	323.8	324.0	323.8	323.0	322.3	321.4	320.7
135°	346.5	346.9	346.9	347.0	347.1	347.2	346.9	346.4	345.8	345.3	344.7
137.5°	369.8	370.1	369.9	369.7	369.4	369.2	368.8	368.3	367.9	367.4	366.9
140°	384.7	384.8	384.7	384.7	384.6	384.5	384.2	383.7	383.2	382.8	382.3
142.5°	399.1	399.2	399.1	398.9	398.7	398.5	398.2	397.8	397.3	396.8	396.3
145°	420.2	420.3	420.0	419.7	419.4	419.1	419.0	418.8	418.6	418.4	418.2
147.5°	440.1	440.1	439.8	439.5	439.2	438.9	438.7	438.3	438.0	437.6	437.3
150°	452.3	452.3	452.1	451.9	451.8	451.6	451.4	451.2	451.0	450.8	450.6
152.5°	463.4	463.3	463.2	463.1	462.9	462.8	462.6	462.3	462.1	461.8	461.6
155°	479.7	479.3	479.2	479.1	479.0	478.9	478.8	478.8	478.8	478.8	478.8
157.5°	493.7	493.3	493.2	493.2	493.1	493.0	493.0	493.1	493.3	493.4	493.5
160°	502.4	501.9	501.9	501.9	501.9	501.9	502.0	502.2	502.4	502.6	502.8
162.5°	510.6	510.1	510.0	509.9	509.8	509.8	509.9	510.1	510.4	510.7	511.0
165°	520.8	520.3	520.3	520.3	520.3	520.3	520.4	520.7	520.9	521.2	521.5
167.5°	529.2	528.6	528.6	528.5	528.4	528.3	528.5	528.9	529.2	529.6	530.0
170°	533.8	533.1	533.1	533.1	533.1	533.1	533.3	533.7	534.0	534.4	534.8
172.5°	537.4	536.8	536.8	536.8	536.8	536.8	537.0	537.4	537.8	538.2	538.6
175°	541.3	540.7	540.7	540.7	540.7	540.7	540.9	541.3	541.7	542.1	542.4
177.5°	543.2	542.7	542.7	542.7	542.7	542.7	542.9	543.2	543.5	543.8	544.1
180°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1024.7	1026.7	1033.5	1038.2	1043.7	1046.9	1050.0	1052.4	1055.6	1056.3	1067.8
5°	1029.4	1039.2	1056.5	1069.3	1085.1	1102.3	1114.2	1119.6	1133.9	1145.8	1169.4
7.5°	1028.0	1049.0	1075.1	1102.1	1131.1	1158.0	1181.3	1208.9	1228.6	1258.1	1287.1
10°	1026.8	1055.0	1088.5	1123.0	1163.6	1201.0	1234.5	1272.1	1303.2	1344.2	1379.1
12.5°	1023.3	1057.3	1103.9	1144.8	1193.9	1245.7	1295.3	1343.5	1371.0	1439.3	1471.5
15°	1014.6	1055.0	1113.2	1175.4	1242.9	1304.2	1367.3	1417.7	1499.0	1558.8	1596.8
17.5°	997.8	1054.4	1123.4	1198.4	1280.6	1361.3	1432.9	1509.2	1595.5	1667.8	1744.8
20°	989.9	1052.0	1129.0	1211.9	1297.2	1388.6	1470.0	1561.7	1656.0	1727.0	1825.7
22.5°	975.2	1045.7	1128.6	1221.0	1312.2	1406.7	1501.9	1594.5	1703.4	1801.3	1895.2
25°	951.3	1030.3	1116.2	1219.3	1326.3	1421.1	1535.1	1657.9	1771.4	1897.2	1991.0
27.5°	926.2	1010.6	1096.6	1192.5	1307.7	1420.1	1563.5	1702.3	1841.2	1949.7	2019.1
30°	906.9	988.8	1077.7	1174.4	1288.4	1422.1	1582.4	1733.9	1869.2	1962.4	2001.4
32.5°	886.0	969.1	1047.6	1149.1	1270.6	1420.9	1594.3	1752.5	1870.8	1932.8	1925.2
35°	853.2	922.7	999.2	1096.9	1240.0	1412.2	1601.2	1754.2	1826.7	1813.4	1712.7
37.5°	805.8	864.3	939.6	1046.6	1204.5	1393.9	1587.4	1702.1	1697.4	1588.9	1443.1
40°	776.2	826.0	898.5	1011.1	1176.9	1382.1	1565.7	1640.2	1577.1	1425.5	1250.8
42.5°	737.5	783.3	855.9	971.6	1146.4	1358.0	1524.2	1545.9	1422.3	1247.9	1087.8
45°	677.5	717.9	793.0	912.4	1100.9	1305.6	1423.1	1370.3	1204.0	1023.9	902.0
47.5°	613.0	655.1	727.3	849.9	1034.9	1226.8	1282.7	1170.4	999.7	853.7	741.8
50°	572.4	612.8	683.4	807.3	990.3	1162.1	1185.2	1040.2	883.3	755.0	663.2
52.5°	531.3	569.4	638.8	763.1	938.2	1087.0	1072.7	924.9	780.6	671.3	599.3
55°	470.2	506.2	572.4	688.8	848.2	966.1	914.4	773.3	653.8	568.9	514.2
57.5°	415.6	450.2	507.2	612.4	750.9	832.0	766.0	647.1	552.1	486.8	446.0
60°	378.4	409.1	463.4	561.0	681.5	743.1	678.0	572.9	492.9	440.6	404.2
62.5°	343.4	369.9	420.3	509.0	613.5	665.3	599.5	510.5	442.4	396.1	365.0
65°	290.1	314.3	358.7	427.8	513.7	548.2	491.4	419.4	366.6	332.1	311.3
67.5°	241.6	262.1	300.5	354.9	418.0	443.2	400.0	344.2	304.4	276.7	260.2
70°	209.2	227.0	257.1	304.0	361.2	380.4	340.0	294.1	264.9	242.8	227.4
72.5°	182.0	195.0	222.3	258.5	306.3	321.6	293.4	253.1	225.9	209.2	197.1
75°	138.6	149.5	167.3	196.4	229.4	238.4	217.1	191.9	173.7	161.8	152.5
77.5°	100.0	107.9	120.8	138.7	161.6	169.7	156.2	139.4	126.1	118.1	112.9
80°	75.5	81.9	92.7	107.5	121.4	125.8	117.9	105.1	95.8	91.3	86.8
82.5°	55.8	59.4	65.9	76.0	85.5	90.7	84.0	76.3	71.3	67.2	65.5
85°	28.1	30.1	33.1	37.0	42.9	44.9	42.4	40.4	37.5	35.1	35.1
87.5°	10.6	10.7	12.1	13.1	14.9	16.3	16.1	15.6	15.5	15.2	14.8
90°	1.4	2.4	3.3	4.2	5.3	6.5	7.8	9.0	10.3	10.7	11.0
92.5°	11.0	11.6	12.3	12.9	13.6	14.3	15.0	15.7	16.4	16.7	17.0
95°	25.8	26.5	27.2	27.9	28.6	29.3	30.1	30.8	31.6	32.0	32.3
97.5°	45.2	45.7	46.3	46.8	47.2	47.8	48.4	48.9	49.5	49.9	50.3
100°	58.6	59.2	59.8	60.3	60.9	61.4	61.8	62.3	62.8	63.1	63.3
102.5°	73.8	74.2	74.5	74.8	75.3	76.0	76.5	77.2	77.9	78.1	78.4
105°	96.3	96.5	96.7	96.9	97.4	98.2	99.1	99.9	100.8	100.8	100.8
107.5°	122.5	122.6	122.7	122.9	123.1	123.5	123.8	124.1	124.5	124.8	125.1
110°	139.0	139.2	139.4	139.6	139.8	140.0	140.2	140.3	140.5	140.9	141.3



TEST NUMBER: P332151-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	156.0	156.2	156.3	156.4	156.5	156.5	156.6	156.6	156.6	157.0	157.5
115°	181.8	182.1	182.4	182.7	182.8	182.6	182.4	182.2	182.0	182.1	182.2
117.5°	207.5	207.7	207.9	208.1	208.0	207.8	207.5	207.4	207.1	207.1	207.1
120°	223.9	224.5	225.1	225.6	225.7	225.3	224.8	224.3	223.9	223.8	223.7
122.5°	240.5	241.0	241.4	241.8	241.9	241.7	241.4	241.2	240.9	240.6	240.4
125°	266.0	266.3	266.6	266.8	266.8	266.6	266.5	266.3	266.1	265.7	265.3
127.5°	289.8	290.5	291.1	291.7	291.9	291.7	291.4	291.2	291.1	290.5	290.0
130°	305.8	306.5	307.3	308.0	308.2	307.9	307.6	307.4	307.1	306.7	306.3
132.5°	321.4	322.3	323.0	323.8	324.0	323.8	323.6	323.4	323.2	322.7	322.3
135°	345.3	345.8	346.4	346.9	347.2	347.1	347.0	346.9	346.9	346.5	346.1
137.5°	367.4	367.9	368.3	368.8	369.2	369.4	369.7	369.9	370.1	369.8	369.4
140°	382.8	383.2	383.7	384.2	384.5	384.6	384.7	384.7	384.8	384.7	384.7
142.5°	396.8	397.3	397.8	398.2	398.5	398.7	398.9	399.1	399.2	399.1	399.0
145°	418.4	418.6	418.8	419.0	419.1	419.4	419.7	420.0	420.3	420.2	420.1
147.5°	437.6	438.0	438.3	438.7	438.9	439.2	439.5	439.8	440.1	440.1	440.1
150°	450.8	451.0	451.2	451.4	451.6	451.8	451.9	452.1	452.3	452.3	452.3
152.5°	461.8	462.1	462.3	462.6	462.8	462.9	463.1	463.2	463.3	463.4	463.5
155°	478.8	478.8	478.8	478.8	478.9	479.0	479.1	479.2	479.3	479.7	480.0
157.5°	493.4	493.3	493.1	493.0	493.0	493.1	493.2	493.2	493.3	493.7	494.2
160°	502.6	502.4	502.2	502.0	501.9	501.9	501.9	501.9	501.9	502.4	502.8
162.5°	510.7	510.4	510.1	509.9	509.8	509.8	509.9	510.0	510.1	510.6	511.0
165°	521.2	520.9	520.7	520.4	520.3	520.3	520.3	520.3	520.3	520.8	521.4
167.5°	529.6	529.2	528.9	528.5	528.3	528.4	528.5	528.6	528.6	529.2	529.8
170°	534.4	534.0	533.7	533.3	533.1	533.1	533.1	533.1	533.1	533.8	534.4
172.5°	538.2	537.8	537.4	537.0	536.8	536.8	536.8	536.8	536.8	537.4	538.0
175°	542.1	541.7	541.3	540.9	540.7	540.7	540.7	540.7	540.7	541.3	541.9
177.5°	543.8	543.5	543.2	542.9	542.7	542.7	542.7	542.7	542.7	543.2	543.7
180°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1071.8	1072.1	1076.5	1079.7	1078.1	1080.1	1080.8
5°	1170.9	1188.7	1198.1	1204.9	1205.5	1206.0	1209.9
7.5°	1311.5	1330.6	1344.5	1365.6	1372.0	1379.1	1377.1
10°	1414.2	1442.3	1466.5	1479.3	1493.2	1513.3	1497.1
12.5°	1510.1	1560.0	1596.8	1616.7	1629.8	1633.8	1625.8
15°	1668.3	1733.4	1768.5	1767.5	1811.9	1831.2	1801.0
17.5°	1813.4	1873.5	1921.7	1946.4	1983.3	1991.5	1987.7
20°	1902.2	1967.8	2005.4	2047.8	2067.0	2084.2	2087.3
22.5°	1978.8	2037.7	2077.9	2113.3	2129.4	2137.6	2142.5
25°	2057.7	2104.0	2128.2	2140.5	2144.9	2144.0	2137.6
27.5°	2052.2	2055.8	2029.1	2003.0	1979.6	1953.2	1944.2
30°	1998.9	1957.5	1883.5	1841.5	1779.8	1731.0	1750.7
32.5°	1858.8	1776.3	1693.2	1601.5	1525.6	1504.0	1482.2
35°	1586.4	1441.3	1356.5	1257.7	1218.3	1178.8	1151.7
37.5°	1283.5	1171.2	1070.5	1006.0	966.5	941.5	928.0
40°	1109.7	1008.6	925.7	873.4	843.3	815.2	811.2
42.5°	971.2	877.1	814.7	773.1	744.2	732.3	723.6
45°	795.4	729.8	687.9	658.3	639.0	631.6	621.7
47.5°	673.3	626.9	595.4	575.2	560.7	555.3	554.4
50°	604.9	566.5	543.3	527.4	516.1	514.2	506.2
52.5°	553.6	520.3	502.2	488.4	480.2	474.7	472.3
55°	480.6	458.4	442.1	434.2	427.8	422.4	422.4
57.5°	420.5	402.0	391.2	384.5	382.5	378.6	376.2
60°	383.4	367.6	359.2	353.3	349.4	349.9	345.4
62.5°	347.0	336.9	328.9	322.9	318.2	318.3	318.6
65°	295.6	287.7	281.7	279.7	276.8	273.3	274.4
67.5°	250.4	243.1	238.5	235.1	234.1	232.2	235.1
70°	218.1	212.6	209.2	206.2	205.3	205.8	208.2
72.5°	188.5	184.6	182.4	181.0	178.8	178.9	180.6
75°	148.1	145.1	143.1	141.6	141.1	141.1	141.1
77.5°	108.8	108.1	107.2	105.0	105.1	105.7	105.8
80°	85.9	84.4	83.9	82.9	81.4	80.4	82.9
82.5°	64.2	62.7	62.2	62.0	59.7	59.5	61.5
85°	34.5	33.1	33.6	33.1	33.1	32.6	32.6
87.5°	14.5	14.2	13.9	14.3	13.9	13.6	14.4
90°	11.4	11.8	12.1	12.3	12.4	12.6	12.8
92.5°	17.3	17.6	17.7	17.6	17.4	17.3	17.2
95°	32.7	33.1	33.3	33.3	33.3	33.3	33.3
97.5°	50.8	51.2	51.4	51.4	51.4	51.3	51.3
100°	63.6	63.9	64.2	64.4	64.6	64.8	64.9
102.5°	78.7	79.0	79.1	79.1	79.0	79.0	78.9
105°	100.8	100.8	100.9	101.1	101.3	101.5	101.7
107.5°	125.4	125.6	125.7	125.6	125.5	125.5	125.4
110°	141.7	142.0	142.1	141.9	141.8	141.6	141.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	158.0	158.4	158.6	158.5	158.5	158.5	158.4
115°	182.3	182.4	182.4	182.3	182.2	182.1	182.0
117.5°	207.0	207.0	206.9	206.6	206.3	206.0	205.8
120°	223.6	223.5	223.3	223.1	222.9	222.7	222.5
122.5°	240.2	239.9	239.7	239.4	239.1	238.8	238.6
125°	264.9	264.6	264.2	263.8	263.4	263.1	262.7
127.5°	289.5	288.9	288.4	288.0	287.6	287.1	286.7
130°	305.9	305.6	305.1	304.4	303.8	303.1	302.4
132.5°	321.8	321.3	320.8	320.4	319.8	319.3	318.8
135°	345.7	345.3	345.1	344.9	344.7	344.5	344.3
137.5°	369.0	368.5	368.2	367.8	367.5	367.1	366.7
140°	384.6	384.5	384.1	383.4	382.8	382.1	381.4
142.5°	398.9	398.8	398.5	398.0	397.5	397.0	396.4
145°	420.0	419.9	419.7	419.3	419.0	418.6	418.2
147.5°	440.1	440.1	439.8	439.2	438.6	438.0	437.4
150°	452.3	452.3	452.0	451.5	450.9	450.3	449.8
152.5°	463.7	463.9	463.7	463.3	462.7	462.2	461.8
155°	480.4	480.8	480.6	479.9	479.3	478.6	478.0
157.5°	494.6	494.9	494.8	494.4	493.8	493.2	492.8
160°	503.3	503.8	503.8	503.4	503.0	502.7	502.3
162.5°	511.5	512.0	511.9	511.3	510.7	510.1	509.4
165°	522.0	522.5	522.5	521.8	521.1	520.5	519.8
167.5°	530.4	530.9	530.9	530.4	529.8	529.2	528.6
170°	535.1	535.7	535.7	535.1	534.4	533.8	533.1
172.5°	538.6	539.1	539.1	538.5	537.8	537.2	536.5
175°	542.4	543.0	543.0	542.3	541.7	541.0	540.4
177.5°	544.1	544.5	544.5	543.9	543.5	542.9	542.3
180°	543.8	543.8	543.8	543.8	543.8	543.8	543.8

(END OF REPORT)