

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: P332295

Luminaire Tested: **S123RDIP-S560D1195U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332295
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: S123RDIP-S560D1195U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6330.1 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

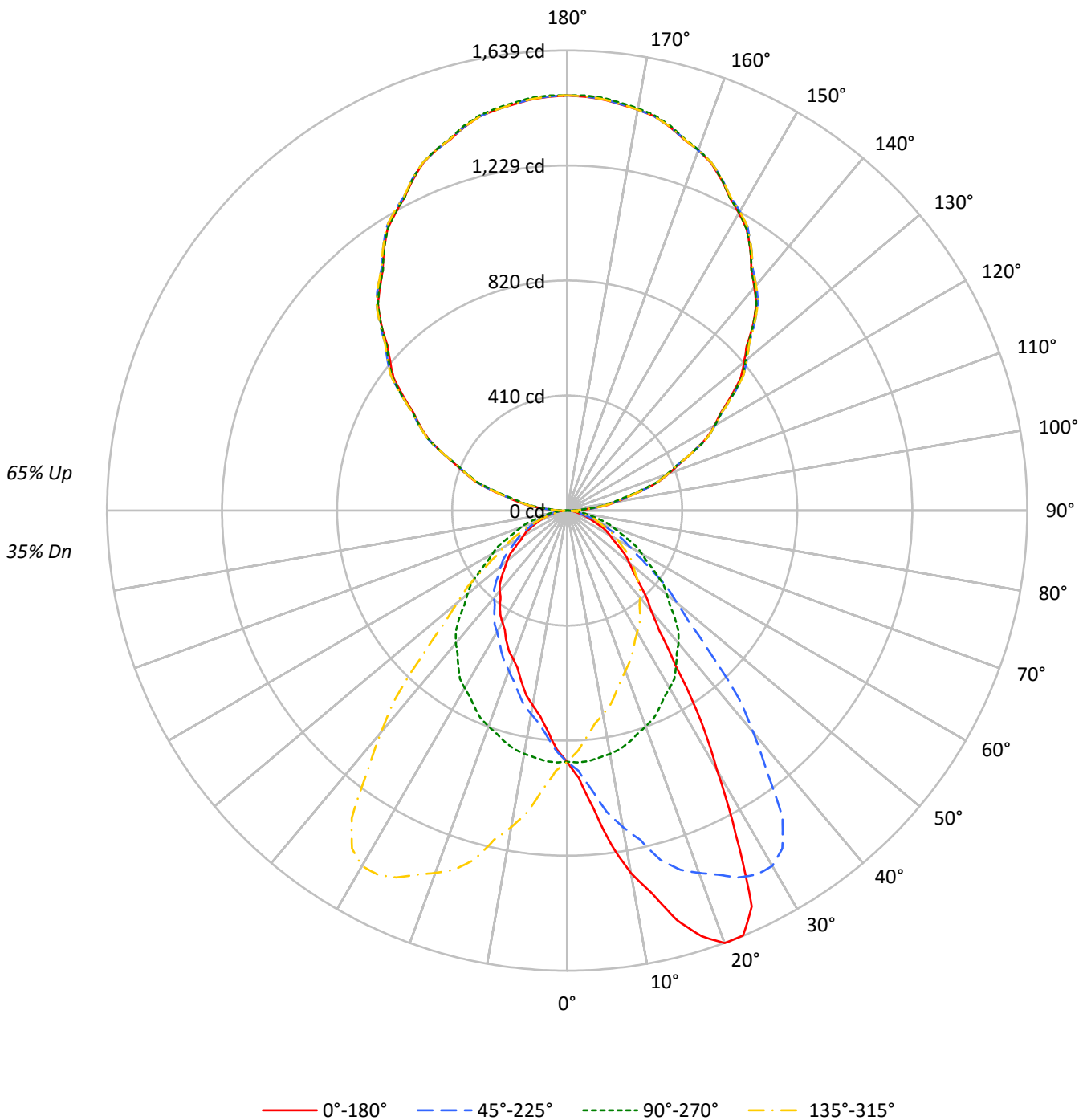
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	30
2	87	80	74	69	78	72	68	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15
7	57	45	38	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	13
9	49	37	30	25	45	34	28	24	28	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9630	9630	9630	9630
5°	11480	9672	8518	9672
10°	14335	9616	7695	9616
15°	16826	9518	7017	9518
20°	18778	9371	6441	9371
25°	18478	9216	6087	9216
30°	13282	9073	5722	9073
35°	8868	8888	5486	8888
40°	6534	8665	5243	8665
45°	5480	8273	5002	8273
50°	4836	7762	4669	7762
55°	4241	7174	4211	7174
60°	3776	6613	3860	6613
65°	3316	6008	3591	6008
70°	2603	5473	3279	5473
75°	2296	4779	2994	4779
80°	1996	4060	2944	4060
85°	1606	3260	3125	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.4
10°-20°	274.9	4.3
20°-30°	431.9	6.8
30°-40°	450.6	7.1
40°-50°	385.6	6.1
50°-60°	293.9	4.6
60°-70°	188.4	3.0
70°-80°	90.6	1.4
80°-90°	28.4	0.4
90°-100°	96.4	1.5
100°-110°	288.4	4.6
110°-120°	490.5	7.7
120°-130°	645.2	10.2
130°-140°	725.2	11.5
140°-150°	712.8	11.3
150°-160°	600.1	9.5
160°-170°	399.5	6.3
170°-180°	139.9	2.2
0°-30°	794.7	12.6
0°-40°	1245.3	19.7
0°-60°	1924.8	30.4
0°-90°	2232.1	35.3
90°-120°	875.3	13.8
90°-150°	2958.5	46.7
90°-180°	4098.0	64.7
0°-180°	6330.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	895	895	895	895	895	
5°	1062	895	788	895	1062	110
15°	1510	854	630	854	1510	428
25°	1556	776	512	776	1556	669
35°	675	676	418	676	675	442
45°	360	544	329	544	360	283
55°	226	382	224	382	226	204
65°	130	236	141	236	130	128
75°	55	115	72	115	55	59
85°	13	26	25	26	13	16
90°	35	1	35	1	35	17
95°	91	69	91	69	91	93
105°	276	261	276	261	276	293
115°	495	494	495	494	495	490
125°	715	723	715	723	715	639
135°	936	938	936	938	936	720
145°	1138	1138	1138	1138	1138	710
155°	1300	1302	1300	1302	1300	599
165°	1414	1419	1414	1419	1414	399
175°	1470	1476	1470	1476	1470	140
180°	1479	1479	1479	1479	1479	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	952.9	954.2	950.2	949.6	945.0	943.8	943.8	937.3	933.3	928.1	925.1
5°	1062.5	1068.6	1065.6	1058.7	1047.2	1044.5	1037.2	1025.7	1012.7	996.6	989.0
7.5°	1199.3	1207.7	1204.4	1193.8	1181.8	1172.0	1151.5	1132.4	1105.7	1082.3	1062.2
10°	1311.5	1302.6	1295.8	1285.4	1274.3	1256.3	1234.9	1205.4	1171.3	1144.5	1114.6
12.5°	1395.4	1394.0	1385.2	1374.6	1358.9	1341.8	1315.4	1279.5	1239.9	1201.1	1167.0
15°	1509.9	1512.2	1506.4	1495.3	1473.1	1442.8	1403.0	1388.1	1331.4	1289.2	1247.1
17.5°	1589.1	1588.6	1587.8	1572.4	1549.8	1528.2	1491.3	1452.0	1400.7	1341.3	1284.6
20°	1639.3	1635.5	1636.3	1619.0	1602.2	1577.3	1541.3	1484.2	1442.1	1373.5	1314.9
22.5°	1638.1	1637.3	1640.2	1634.3	1622.1	1603.0	1574.7	1526.5	1472.7	1403.5	1337.6
25°	1555.8	1552.8	1570.8	1575.7	1595.3	1598.7	1590.3	1563.9	1512.9	1441.7	1360.1
27.5°	1302.1	1300.4	1333.8	1375.6	1428.7	1469.9	1509.7	1528.9	1512.9	1461.9	1380.2
30°	1068.6	1104.6	1121.5	1182.0	1249.4	1329.8	1400.3	1467.3	1483.8	1461.6	1394.6
32.5°	887.2	918.6	932.7	984.7	1047.5	1141.7	1247.4	1342.3	1409.4	1426.4	1386.0
35°	674.9	675.3	707.4	730.4	788.6	885.5	988.2	1115.3	1241.7	1337.5	1347.5
37.5°	538.5	540.4	559.9	582.8	626.5	677.7	768.1	873.8	1019.8	1166.8	1253.0
40°	465.0	468.4	483.0	505.6	537.0	575.7	646.2	745.7	867.5	1031.1	1164.8
42.5°	417.8	423.4	430.9	448.3	467.7	504.0	561.0	637.9	748.6	903.3	1057.5
45°	360.0	363.1	368.8	376.9	394.5	419.8	458.1	509.8	601.7	726.2	880.6
47.5°	317.6	316.0	322.0	328.6	340.3	357.5	383.2	425.4	491.0	590.8	721.8
50°	288.8	288.4	292.6	297.6	308.7	321.4	342.4	374.2	426.3	509.0	628.9
52.5°	261.8	263.3	266.3	272.5	280.5	290.7	309.6	332.5	377.3	448.7	548.6
55°	226.0	227.1	231.3	234.8	240.5	250.9	262.8	281.9	312.5	362.3	444.7
57.5°	195.6	195.1	199.2	200.0	206.5	214.9	224.1	239.0	261.2	298.2	353.7
60°	175.4	174.3	177.7	180.4	183.8	190.7	198.4	213.0	230.6	257.8	305.3
62.5°	157.0	156.5	159.0	161.7	164.5	170.8	177.3	188.4	202.4	225.3	263.0
65°	130.2	131.4	132.5	133.7	135.2	139.0	145.2	152.8	162.4	178.5	205.7
67.5°	102.3	103.5	103.9	106.2	109.5	111.9	115.7	122.5	129.2	142.7	158.2
70°	82.7	82.3	82.7	83.9	88.1	92.3	97.3	102.3	106.5	116.1	129.1
72.5°	71.1	70.4	71.4	71.6	73.7	74.8	78.0	82.7	88.1	94.6	104.0
75°	55.2	55.2	55.2	55.2	56.7	57.5	58.6	59.8	61.7	64.7	71.6
77.5°	40.8	40.8	41.4	41.7	42.1	42.5	43.2	44.4	45.0	46.7	49.6
80°	32.2	32.6	32.2	32.6	32.6	33.3	33.7	34.9	35.2	37.2	38.3
82.5°	24.2	24.0	24.2	24.6	24.6	25.4	25.4	26.3	26.4	27.3	28.5
85°	13.0	12.3	13.0	12.6	13.4	12.6	13.0	13.8	13.8	14.2	15.7
87.5°	10.0	10.5	9.8	10.0	9.9	10.1	9.9	9.7	10.1	9.6	9.2
90°	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0	28.9	27.9	24.5
92.5°	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3	45.4	44.6	42.7
95°	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0	87.0	86.0	83.9
97.5°	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9	135.7	134.5	133.0
100°	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3	171.6	170.8	169.5
102.5°	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2	212.5	211.7	210.0
105°	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2	274.2	274.2	271.9
107.5°	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2	339.4	338.6	337.6
110°	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3	383.3	382.3	381.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4	427.2	425.9	425.8
115°	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5	495.2	495.0	495.5
117.5°	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2	563.2	563.3	564.0
120°	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3	608.6	608.8	610.1
122.5°	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0	654.6	655.3	656.0
125°	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8	722.8	723.9	724.4
127.5°	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8	790.3	791.7	792.3
130°	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3	834.4	835.4	836.2
132.5°	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6	877.8	879.1	879.6
135°	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4	942.4	943.4	943.7
137.5°	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7	1005.8	1006.9	1006.2
140°	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6
142.5°	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4	1085.6	1085.9	1085.4
145°	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8	1143.0	1143.3	1142.5
147.5°	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4	1230.4	1230.4	1229.9
152.5°	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0	1260.6	1260.2	1259.9
155°	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7	1304.7	1303.6	1303.4
157.5°	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1	1343.1	1342.0	1341.8
160°	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8	1366.5	1365.2	1365.2
162.5°	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1	1388.8	1387.5	1387.3
165°	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3	1416.7	1415.2	1415.2
167.5°	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9	1437.7
170°	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0	1450.0
172.5°	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5	1461.9	1460.3	1460.3
175°	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0	1472.5	1470.9	1470.9
177.5°	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8	1477.5	1476.3	1476.3
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	923.8	922.9	918.6	913.7	907.3	903.0	899.6	897.8	892.3	885.5	880.9
5°	980.9	969.4	957.2	942.2	928.4	914.3	905.5	895.1	882.5	868.3	858.3
7.5°	1042.0	1019.5	995.2	970.2	945.4	923.2	903.6	886.8	866.7	846.4	832.1
10°	1088.9	1056.0	1021.9	987.0	955.2	925.4	902.4	879.8	855.7	832.3	814.7
12.5°	1131.5	1088.2	1048.9	1006.0	965.4	929.7	896.6	870.0	841.0	816.1	796.0
15°	1185.4	1141.0	1093.5	1028.4	974.4	929.2	889.0	854.1	818.9	788.3	768.7
17.5°	1235.8	1169.0	1105.2	1050.8	980.7	924.2	875.1	833.4	794.8	762.3	738.2
20°	1256.7	1192.0	1122.6	1053.3	984.4	921.2	864.1	818.1	777.9	741.1	718.9
22.5°	1269.2	1195.9	1122.9	1048.4	975.2	909.5	853.1	802.5	758.9	724.0	696.6
25°	1283.9	1196.5	1116.1	1042.6	967.9	896.6	829.6	776.0	728.9	691.7	662.6
27.5°	1293.5	1190.8	1095.7	1014.0	938.2	867.3	805.9	749.0	701.2	661.9	630.7
30°	1295.4	1186.2	1080.1	991.6	914.6	849.5	784.4	730.0	679.5	637.7	608.6
32.5°	1297.8	1174.9	1059.0	965.0	886.2	821.7	762.7	710.7	658.9	617.8	588.1
35°	1287.7	1168.6	1026.9	918.9	840.0	777.5	724.3	676.4	625.5	585.6	555.4
37.5°	1244.2	1143.7	993.6	866.9	784.4	726.6	683.2	641.5	594.8	551.8	523.3
40°	1200.4	1119.2	967.9	835.4	749.2	689.8	650.7	616.7	571.5	531.2	500.6
42.5°	1135.1	1085.8	943.4	802.3	709.3	652.1	619.2	587.2	547.6	506.7	477.9
45°	1015.4	1021.9	893.2	749.6	654.2	596.7	565.7	543.5	508.3	474.6	445.1
47.5°	865.2	926.1	834.3	693.4	596.1	542.1	515.0	495.6	471.9	438.8	411.9
50°	767.2	854.1	787.1	655.7	559.6	506.0	479.2	463.5	442.8	416.7	391.1
52.5°	676.8	770.2	730.1	613.7	520.1	471.0	444.8	431.9	415.5	391.0	367.8
55°	551.9	646.5	637.3	550.4	460.8	416.7	396.8	382.3	371.1	352.8	334.4
57.5°	446.4	536.1	540.9	479.9	408.5	365.0	347.9	336.9	329.6	315.8	298.8
60°	380.0	462.3	478.4	432.4	371.1	332.8	316.0	307.2	301.4	290.3	277.3
62.5°	324.8	394.9	413.1	380.0	335.3	299.4	286.3	277.8	273.9	264.3	252.8
65°	248.6	306.8	324.4	306.0	282.7	253.9	243.2	235.9	232.5	227.1	218.7
67.5°	186.9	229.4	248.7	235.7	227.3	209.1	202.3	198.4	195.3	191.7	184.6
70°	150.1	181.6	201.5	198.0	191.1	181.6	176.6	173.9	170.8	167.8	161.6
72.5°	120.7	142.3	161.0	162.8	157.1	155.2	150.8	149.7	147.8	144.2	140.8
75°	80.1	95.0	108.0	113.0	115.3	117.2	115.3	114.9	114.5	111.5	109.5
77.5°	52.5	60.5	68.7	77.2	80.8	83.4	84.0	85.4	84.4	82.8	81.9
80°	40.2	42.1	47.9	55.2	60.9	63.2	64.7	65.5	65.1	64.7	63.2
82.5°	29.2	30.8	33.5	38.6	43.4	47.3	48.2	48.0	48.9	49.1	47.9
85°	15.7	16.1	16.9	17.6	20.3	24.5	25.7	26.4	27.2	27.2	24.9
87.5°	9.1	8.2	8.1	7.5	7.9	7.7	9.0	10.0	10.9	10.2	10.7
90°	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2	3.7	6.3	8.9
92.5°	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1	29.9	31.6	33.4
95°	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6	70.4	72.2	74.0
97.5°	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8	123.1	124.5	125.8
100°	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0	159.6	161.1	162.7
102.5°	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8	200.8	201.7	202.6
105°	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4	261.9	262.5	263.0
107.5°	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0	333.3	333.6	333.9
110°	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6	378.1	378.6	379.2



TEST NUMBER: P332295

CATALOG NUMBER: S123RDIP-S560D1195U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1	424.4	424.7	425.0
115°	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8	494.6	495.3	496.1
117.5°	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0	564.5	565.0	565.5
120°	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7	609.2	610.8	612.3
122.5°	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2	654.3	655.5	656.6
125°	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7	723.5	724.2	725.0
127.5°	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8	788.5	790.1	791.8
130°	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6	831.6	833.7	835.8
132.5°	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3	874.4	876.5	878.5
135°	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6	939.2	940.7	942.3
137.5°	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1	999.3	1000.6	1001.9
140°	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9	1041.2	1042.5	1043.8
142.5°	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0	1079.3	1080.6	1081.9
145°	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5	1138.0	1138.5	1139.0
147.5°	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5	1190.5	1191.4	1192.3
150°	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8	1226.3	1226.8	1227.3
152.5°	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5	1256.3	1257.0	1257.7
155°	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4	1342.1	1341.8	1341.5
160°	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5	1367.0	1366.5	1366.0
162.5°	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8	1389.1	1388.4	1387.7
165°	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7	1417.9	1417.1	1416.3
167.5°	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7	1440.6	1439.6	1438.6
170°	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7	1453.6	1452.6	1451.6
172.5°	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9	1463.9	1462.8	1461.8
175°	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6	1474.6	1473.5	1472.5
177.5°	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0	1479.2	1478.4	1477.5
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	879.4	875.4	872.7	866.5	862.6	858.3	854.0	856.7	856.4	856.1	856.1
5°	849.9	841.1	833.1	822.7	816.2	808.2	802.0	801.3	802.8	797.4	794.4
7.5°	820.7	808.6	797.2	785.8	773.7	764.0	758.0	755.2	751.3	748.0	744.5
10°	800.1	786.0	774.8	760.7	747.7	736.2	728.9	723.9	721.2	718.5	713.6
12.5°	779.0	765.1	750.9	734.9	722.5	709.2	703.8	698.2	693.0	690.0	683.2
15°	748.0	730.0	715.1	698.2	684.5	671.4	663.8	652.7	651.1	647.3	640.4
17.5°	717.0	697.5	676.9	664.4	648.8	635.3	623.6	619.9	608.9	604.8	598.8
20°	692.5	674.5	658.8	642.3	619.7	607.1	597.9	592.9	584.1	578.7	574.9
22.5°	671.4	653.0	634.9	615.7	597.0	582.9	576.1	568.4	563.6	556.1	551.9
25°	641.2	621.3	599.4	578.7	565.3	554.6	543.9	537.0	530.1	526.6	519.0
27.5°	606.1	585.3	564.9	549.2	532.7	522.1	512.4	506.3	498.0	492.2	488.0
30°	586.8	562.3	544.7	530.5	509.4	499.5	492.2	484.5	478.4	472.3	468.0
32.5°	564.4	542.0	525.3	507.8	491.6	480.8	471.3	464.6	459.4	453.6	449.4
35°	529.3	510.6	493.3	475.7	463.8	452.7	441.6	435.9	430.9	425.5	421.7
37.5°	497.6	480.1	463.7	447.0	432.3	423.2	414.3	409.9	403.2	399.6	395.7
40°	478.0	460.8	443.2	427.1	411.7	404.9	396.8	390.3	384.2	381.5	377.3
42.5°	456.6	439.3	424.5	407.1	394.6	385.2	377.8	370.7	366.1	362.2	359.8
45°	424.8	409.4	394.9	377.7	365.8	357.7	349.3	342.8	338.6	335.9	331.7
47.5°	393.9	378.6	363.8	348.8	337.3	328.1	319.7	315.1	309.6	306.3	303.4
50°	371.5	357.7	342.0	328.2	316.8	307.6	300.7	294.9	289.9	285.7	283.8
52.5°	351.0	336.3	322.7	309.9	297.8	287.3	281.1	275.0	271.3	266.4	264.2
55°	317.1	303.0	291.5	278.8	267.0	258.2	250.5	245.1	241.3	235.9	232.9
57.5°	285.3	272.6	258.9	248.0	235.7	228.3	221.9	214.6	210.0	205.8	202.8
60°	263.9	249.3	237.5	227.1	216.4	206.8	201.1	195.3	190.4	186.1	183.5
62.5°	241.5	228.8	217.6	206.3	196.5	188.1	181.5	176.6	172.3	169.6	166.9
65°	207.2	197.3	185.8	176.6	167.4	161.3	155.9	151.7	148.6	146.7	144.4
67.5°	175.7	166.0	156.0	146.9	140.8	136.1	132.6	129.0	127.5	125.0	123.5
70°	155.1	145.2	136.4	129.5	123.3	119.9	117.6	114.9	113.4	110.3	108.8
72.5°	132.8	125.6	119.2	113.5	108.6	105.5	102.6	99.3	96.8	93.5	91.9
75°	104.6	98.1	93.1	89.2	86.2	82.0	77.8	74.3	73.2	72.0	71.6
77.5°	77.4	73.3	69.7	66.5	62.7	59.6	58.7	57.9	57.7	57.1	57.1
80°	60.9	57.1	54.4	50.6	48.3	48.3	48.3	47.5	47.9	47.9	47.9
82.5°	45.3	41.7	40.3	38.9	38.5	38.8	38.8	38.9	38.7	39.3	39.0
85°	23.4	23.7	24.5	24.1	24.5	24.5	25.3	24.9	25.3	24.5	25.3
87.5°	10.9	12.4	13.4	14.3	15.3	15.7	16.2	16.4	16.9	17.1	17.3
90°	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0	31.0	32.0	32.8
92.5°	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3	47.1	47.9	48.2
95°	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0	89.1	90.1	90.6
97.5°	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9	138.1	139.3	139.8
100°	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3	173.1	173.9	174.5
102.5°	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2	214.0	214.8	215.1
105°	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2	274.2	274.2	274.5
107.5°	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2	341.1	341.9	342.1
110°	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3	385.4	386.4	386.6



TEST NUMBER: P332295

CATALOG NUMBER: S123RDIP-S560D1195U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4	429.7	430.9	431.5
115°	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5	495.7	496.0	496.0
117.5°	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2	563.1	563.1	562.7
120°	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3	608.1	607.8	607.4
122.5°	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0	653.3	652.6	651.9
125°	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8	720.8	719.7	718.7
127.5°	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8	787.4	785.9	784.6
130°	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3	832.3	831.3	829.8
132.5°	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6	875.4	874.1	872.8
135°	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4	940.3	939.3	938.5
137.5°	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7	1003.6	1002.5	1001.5
140°	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1044.8
142.5°	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4	1085.1	1084.9	1084.0
145°	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8	1142.5	1142.3	1141.6
147.5°	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4	1230.4	1230.4	1229.7
152.5°	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0	1261.4	1261.8	1261.4
155°	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7	1306.7	1307.8	1307.4
157.5°	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1	1345.2	1346.3	1346.1
160°	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8	1369.1	1370.4	1370.5
162.5°	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1	1391.4	1392.7	1392.5
165°	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3	1419.8	1421.4	1421.2
167.5°	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3
170°	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3
172.5°	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5	1465.1	1466.7	1466.6
175°	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0	1475.6	1477.1	1477.0
177.5°	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8	1480.0	1481.2	1481.1
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



TEST NUMBER: P332295

CATALOG NUMBER: S123RDIP-S560D1195U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	852.4	852.1	852.4	851.2	852.4	852.1	852.4	856.1	856.1	856.4	856.7
5°	793.2	792.8	791.7	788.3	791.7	792.8	793.2	794.4	797.4	802.8	801.3
7.5°	741.5	741.0	737.6	737.7	737.6	741.0	741.5	744.5	748.0	751.3	755.2
10°	710.9	711.3	706.7	704.0	706.7	711.3	710.9	713.6	718.5	721.2	723.9
12.5°	681.2	679.4	675.7	672.7	675.7	679.4	681.2	683.2	690.0	693.0	698.2
15°	641.9	638.1	628.9	629.7	628.9	638.1	641.9	640.4	647.3	651.1	652.7
17.5°	595.7	592.9	592.8	587.4	592.8	592.9	595.7	598.8	604.8	608.9	619.9
20°	568.8	566.9	567.6	562.3	567.6	566.9	568.8	574.9	578.7	584.1	592.9
22.5°	547.6	545.7	542.5	540.8	542.5	545.7	547.6	551.9	556.1	563.6	568.4
25°	516.7	513.6	510.6	512.5	510.6	513.6	516.7	519.0	526.6	530.1	537.0
27.5°	485.7	483.4	480.4	480.0	480.4	483.4	485.7	488.0	492.2	498.0	506.3
30°	466.1	463.8	462.3	460.4	462.3	463.8	466.1	468.0	472.3	478.4	484.5
32.5°	446.2	445.8	443.0	442.6	443.0	445.8	446.2	449.4	453.6	459.4	464.6
35°	420.2	417.9	417.1	417.5	417.1	417.9	420.2	421.7	425.5	430.9	435.9
37.5°	395.4	392.4	391.0	389.6	391.0	392.4	395.4	395.7	399.6	403.2	409.9
40°	377.7	374.6	373.8	373.1	373.8	374.6	377.7	377.3	381.5	384.2	390.3
42.5°	357.7	356.5	356.1	354.7	356.1	356.5	357.7	359.8	362.2	366.1	370.7
45°	330.5	330.2	327.9	328.6	327.9	330.2	330.5	331.7	335.9	338.6	342.8
47.5°	301.9	300.2	298.6	299.7	298.6	300.2	301.9	303.4	306.3	309.6	315.1
50°	282.3	281.5	278.1	278.8	278.1	281.5	282.3	283.8	285.7	289.9	294.9
52.5°	262.7	259.8	258.5	258.0	258.5	259.8	262.7	264.2	266.4	271.3	275.0
55°	230.2	226.7	225.2	224.4	225.2	226.7	230.2	232.9	235.9	241.3	245.1
57.5°	198.3	197.4	196.2	197.0	196.2	197.4	198.3	202.8	205.8	210.0	214.6
60°	179.6	179.6	179.6	179.3	179.6	179.6	179.6	183.5	186.1	190.4	195.3
62.5°	165.2	164.3	164.0	164.5	164.0	164.3	165.2	166.9	169.6	172.3	176.6
65°	143.2	142.9	141.3	141.0	141.3	142.9	143.2	144.4	146.7	148.6	151.7
67.5°	122.5	121.1	120.7	120.1	120.7	121.1	122.5	123.5	125.0	127.5	129.0
70°	106.9	106.1	103.8	104.2	103.8	106.1	106.9	108.8	110.3	113.4	114.9
72.5°	90.0	89.2	88.8	88.2	88.8	89.2	90.0	91.9	93.5	96.8	99.3
75°	71.2	70.9	70.5	72.0	70.5	70.9	71.2	71.6	72.0	73.2	74.3
77.5°	57.1	57.1	57.3	56.7	57.3	57.1	57.1	57.1	57.1	57.7	57.9
80°	47.9	47.9	47.5	47.5	47.5	47.9	47.9	47.9	47.9	47.9	47.5
82.5°	38.4	38.7	38.9	38.3	38.9	38.7	38.4	39.0	39.3	38.7	38.9
85°	25.3	24.9	25.7	25.3	25.7	24.9	25.3	25.3	24.5	25.3	24.9
87.5°	18.0	17.5	17.6	18.0	17.6	17.5	18.0	17.3	17.1	16.9	16.4
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0
92.5°	47.9	47.6	47.2	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3
95°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0
97.5°	139.7	139.6	139.5	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9
100°	175.1	175.6	176.1	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3
102.5°	215.0	214.9	214.8	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2
105°	275.0	275.5	276.0	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2
107.5°	341.8	341.5	341.2	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2
110°	386.1	385.6	385.1	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	431.4	431.3	431.2	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4
115°	495.7	495.5	495.2	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5
117.5°	562.0	561.2	560.5	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2
120°	606.9	606.4	605.9	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3
122.5°	651.2	650.5	649.7	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0
125°	717.7	716.6	715.6	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8
127.5°	783.4	782.2	781.0	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8
130°	828.0	826.2	824.4	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3
132.5°	871.4	870.0	868.6	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6
135°	938.0	937.5	937.0	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4
137.5°	1000.5	999.6	998.6	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7
140°	1043.0	1041.2	1039.4	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3
142.5°	1082.6	1081.2	1079.9	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4
145°	1140.6	1139.5	1138.5	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8
147.5°	1194.6	1193.1	1191.5	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0
150°	1228.1	1226.6	1225.0	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4
152.5°	1260.0	1258.7	1257.3	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0
155°	1305.6	1303.8	1302.0	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7
157.5°	1344.7	1343.2	1341.8	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1
160°	1369.5	1368.4	1367.4	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8
162.5°	1390.8	1389.2	1387.5	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1
165°	1419.4	1417.6	1415.8	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3
167.5°	1442.7	1441.1	1439.5	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1
170°	1455.5	1453.6	1451.8	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6
172.5°	1464.7	1462.9	1461.1	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5
175°	1475.2	1473.4	1471.6	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0
177.5°	1479.7	1478.2	1476.8	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	854.0	858.3	862.6	866.5	872.7	875.4	879.4	880.9	885.5	892.3	897.8
5°	802.0	808.2	816.2	822.7	833.1	841.1	849.9	858.3	868.3	882.5	895.1
7.5°	758.0	764.0	773.7	785.8	797.2	808.6	820.7	832.1	846.4	866.7	886.8
10°	728.9	736.2	747.7	760.7	774.8	786.0	800.1	814.7	832.3	855.7	879.8
12.5°	703.8	709.2	722.5	734.9	750.9	765.1	779.0	796.0	816.1	841.0	870.0
15°	663.8	671.4	684.5	698.2	715.1	730.0	748.0	768.7	788.3	818.9	854.1
17.5°	623.6	635.3	648.8	664.4	676.9	697.5	717.0	738.2	762.3	794.8	833.4
20°	597.9	607.1	619.7	642.3	658.8	674.5	692.5	718.9	741.1	777.9	818.1
22.5°	576.1	582.9	597.0	615.7	634.9	653.0	671.4	696.6	724.0	758.9	802.5
25°	543.9	554.6	565.3	578.7	599.4	621.3	641.2	662.6	691.7	728.9	776.0
27.5°	512.4	522.1	532.7	549.2	564.9	585.3	606.1	630.7	661.9	701.2	749.0
30°	492.2	499.5	509.4	530.5	544.7	562.3	586.8	608.6	637.7	679.5	730.0
32.5°	471.3	480.8	491.6	507.8	525.3	542.0	564.4	588.1	617.8	658.9	710.7
35°	441.6	452.7	463.8	475.7	493.3	510.6	529.3	555.4	585.6	625.5	676.4
37.5°	414.3	423.2	432.3	447.0	463.7	480.1	497.6	523.3	551.8	594.8	641.5
40°	396.8	404.9	411.7	427.1	443.2	460.8	478.0	500.6	531.2	571.5	616.7
42.5°	377.8	385.2	394.6	407.1	424.5	439.3	456.6	477.9	506.7	547.6	587.2
45°	349.3	357.7	365.8	377.7	394.9	409.4	424.8	445.1	474.6	508.3	543.5
47.5°	319.7	328.1	337.3	348.8	363.8	378.6	393.9	411.9	438.8	471.9	495.6
50°	300.7	307.6	316.8	328.2	342.0	357.7	371.5	391.1	416.7	442.8	463.5
52.5°	281.1	287.3	297.8	309.9	322.7	336.3	351.0	367.8	391.0	415.5	431.9
55°	250.5	258.2	267.0	278.8	291.5	303.0	317.1	334.4	352.8	371.1	382.3
57.5°	221.9	228.3	235.7	248.0	258.9	272.6	285.3	298.8	315.8	329.6	336.9
60°	201.1	206.8	216.4	227.1	237.5	249.3	263.9	277.3	290.3	301.4	307.2
62.5°	181.5	188.1	196.5	206.3	217.6	228.8	241.5	252.8	264.3	273.9	277.8
65°	155.9	161.3	167.4	176.6	185.8	197.3	207.2	218.7	227.1	232.5	235.9
67.5°	132.6	136.1	140.8	146.9	156.0	166.0	175.7	184.6	191.7	195.3	198.4
70°	117.6	119.9	123.3	129.5	136.4	145.2	155.1	161.6	167.8	170.8	173.9
72.5°	102.6	105.5	108.6	113.5	119.2	125.6	132.8	140.8	144.2	147.8	149.7
75°	77.8	82.0	86.2	89.2	93.1	98.1	104.6	109.5	111.5	114.5	114.9
77.5°	58.7	59.6	62.7	66.5	69.7	73.3	77.4	81.9	82.8	84.4	85.4
80°	48.3	48.3	48.3	50.6	54.4	57.1	60.9	63.2	64.7	65.1	65.5
82.5°	38.8	38.8	38.5	38.9	40.3	41.7	45.3	47.9	49.1	48.9	48.0
85°	25.3	24.5	24.5	24.1	24.5	23.7	23.4	24.9	27.2	27.2	26.4
87.5°	16.2	15.7	15.3	14.3	13.4	12.4	10.9	10.7	10.2	10.9	10.0
90°	28.9	27.9	24.5	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2
92.5°	45.4	44.6	42.7	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1
95°	87.0	86.0	83.9	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6
97.5°	135.7	134.5	133.0	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8
100°	171.6	170.8	169.5	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0
102.5°	212.5	211.7	210.0	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8
105°	274.2	274.2	271.9	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4
107.5°	339.4	338.6	337.6	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0
110°	383.3	382.3	381.7	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6



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CATALOG NUMBER: S123RDIP-S560D1195U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	427.2	425.9	425.8	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1
115°	495.2	495.0	495.5	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8
117.5°	563.2	563.3	564.0	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0
120°	608.6	608.8	610.1	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7
122.5°	654.6	655.3	656.0	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2
125°	722.8	723.9	724.4	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7
127.5°	790.3	791.7	792.3	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8
130°	834.4	835.4	836.2	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6
132.5°	877.8	879.1	879.6	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3
135°	942.4	943.4	943.7	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6
137.5°	1005.8	1006.9	1006.2	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1
140°	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9
142.5°	1085.6	1085.9	1085.4	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0
145°	1143.0	1143.3	1142.5	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5
147.5°	1197.0	1197.0	1196.2	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5
150°	1230.4	1230.4	1229.9	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8
152.5°	1260.6	1260.2	1259.9	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5
155°	1304.7	1303.6	1303.4	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1343.1	1342.0	1341.8	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4
160°	1366.5	1365.2	1365.2	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5
162.5°	1388.8	1387.5	1387.3	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8
165°	1416.7	1415.2	1415.2	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7
167.5°	1439.5	1437.9	1437.7	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7
170°	1451.8	1450.0	1450.0	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7
172.5°	1461.9	1460.3	1460.3	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9
175°	1472.5	1470.9	1470.9	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6
177.5°	1477.5	1476.3	1476.3	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



TEST NUMBER: P332295

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	899.6	903.0	907.3	913.7	918.6	922.9	923.8	925.1	928.1	933.3	937.3
5°	905.5	914.3	928.4	942.2	957.2	969.4	980.9	989.0	996.6	1012.7	1025.7
7.5°	903.6	923.2	945.4	970.2	995.2	1019.5	1042.0	1062.2	1082.3	1105.7	1132.4
10°	902.4	925.4	955.2	987.0	1021.9	1056.0	1088.9	1114.6	1144.5	1171.3	1205.4
12.5°	896.6	929.7	965.4	1006.0	1048.9	1088.2	1131.5	1167.0	1201.1	1239.9	1279.5
15°	889.0	929.2	974.4	1028.4	1093.5	1141.0	1185.4	1247.1	1289.2	1331.4	1388.1
17.5°	875.1	924.2	980.7	1050.8	1105.2	1169.0	1235.8	1284.6	1341.3	1400.7	1452.0
20°	864.1	921.2	984.4	1053.3	1122.6	1192.0	1256.7	1314.9	1373.5	1442.1	1484.2
22.5°	853.1	909.5	975.2	1048.4	1122.9	1195.9	1269.2	1337.6	1403.5	1472.7	1526.5
25°	829.6	896.6	967.9	1042.6	1116.1	1196.5	1283.9	1360.1	1441.7	1512.9	1563.9
27.5°	805.9	867.3	938.2	1014.0	1095.7	1190.8	1293.5	1380.2	1461.9	1512.9	1528.9
30°	784.4	849.5	914.6	991.6	1080.1	1186.2	1295.4	1394.6	1461.6	1483.8	1467.3
32.5°	762.7	821.7	886.2	965.0	1059.0	1174.9	1297.8	1386.0	1426.4	1409.4	1342.3
35°	724.3	777.5	840.0	918.9	1026.9	1168.6	1287.7	1347.5	1337.5	1241.7	1115.3
37.5°	683.2	726.6	784.4	866.9	993.6	1143.7	1244.2	1253.0	1166.8	1019.8	873.8
40°	650.7	689.8	749.2	835.4	967.9	1119.2	1200.4	1164.8	1031.1	867.5	745.7
42.5°	619.2	652.1	709.3	802.3	943.4	1085.8	1135.1	1057.5	903.3	748.6	637.9
45°	565.7	596.7	654.2	749.6	893.2	1021.9	1015.4	880.6	726.2	601.7	509.8
47.5°	515.0	542.1	596.1	693.4	834.3	926.1	865.2	721.8	590.8	491.0	425.4
50°	479.2	506.0	559.6	655.7	787.1	854.1	767.2	628.9	509.0	426.3	374.2
52.5°	444.8	471.0	520.1	613.7	730.1	770.2	676.8	548.6	448.7	377.3	332.5
55°	396.8	416.7	460.8	550.4	637.3	646.5	551.9	444.7	362.3	312.5	281.9
57.5°	347.9	365.0	408.5	479.9	540.9	536.1	446.4	353.7	298.2	261.2	239.0
60°	316.0	332.8	371.1	432.4	478.4	462.3	380.0	305.3	257.8	230.6	213.0
62.5°	286.3	299.4	335.3	380.0	413.1	394.9	324.8	263.0	225.3	202.4	188.4
65°	243.2	253.9	282.7	306.0	324.4	306.8	248.6	205.7	178.5	162.4	152.8
67.5°	202.3	209.1	227.3	235.7	248.7	229.4	186.9	158.2	142.7	129.2	122.5
70°	176.6	181.6	191.1	198.0	201.5	181.6	150.1	129.1	116.1	106.5	102.3
72.5°	150.8	155.2	157.1	162.8	161.0	142.3	120.7	104.0	94.6	88.1	82.7
75°	115.3	117.2	115.3	113.0	108.0	95.0	80.1	71.6	64.7	61.7	59.8
77.5°	84.0	83.4	80.8	77.2	68.7	60.5	52.5	49.6	46.7	45.0	44.4
80°	64.7	63.2	60.9	55.2	47.9	42.1	40.2	38.3	37.2	35.2	34.9
82.5°	48.2	47.3	43.4	38.6	33.5	30.8	29.2	28.5	27.3	26.4	26.3
85°	25.7	24.5	20.3	17.6	16.9	16.1	15.7	15.7	14.2	13.8	13.8
87.5°	9.0	7.7	7.9	7.5	8.1	8.2	9.1	9.2	9.6	10.1	9.7
90°	3.7	6.3	8.9	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0
92.5°	29.9	31.6	33.4	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3
95°	70.4	72.2	74.0	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0
97.5°	123.1	124.5	125.8	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9
100°	159.6	161.1	162.7	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3
102.5°	200.8	201.7	202.6	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2
105°	261.9	262.5	263.0	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2
107.5°	333.3	333.6	333.9	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2
110°	378.1	378.6	379.2	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	424.4	424.7	425.0	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4
115°	494.6	495.3	496.1	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5
117.5°	564.5	565.0	565.5	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2
120°	609.2	610.8	612.3	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3
122.5°	654.3	655.5	656.6	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0
125°	723.5	724.2	725.0	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8
127.5°	788.5	790.1	791.8	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8
130°	831.6	833.7	835.8	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3
132.5°	874.4	876.5	878.5	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6
135°	939.2	940.7	942.3	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4
137.5°	999.3	1000.6	1001.9	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7
140°	1041.2	1042.5	1043.8	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3
142.5°	1079.3	1080.6	1081.9	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4
145°	1138.0	1138.5	1139.0	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8
147.5°	1190.5	1191.4	1192.3	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0
150°	1226.3	1226.8	1227.3	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4
152.5°	1256.3	1257.0	1257.7	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0
155°	1302.5	1302.5	1302.5	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7
157.5°	1342.1	1341.8	1341.5	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1
160°	1367.0	1366.5	1366.0	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8
162.5°	1389.1	1388.4	1387.7	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1
165°	1417.9	1417.1	1416.3	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3
167.5°	1440.6	1439.6	1438.6	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1
170°	1453.6	1452.6	1451.6	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6
172.5°	1463.9	1462.8	1461.8	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5
175°	1474.6	1473.5	1472.5	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0
177.5°	1479.2	1478.4	1477.5	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	943.8	943.8	945.0	949.6	950.2	954.2	952.9
5°	1037.2	1044.5	1047.2	1058.7	1065.6	1068.6	1062.5
7.5°	1151.5	1172.0	1181.8	1193.8	1204.4	1207.7	1199.3
10°	1234.9	1256.3	1274.3	1285.4	1295.8	1302.6	1311.5
12.5°	1315.4	1341.8	1358.9	1374.6	1385.2	1394.0	1395.4
15°	1403.0	1442.8	1473.1	1495.3	1506.4	1512.2	1509.9
17.5°	1491.3	1528.2	1549.8	1572.4	1587.8	1588.6	1589.1
20°	1541.3	1577.3	1602.2	1619.0	1636.3	1635.5	1639.3
22.5°	1574.7	1603.0	1622.1	1634.3	1640.2	1637.3	1638.1
25°	1590.3	1598.7	1595.3	1575.7	1570.8	1552.8	1555.8
27.5°	1509.7	1469.9	1428.7	1375.6	1333.8	1300.4	1302.1
30°	1400.3	1329.8	1249.4	1182.0	1121.5	1104.6	1068.6
32.5°	1247.4	1141.7	1047.5	984.7	932.7	918.6	887.2
35°	988.2	885.5	788.6	730.4	707.4	675.3	674.9
37.5°	768.1	677.7	626.5	582.8	559.9	540.4	538.5
40°	646.2	575.7	537.0	505.6	483.0	468.4	465.0
42.5°	561.0	504.0	467.7	448.3	430.9	423.4	417.8
45°	458.1	419.8	394.5	376.9	368.8	363.1	360.0
47.5°	383.2	357.5	340.3	328.6	322.0	316.0	317.6
50°	342.4	321.4	308.7	297.6	292.6	288.4	288.8
52.5°	309.6	290.7	280.5	272.5	266.3	263.3	261.8
55°	262.8	250.9	240.5	234.8	231.3	227.1	226.0
57.5°	224.1	214.9	206.5	200.0	199.2	195.1	195.6
60°	198.4	190.7	183.8	180.4	177.7	174.3	175.4
62.5°	177.3	170.8	164.5	161.7	159.0	156.5	157.0
65°	145.2	139.0	135.2	133.7	132.5	131.4	130.2
67.5°	115.7	111.9	109.5	106.2	103.9	103.5	102.3
70°	97.3	92.3	88.1	83.9	82.7	82.3	82.7
72.5°	78.0	74.8	73.7	71.6	71.4	70.4	71.1
75°	58.6	57.5	56.7	55.2	55.2	55.2	55.2
77.5°	43.2	42.5	42.1	41.7	41.4	40.8	40.8
80°	33.7	33.3	32.6	32.6	32.2	32.6	32.2
82.5°	25.4	25.4	24.6	24.6	24.2	24.0	24.2
85°	13.0	12.6	13.4	12.6	13.0	12.3	13.0
87.5°	9.9	10.1	9.9	10.0	9.8	10.5	10.0
90°	31.0	32.0	32.8	33.3	33.8	34.3	34.9
92.5°	47.1	47.9	48.2	47.9	47.6	47.2	46.9
95°	89.1	90.1	90.6	90.6	90.6	90.6	90.6
97.5°	138.1	139.3	139.8	139.7	139.6	139.5	139.4
100°	173.1	173.9	174.5	175.1	175.6	176.1	176.6
102.5°	214.0	214.8	215.1	215.0	214.9	214.8	214.7
105°	274.2	274.2	274.5	275.0	275.5	276.0	276.5
107.5°	341.1	341.9	342.1	341.8	341.5	341.2	340.9
110°	385.4	386.4	386.6	386.1	385.6	385.1	384.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	429.7	430.9	431.5	431.4	431.3	431.2	431.1
115°	495.7	496.0	496.0	495.7	495.5	495.2	495.0
117.5°	563.1	563.1	562.7	562.0	561.2	560.5	559.8
120°	608.1	607.8	607.4	606.9	606.4	605.9	605.3
122.5°	653.3	652.6	651.9	651.2	650.5	649.7	649.0
125°	720.8	719.7	718.7	717.7	716.6	715.6	714.6
127.5°	787.4	785.9	784.6	783.4	782.2	781.0	779.9
130°	832.3	831.3	829.8	828.0	826.2	824.4	822.6
132.5°	875.4	874.1	872.8	871.4	870.0	868.6	867.2
135°	940.3	939.3	938.5	938.0	937.5	937.0	936.5
137.5°	1003.6	1002.5	1001.5	1000.5	999.6	998.6	997.6
140°	1046.1	1045.8	1044.8	1043.0	1041.2	1039.4	1037.6
142.5°	1085.1	1084.9	1084.0	1082.6	1081.2	1079.9	1078.5
145°	1142.5	1142.3	1141.6	1140.6	1139.5	1138.5	1137.5
147.5°	1197.0	1197.0	1196.2	1194.6	1193.1	1191.5	1190.0
150°	1230.4	1230.4	1229.7	1228.1	1226.6	1225.0	1223.5
152.5°	1261.4	1261.8	1261.4	1260.0	1258.7	1257.3	1256.0
155°	1306.7	1307.8	1307.4	1305.6	1303.8	1302.0	1300.1
157.5°	1345.2	1346.3	1346.1	1344.7	1343.2	1341.8	1340.3
160°	1369.1	1370.4	1370.5	1369.5	1368.4	1367.4	1366.4
162.5°	1391.4	1392.7	1392.5	1390.8	1389.2	1387.5	1385.9
165°	1419.8	1421.4	1421.2	1419.4	1417.6	1415.8	1414.0
167.5°	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9
170°	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0
172.5°	1465.1	1466.7	1466.6	1464.7	1462.9	1461.1	1459.3
175°	1475.6	1477.1	1477.0	1475.2	1473.4	1471.6	1469.8
177.5°	1480.0	1481.2	1481.1	1479.7	1478.2	1476.8	1475.4
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1

(END OF REPORT)