

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: P333032

Luminaire Tested: **S124RDIW-S350D1560U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333032  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S350D1560U835-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6899.8 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Indirect

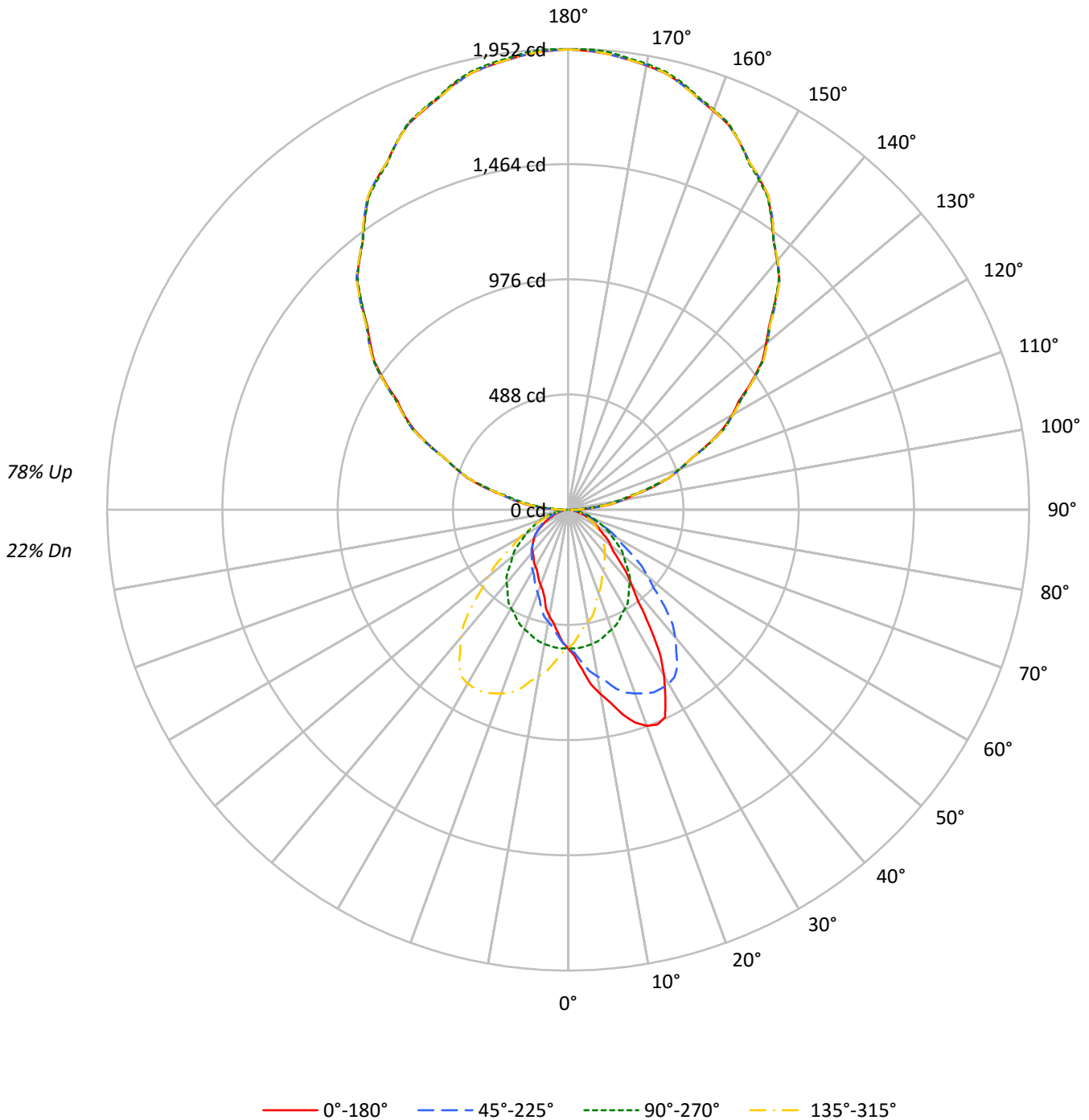
Input Watts (W): 53.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22																				
1	92	88	84	81	81	78	75	72	59	57	56	42	41	40	27	26	26	19																				
2	84	77	71	66	74	68	63	59	52	49	46	37	35	34	24	23	22	16																				
3	76	67	61	55	67	60	54	50	46	42	39	33	31	29	21	20	19	14																				
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	19	18	16	12																				
5	64	53	45	40	56	47	41	36	37	32	29	27	24	21	17	16	14	10																				
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9																				
7	54	43	35	30	48	38	32	27	30	25	22	22	19	16	14	13	11	8																				
8	50	39	31	26	44	35	28	24	27	22	19	20	17	15	13	11	10	7																				
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7																				
10	43	32	25	21	38	29	23	19	23	18	15	17	14	12	11	9	8	6																				

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

	0°	90°	180°	270°
0°	4742	4742	4742	4742
5°	5501	4756	4204	4756
10°	6507	4736	3752	4736
15°	7516	4692	3224	4692
20°	8369	4631	2916	4631
25°	8639	4572	2707	4572
30°	7563	4501	2581	4501
35°	5887	4394	2505	4394
40°	4415	4272	2464	4272
45°	3486	4077	2442	4077
50°	2943	3852	2372	3852
55°	2564	3605	2245	3605
60°	2307	3347	1988	3347
65°	2034	3070	1710	3070
70°	1832	2783	1541	2783
75°	1535	2464	1313	2464
80°	1297	2101	1232	2101
85°	1093	1649	1093	1649



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	0.8
10°-20°	171.7	2.5
20°-30°	268.5	3.9
30°-40°	298.5	4.3
40°-50°	264.9	3.8
50°-60°	206.4	3.0
60°-70°	135.1	2.0
70°-80°	66.4	1.0
80°-90°	22.2	0.3
90°-100°	128.6	1.9
100°-110°	380.9	5.5
110°-120°	646.6	9.4
120°-130°	852.5	12.4
130°-140°	957.5	13.9
140°-150°	940.9	13.6
150°-160°	791.3	11.5
160°-170°	526.5	7.6
170°-180°	184.4	2.7
0°-30°	497.1	7.2
0°-40°	795.6	11.5
0°-60°	1266.9	18.4
0°-90°	1490.6	21.6
90°-120°	1156.1	16.8
90°-150°	3906.9	56.6
90°-180°	5409.0	78.4
0°-180°	6899.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	587	587	587	587	587	
5°	679	587	519	587	679	69
15°	899	561	386	561	899	256
25°	970	513	304	513	970	430
35°	597	446	254	446	597	374
45°	305	357	214	357	305	242
55°	182	256	160	256	182	166
65°	106	161	90	161	106	107
75°	49	79	42	79	49	54
85°	12	18	12	18	12	15
90°	45	4	45	4	45	23
95°	119	90	119	90	119	124
105°	368	351	368	351	368	388
115°	651	657	651	657	651	644
125°	950	958	950	958	950	847
135°	1236	1235	1236	1235	1236	955
145°	1502	1500	1502	1500	1502	940
155°	1717	1719	1717	1719	1717	791
165°	1867	1871	1867	1871	1867	526
175°	1938	1947	1938	1947	1938	184
180°	1950	1950	1950	1950	1950	



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	619.6	621.3	619.6	619.4	617.5	616.9	616.2	613.7	609.2	606.5	607.1
5°	678.8	684.7	681.4	680.9	675.7	670.5	667.2	659.6	651.5	646.1	641.6
7.5°	747.2	750.6	748.5	745.2	736.8	732.0	724.3	714.4	699.9	688.9	678.8
10°	793.8	796.6	795.7	789.5	783.4	770.8	763.7	749.8	731.5	717.1	703.6
12.5°	839.6	842.6	834.3	834.6	822.9	813.0	801.8	784.2	763.2	744.6	727.7
15°	899.3	895.5	895.5	890.8	877.8	864.1	852.5	834.0	807.5	785.3	761.8
17.5°	946.1	947.4	945.5	934.3	924.1	909.9	888.6	867.1	842.5	812.6	788.7
20°	974.1	974.1	972.0	964.4	951.2	936.0	913.1	889.6	858.4	828.3	801.4
22.5°	985.5	986.2	983.7	977.5	965.6	950.8	931.2	907.4	875.2	841.4	808.0
25°	969.9	974.4	974.8	973.2	969.6	960.6	943.8	919.5	890.6	853.9	817.9
27.5°	890.4	896.1	901.1	909.3	920.2	925.8	926.6	914.2	889.0	853.7	817.5
30°	811.3	816.0	831.4	851.5	867.1	881.3	893.7	897.0	882.8	851.1	813.0
32.5°	723.4	729.9	745.3	766.9	792.9	817.0	844.6	858.7	858.3	839.3	804.1
35°	597.3	602.1	616.3	639.0	670.2	706.0	749.8	783.8	807.0	805.4	783.8
37.5°	481.8	487.1	501.4	520.3	550.6	594.8	637.2	684.2	727.0	751.1	743.9
40°	418.9	419.1	433.1	452.5	480.9	519.5	565.6	617.7	665.5	704.6	712.1
42.5°	369.3	369.3	378.6	399.5	419.9	456.2	500.3	552.0	608.0	653.1	673.1
45°	305.3	307.4	315.0	327.5	343.6	374.4	409.7	457.7	520.4	573.9	607.3
47.5°	258.5	261.7	266.5	276.7	289.5	310.0	339.2	382.4	433.4	492.2	539.7
50°	234.3	234.8	240.9	246.6	257.7	274.1	299.6	335.6	382.5	439.0	491.8
52.5°	213.5	213.4	217.1	224.3	233.3	246.0	266.7	299.4	341.0	391.7	446.2
55°	182.2	183.4	186.3	191.9	198.8	207.8	224.1	248.7	281.4	324.7	374.2
57.5°	158.5	159.1	161.3	163.7	170.0	176.6	188.8	205.9	233.4	268.9	315.0
60°	142.9	143.2	143.9	147.4	152.4	158.6	166.9	181.3	204.5	236.9	273.4
62.5°	127.8	128.2	129.3	131.9	135.8	140.0	148.7	160.3	179.5	207.2	240.0
65°	106.5	106.7	108.4	109.3	112.4	116.2	122.6	130.4	143.7	166.9	191.7
67.5°	89.0	89.0	89.1	90.4	92.5	95.0	98.8	105.1	115.1	129.3	151.2
70°	77.6	77.6	78.1	78.8	80.0	82.1	84.3	89.0	96.3	107.9	124.7
72.5°	67.0	67.2	67.7	67.8	68.4	70.2	71.8	74.8	80.2	89.0	102.6
75°	49.2	49.9	51.1	52.1	53.3	53.0	54.7	56.6	58.2	63.4	71.2
77.5°	36.6	36.3	36.4	37.2	37.3	37.6	38.8	40.2	41.5	43.9	46.7
80°	27.9	27.9	28.6	28.9	28.6	28.9	30.1	30.8	31.2	32.2	34.8
82.5°	21.1	21.5	21.3	21.5	21.6	21.9	22.9	23.0	23.5	23.9	24.9
85°	11.8	12.1	12.3	11.8	11.8	11.8	12.3	12.5	13.0	12.8	13.3
87.5°	13.2	12.9	12.9	12.8	12.9	12.4	12.2	12.2	11.4	11.2	10.6
90°	45.2	44.6	43.9	43.2	42.6	41.2	39.2	37.2	35.2	33.2	30.5
92.5°	66.9	66.5	66.1	65.7	65.3	64.5	63.3	62.1	60.9	59.7	57.8
95°	119.1	119.1	119.1	119.1	119.1	118.6	117.6	116.6	115.6	114.6	112.3
97.5°	186.7	186.7	186.7	186.7	186.7	186.1	184.9	183.7	182.4	181.2	178.5
100°	233.7	233.7	233.7	233.7	233.7	233.4	232.7	232.0	231.4	230.7	227.7
102.5°	286.8	286.5	286.3	286.0	285.7	285.1	284.2	283.2	282.3	281.4	278.6
105°	367.9	366.9	365.9	364.9	363.9	362.9	361.9	360.9	359.9	358.9	357.5
107.5°	446.9	447.0	447.1	447.1	447.2	446.8	445.8	444.9	443.9	443.0	442.8
110°	503.6	502.6	501.6	500.6	499.6	499.4	500.1	500.8	501.4	502.1	502.4



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	561.5	561.3	561.1	560.9	560.7	560.7	560.8	560.9	561.1	561.2	561.8
115°	651.4	651.7	652.1	652.4	652.7	653.1	653.4	653.7	654.1	654.4	655.1
117.5°	737.0	737.7	738.4	739.0	739.7	740.6	741.8	742.9	744.0	745.2	745.6
120°	802.2	801.5	800.8	800.2	799.5	800.0	801.7	803.3	805.0	806.7	807.7
122.5°	856.5	857.7	858.9	860.1	861.3	862.5	863.6	864.7	865.9	867.0	867.5
125°	949.9	950.6	951.3	951.9	952.6	953.3	954.0	954.6	955.3	956.0	956.3
127.5°	1036.5	1037.0	1037.6	1038.1	1038.6	1039.2	1039.9	1040.6	1041.2	1041.9	1042.5
130°	1093.2	1094.5	1095.9	1097.2	1098.5	1099.5	1100.2	1100.9	1101.6	1102.2	1102.2
132.5°	1153.5	1154.0	1154.6	1155.1	1155.6	1156.2	1156.9	1157.6	1158.3	1158.9	1159.2
135°	1236.4	1237.4	1238.4	1239.4	1240.4	1241.3	1242.0	1242.6	1243.3	1244.0	1244.0
137.5°	1323.6	1323.4	1323.2	1323.0	1322.8	1323.1	1324.0	1324.9	1325.7	1326.6	1326.1
140°	1376.7	1377.0	1377.3	1377.7	1378.0	1378.3	1378.7	1379.0	1379.3	1379.7	1379.7
142.5°	1429.7	1429.8	1429.9	1429.9	1430.0	1430.1	1430.1	1430.2	1430.3	1430.3	1430.6
145°	1501.8	1502.8	1503.8	1504.8	1505.8	1506.5	1506.8	1507.2	1507.5	1507.8	1507.5
147.5°	1574.8	1575.1	1575.5	1575.8	1576.1	1576.4	1576.7	1577.0	1577.2	1577.5	1577.8
150°	1619.4	1619.8	1620.1	1620.4	1620.8	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9
152.5°	1660.4	1661.3	1662.2	1663.0	1663.9	1663.9	1663.1	1662.3	1661.5	1660.7	1660.5
155°	1717.4	1718.8	1720.1	1721.4	1722.8	1722.8	1721.4	1720.1	1718.8	1717.4	1717.8
157.5°	1768.4	1769.5	1770.7	1771.8	1772.9	1773.0	1772.0	1771.0	1770.0	1769.0	1769.1
160°	1797.3	1799.0	1800.7	1802.4	1804.0	1804.4	1803.4	1802.4	1801.4	1800.4	1800.7
162.5°	1827.5	1829.2	1830.9	1832.5	1834.2	1834.1	1832.3	1830.5	1828.7	1826.9	1827.2
165°	1866.7	1868.0	1869.4	1870.7	1872.1	1871.7	1869.7	1867.7	1865.7	1863.7	1864.4
167.5°	1894.7	1896.8	1898.9	1901.0	1903.1	1903.1	1901.1	1899.1	1897.1	1895.1	1895.0
170°	1910.4	1912.8	1915.1	1917.5	1919.8	1920.0	1918.0	1916.0	1913.9	1911.9	1911.6
172.5°	1923.7	1926.0	1928.4	1930.7	1933.1	1933.1	1930.8	1928.6	1926.3	1924.0	1923.9
175°	1937.6	1939.9	1942.3	1944.6	1947.0	1947.0	1944.6	1942.3	1939.9	1937.6	1937.9
177.5°	1944.8	1947.0	1949.1	1951.2	1953.4	1953.5	1951.6	1949.8	1947.9	1946.0	1946.0
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	605.2	602.6	601.2	598.2	594.6	592.7	591.0	588.5	585.3	581.9	579.5
5°	635.9	630.2	623.1	614.6	607.1	599.7	593.3	586.9	579.6	572.0	564.5
7.5°	667.4	656.3	644.2	630.2	616.7	604.3	592.9	582.1	569.8	558.7	548.7
10°	689.4	674.3	657.5	639.7	622.0	606.6	591.4	577.7	562.6	549.1	537.7
12.5°	707.2	689.4	669.2	647.1	625.7	607.1	589.7	571.8	554.6	540.0	524.8
15°	736.7	712.4	685.2	658.6	631.0	605.6	582.2	561.4	541.7	521.1	506.7
17.5°	757.1	728.1	695.0	663.2	630.5	600.6	573.6	548.8	526.1	505.1	487.9
20°	769.2	737.2	700.5	664.3	627.6	595.7	566.6	539.1	515.7	493.0	475.2
22.5°	776.0	740.6	700.5	662.6	624.6	590.0	558.1	529.5	504.0	481.2	461.6
25°	778.2	740.3	699.4	655.8	614.2	577.5	544.3	513.3	484.9	462.2	441.4
27.5°	775.1	730.5	688.6	643.9	600.9	562.3	527.5	494.9	466.5	442.1	420.7
30°	770.6	722.8	677.8	631.4	587.9	550.7	514.0	482.8	453.2	427.9	406.4
32.5°	760.7	713.3	664.9	617.4	573.3	535.0	500.2	468.8	439.8	413.9	391.0
35°	741.2	693.2	640.7	591.9	548.6	508.8	476.2	445.9	418.2	390.5	366.4
37.5°	715.5	666.5	614.2	560.8	517.4	479.9	450.0	421.5	394.5	369.2	342.5
40°	691.3	646.6	592.6	539.6	495.1	458.9	431.2	405.4	378.2	353.1	326.4
42.5°	662.0	623.9	569.3	516.1	472.2	437.3	411.5	386.3	361.5	337.2	309.3
45°	613.0	584.1	533.0	481.9	437.6	403.0	379.4	357.1	335.4	312.2	285.9
47.5°	556.8	537.3	493.2	440.8	399.9	368.8	345.9	327.7	309.3	286.1	263.1
50°	517.8	505.3	462.7	414.9	375.8	347.2	323.8	306.7	291.3	269.1	248.5
52.5°	476.2	469.5	433.5	387.8	350.1	322.0	302.0	286.7	271.1	252.6	233.4
55°	412.7	416.3	385.8	346.2	310.7	287.1	268.9	256.1	242.8	227.2	212.3
57.5°	347.9	360.9	340.4	305.7	272.4	250.5	236.8	226.1	214.9	202.0	189.2
60°	309.1	320.0	308.4	277.8	248.7	228.4	215.6	207.3	196.2	184.4	174.7
62.5°	271.2	282.9	276.0	251.3	224.3	206.8	195.5	187.8	179.5	169.2	159.1
65°	223.7	231.2	227.9	210.9	191.7	176.8	166.4	160.7	153.1	145.6	136.6
67.5°	171.3	185.9	184.0	174.9	158.4	146.7	139.9	134.9	128.0	122.4	116.3
70°	140.8	154.3	154.1	146.7	137.7	126.9	122.1	117.9	111.7	106.3	101.3
72.5°	115.3	127.6	129.5	123.8	117.7	109.4	104.9	102.0	96.0	92.3	88.2
75°	80.7	89.7	92.1	92.1	89.2	85.0	80.9	79.0	74.8	71.5	69.1
77.5°	52.9	58.6	62.3	63.1	63.6	62.1	58.8	57.5	54.2	53.1	50.8
80°	37.4	41.2	45.4	46.9	48.0	47.6	46.2	45.2	42.1	40.9	40.0
82.5°	25.8	27.9	31.4	34.6	34.2	35.5	34.2	33.5	31.1	30.7	29.8
85°	13.5	13.7	14.2	16.3	17.5	18.0	18.2	17.8	17.0	17.0	15.4
87.5°	10.1	9.4	9.2	8.6	8.0	8.1	7.9	7.3	7.5	7.7	7.8
90°	27.8	25.1	22.5	19.3	15.6	11.9	8.2	4.5	8.2	11.9	15.6
92.5°	56.0	54.1	52.2	49.2	44.9	40.7	36.5	32.3	36.5	40.7	44.9
95°	109.9	107.6	105.2	102.5	99.5	96.5	93.5	90.5	93.5	96.5	99.5
97.5°	175.7	173.0	170.3	167.7	165.3	162.8	160.4	158.0	160.4	162.8	165.3
100°	224.7	221.7	218.6	216.5	215.1	213.8	212.4	211.1	212.4	213.8	215.1
102.5°	275.9	273.1	270.4	268.7	268.2	267.7	267.1	266.6	267.1	267.7	268.2
105°	356.2	354.8	353.5	352.7	352.3	352.0	351.7	351.3	351.7	352.0	352.3
107.5°	442.6	442.4	442.2	441.9	441.5	441.1	440.7	440.3	440.7	441.1	441.5
110°	502.8	503.1	503.5	503.3	502.6	501.9	501.3	500.6	501.3	501.9	502.6





TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	562.4	563.0	563.6	563.9	563.7	563.6	563.5	563.3	563.5	563.6	563.7
115°	655.7	656.4	657.1	657.4	657.4	657.4	657.4	657.4	657.4	657.4	657.4
117.5°	746.1	746.6	747.1	747.2	746.9	746.6	746.3	746.1	746.3	746.6	746.9
120°	808.7	809.7	810.7	810.5	809.2	807.9	806.5	805.2	806.5	807.9	809.2
122.5°	867.9	868.4	868.9	868.8	868.3	867.8	867.2	866.7	867.2	867.8	868.3
125°	956.6	957.0	957.3	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5
127.5°	1043.0	1043.5	1044.1	1043.8	1042.8	1041.8	1040.8	1039.8	1040.8	1041.8	1042.8
130°	1102.2	1102.2	1102.2	1101.7	1100.7	1099.7	1098.7	1097.7	1098.7	1099.7	1100.7
132.5°	1159.5	1159.7	1160.0	1159.8	1159.0	1158.3	1157.6	1156.8	1157.6	1158.3	1159.0
135°	1244.0	1244.0	1244.0	1243.0	1241.0	1238.9	1236.9	1234.9	1236.9	1238.9	1241.0
137.5°	1325.5	1325.0	1324.5	1323.7	1322.8	1321.8	1320.9	1320.0	1320.9	1321.8	1322.8
140°	1379.7	1379.7	1379.7	1379.3	1378.7	1378.0	1377.3	1376.7	1377.3	1378.0	1378.7
142.5°	1430.9	1431.1	1431.4	1431.2	1430.5	1429.9	1429.2	1428.5	1429.2	1429.9	1430.5
145°	1507.2	1506.8	1506.5	1505.7	1504.3	1503.0	1501.6	1500.3	1501.6	1503.0	1504.3
147.5°	1578.0	1578.3	1578.6	1577.9	1576.3	1574.7	1573.1	1571.5	1573.1	1574.7	1576.3
150°	1620.9	1620.9	1620.9	1620.3	1618.9	1617.6	1616.2	1614.9	1616.2	1617.6	1618.9
152.5°	1660.2	1659.9	1659.7	1659.1	1658.3	1657.5	1656.7	1655.9	1656.7	1657.5	1658.3
155°	1718.1	1718.4	1718.8	1718.9	1718.9	1718.9	1718.9	1718.9	1718.9	1718.9	1718.9
157.5°	1769.1	1769.2	1769.3	1769.6	1770.2	1770.8	1771.4	1772.0	1771.4	1770.8	1770.2
160°	1801.0	1801.4	1801.7	1802.0	1802.4	1802.7	1803.0	1803.4	1803.0	1802.7	1802.4
162.5°	1827.6	1827.9	1828.2	1828.8	1829.7	1830.6	1831.5	1832.3	1831.5	1830.6	1829.7
165°	1865.0	1865.7	1866.4	1867.2	1868.2	1869.2	1870.2	1871.2	1870.2	1869.2	1868.2
167.5°	1894.9	1894.9	1894.8	1895.5	1896.9	1898.3	1899.7	1901.1	1899.7	1898.3	1896.9
170°	1911.3	1910.9	1910.6	1911.3	1912.9	1914.6	1916.3	1918.0	1916.3	1914.6	1912.9
172.5°	1923.9	1923.8	1923.7	1924.4	1925.8	1927.2	1928.6	1930.0	1928.6	1927.2	1925.8
175°	1938.2	1938.6	1938.9	1939.9	1941.6	1943.3	1944.9	1946.6	1944.9	1943.3	1941.6
177.5°	1946.0	1946.0	1946.0	1946.7	1948.0	1949.4	1950.7	1952.0	1950.7	1949.4	1948.0
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	576.8	574.9	572.5	569.6	566.2	563.2	561.8	563.0	563.6	562.0	561.8
5°	559.2	553.3	548.6	541.5	535.8	531.1	527.8	526.3	526.8	523.0	522.1
7.5°	539.5	532.5	524.7	516.3	508.5	501.5	497.9	495.9	491.8	490.1	487.2
10°	526.8	517.4	509.8	499.8	490.8	482.6	478.5	475.2	471.2	469.3	465.3
12.5°	513.8	502.8	494.4	484.1	474.9	465.0	461.1	455.0	448.7	444.7	439.5
15°	495.3	482.1	471.9	459.6	448.7	437.4	427.2	415.8	411.6	402.6	397.4
17.5°	473.8	460.4	447.8	431.3	414.5	400.3	389.5	378.6	372.1	366.4	363.7
20°	459.6	447.3	429.8	410.6	391.9	376.3	367.5	360.4	353.3	349.3	346.5
22.5°	446.2	430.4	410.1	389.4	370.7	358.5	351.1	343.8	338.0	334.2	330.4
25°	423.6	403.0	381.5	357.8	345.1	334.4	326.4	320.4	316.9	311.9	310.0
27.5°	400.5	375.5	351.8	335.9	322.6	312.8	305.8	301.4	296.9	293.7	291.2
30°	382.7	357.4	336.1	320.9	307.4	299.4	293.7	288.5	284.9	282.3	280.5
32.5°	365.1	339.8	321.9	305.6	294.9	287.1	281.0	277.1	274.3	271.0	269.8
35°	339.6	317.1	301.5	286.8	276.0	268.9	264.1	260.1	257.7	256.8	256.1
37.5°	315.1	296.7	279.9	267.9	258.2	252.6	247.0	245.0	243.4	241.7	242.5
40°	299.6	282.3	267.4	254.7	246.8	240.7	237.4	235.0	233.6	233.6	233.6
42.5°	286.2	269.3	254.7	243.3	235.5	230.3	226.6	224.6	224.1	223.9	225.1
45°	265.3	249.7	235.0	225.5	218.9	213.7	211.6	209.9	209.9	210.9	211.1
47.5°	244.6	230.0	218.2	207.6	201.5	198.3	196.4	195.6	195.7	196.6	197.7
50°	231.9	217.5	205.9	196.4	190.8	187.7	186.0	185.5	186.0	186.0	187.7
52.5°	218.1	205.2	193.8	185.8	179.4	176.5	175.6	174.9	175.2	176.0	176.7
55°	197.9	186.3	175.4	167.8	163.1	161.2	159.0	159.3	158.8	159.3	159.3
57.5°	177.5	167.1	157.0	151.0	146.8	144.1	141.8	142.4	141.7	141.6	141.2
60°	164.5	153.1	145.1	139.6	134.9	132.5	130.4	130.9	130.2	129.7	128.7
62.5°	150.3	140.8	133.1	127.9	124.1	121.4	119.2	118.8	117.1	115.5	113.4
65°	129.7	121.9	115.0	110.1	106.5	104.4	102.7	101.3	97.7	94.0	92.1
67.5°	109.7	104.0	97.6	93.4	90.5	87.8	84.6	82.2	78.9	76.8	75.6
70°	96.8	91.4	85.9	81.9	78.8	76.2	72.7	71.0	68.6	67.7	66.5
72.5°	84.5	79.4	74.4	70.7	67.5	65.4	62.6	61.0	59.9	59.5	58.4
75°	65.8	61.8	58.0	54.7	52.1	50.6	49.5	48.3	47.8	45.7	44.5
77.5°	48.0	45.3	43.0	40.6	38.8	37.8	35.5	34.2	33.4	32.4	32.1
80°	37.4	35.5	33.1	31.7	29.1	28.2	27.2	27.0	26.7	26.5	26.3
82.5°	28.1	26.2	23.9	23.0	22.3	21.7	21.2	20.9	20.7	20.8	20.8
85°	14.2	13.3	13.3	13.0	12.8	12.5	12.3	12.3	12.1	12.3	12.1
87.5°	8.6	9.0	9.6	9.7	10.5	11.0	11.2	11.6	12.2	12.2	12.5
90°	19.3	22.5	25.1	27.8	30.5	33.2	35.2	37.2	39.2	41.2	42.6
92.5°	49.2	52.2	54.1	56.0	57.8	59.7	60.9	62.1	63.3	64.5	65.3
95°	102.5	105.2	107.6	109.9	112.3	114.6	115.6	116.6	117.6	118.6	119.1
97.5°	167.7	170.3	173.0	175.7	178.5	181.2	182.4	183.7	184.9	186.1	186.7
100°	216.5	218.6	221.7	224.7	227.7	230.7	231.4	232.0	232.7	233.4	233.7
102.5°	268.7	270.4	273.1	275.9	278.6	281.4	282.3	283.2	284.2	285.1	285.7
105°	352.7	353.5	354.8	356.2	357.5	358.9	359.9	360.9	361.9	362.9	363.9
107.5°	441.9	442.2	442.4	442.6	442.8	443.0	443.9	444.9	445.8	446.8	447.2
110°	503.3	503.5	503.1	502.8	502.4	502.1	501.4	500.8	500.1	499.4	499.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	563.9	563.6	563.0	562.4	561.8	561.2	561.1	560.9	560.8	560.7	560.7
115°	657.4	657.1	656.4	655.7	655.1	654.4	654.1	653.7	653.4	653.1	652.7
117.5°	747.2	747.1	746.6	746.1	745.6	745.2	744.0	742.9	741.8	740.6	739.7
120°	810.5	810.7	809.7	808.7	807.7	806.7	805.0	803.3	801.7	800.0	799.5
122.5°	868.8	868.9	868.4	867.9	867.5	867.0	865.9	864.7	863.6	862.5	861.3
125°	957.5	957.3	957.0	956.6	956.3	956.0	955.3	954.6	954.0	953.3	952.6
127.5°	1043.8	1044.1	1043.5	1043.0	1042.5	1041.9	1041.2	1040.6	1039.9	1039.2	1038.6
130°	1101.7	1102.2	1102.2	1102.2	1102.2	1102.2	1101.6	1100.9	1100.2	1099.5	1098.5
132.5°	1159.8	1160.0	1159.7	1159.5	1159.2	1158.9	1158.3	1157.6	1156.9	1156.2	1155.6
135°	1243.0	1244.0	1244.0	1244.0	1244.0	1244.0	1243.3	1242.6	1242.0	1241.3	1240.4
137.5°	1323.7	1324.5	1325.0	1325.5	1326.1	1326.6	1325.7	1324.9	1324.0	1323.1	1322.8
140°	1379.3	1379.7	1379.7	1379.7	1379.7	1379.7	1379.3	1379.0	1378.7	1378.3	1378.0
142.5°	1431.2	1431.4	1431.1	1430.9	1430.6	1430.3	1430.3	1430.2	1430.1	1430.1	1430.0
145°	1505.7	1506.5	1506.8	1507.2	1507.5	1507.8	1507.5	1507.2	1506.8	1506.5	1505.8
147.5°	1577.9	1578.6	1578.3	1578.0	1577.8	1577.5	1577.2	1577.0	1576.7	1576.4	1576.1
150°	1620.3	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.8
152.5°	1659.1	1659.7	1659.9	1660.2	1660.5	1660.7	1661.5	1662.3	1663.1	1663.9	1663.9
155°	1718.9	1718.8	1718.4	1718.1	1717.8	1717.4	1718.8	1720.1	1721.4	1722.8	1722.8
157.5°	1769.6	1769.3	1769.2	1769.1	1769.1	1769.0	1770.0	1771.0	1772.0	1773.0	1772.9
160°	1802.0	1801.7	1801.4	1801.0	1800.7	1800.4	1801.4	1802.4	1803.4	1804.4	1804.0
162.5°	1828.8	1828.2	1827.9	1827.6	1827.2	1826.9	1828.7	1830.5	1832.3	1834.1	1834.2
165°	1867.2	1866.4	1865.7	1865.0	1864.4	1863.7	1865.7	1867.7	1869.7	1871.7	1872.1
167.5°	1895.5	1894.8	1894.9	1894.9	1895.0	1895.1	1897.1	1899.1	1901.1	1903.1	1903.1
170°	1911.3	1910.6	1910.9	1911.3	1911.6	1911.9	1913.9	1916.0	1918.0	1920.0	1919.8
172.5°	1924.4	1923.7	1923.8	1923.9	1923.9	1924.0	1926.3	1928.6	1930.8	1933.1	1933.1
175°	1939.9	1938.9	1938.6	1938.2	1937.9	1937.6	1939.9	1942.3	1944.6	1947.0	1947.0
177.5°	1946.7	1946.0	1946.0	1946.0	1946.0	1946.0	1947.9	1949.8	1951.6	1953.5	1953.4
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	560.7	561.1	559.8	559.4	559.8	561.1	560.7	561.8	562.0	563.6	563.0
5°	520.2	519.7	518.5	518.8	518.5	519.7	520.2	522.1	523.0	526.8	526.3
7.5°	485.5	483.7	484.2	482.3	484.2	483.7	485.5	487.2	490.1	491.8	495.9
10°	464.3	461.7	459.6	457.7	459.6	461.7	464.3	465.3	469.3	471.2	475.2
12.5°	435.4	433.1	430.3	430.8	430.3	433.1	435.4	439.5	444.7	448.7	455.0
15°	394.3	390.7	385.1	385.8	385.1	390.7	394.3	397.4	402.6	411.6	415.8
17.5°	359.5	359.5	356.9	357.6	356.9	359.5	359.5	363.7	366.4	372.1	378.6
20°	341.5	339.9	340.1	339.4	340.1	339.9	341.5	346.5	349.3	353.3	360.4
22.5°	329.0	327.0	325.3	323.9	325.3	327.0	329.0	330.4	334.2	338.0	343.8
25°	307.9	306.5	304.4	303.9	304.4	306.5	307.9	310.0	311.9	316.9	320.4
27.5°	289.3	289.1	288.2	287.1	288.2	289.1	289.3	291.2	293.7	296.9	301.4
30°	278.6	278.1	277.6	276.9	277.6	278.1	278.6	280.5	282.3	284.9	288.5
32.5°	268.9	268.6	268.1	268.2	268.1	268.6	268.9	269.8	271.0	274.3	277.1
35°	255.1	254.9	254.4	254.2	254.4	254.9	255.1	256.1	256.8	257.7	260.1
37.5°	242.3	242.9	242.6	242.5	242.6	242.9	242.3	242.5	241.7	243.4	245.0
40°	233.4	233.6	234.1	233.8	234.1	233.6	233.4	233.6	233.6	233.6	235.0
42.5°	226.0	226.0	226.7	225.9	226.7	226.0	226.0	225.1	223.9	224.1	224.6
45°	212.8	214.2	213.9	213.9	213.9	214.2	212.8	211.1	210.9	209.9	209.9
47.5°	198.3	199.6	199.9	199.8	199.9	199.6	198.3	197.7	196.6	195.7	195.6
50°	188.9	188.4	189.1	188.9	189.1	188.4	188.9	187.7	186.0	186.0	185.5
52.5°	177.3	177.4	177.4	177.1	177.4	177.4	177.3	176.7	176.0	175.2	174.9
55°	159.5	159.8	159.3	159.5	159.3	159.8	159.5	159.3	159.3	158.8	159.3
57.5°	140.2	139.1	139.5	139.0	139.5	139.1	140.2	141.2	141.6	141.7	142.4
60°	126.4	124.5	124.0	123.1	124.0	124.5	126.4	128.7	129.7	130.2	130.9
62.5°	110.9	109.5	107.9	108.7	107.9	109.5	110.9	113.4	115.5	117.1	118.8
65°	90.2	89.2	88.5	89.5	88.5	89.2	90.2	92.1	94.0	97.7	101.3
67.5°	74.6	74.1	74.1	73.7	74.1	74.1	74.6	75.6	76.8	78.9	82.2
70°	66.5	65.8	65.8	65.3	65.8	65.8	66.5	66.5	67.7	68.6	71.0
72.5°	58.2	57.5	57.7	57.4	57.7	57.5	58.2	58.4	59.5	59.9	61.0
75°	43.1	41.9	41.9	42.1	41.9	41.9	43.1	44.5	45.7	47.8	48.3
77.5°	32.1	31.9	32.2	31.8	32.2	31.9	32.1	32.1	32.4	33.4	34.2
80°	26.3	26.0	25.8	26.5	25.8	26.0	26.3	26.3	26.5	26.7	27.0
82.5°	20.4	20.4	20.3	21.2	20.3	20.4	20.4	20.8	20.8	20.7	20.9
85°	12.3	11.8	12.3	11.8	12.3	11.8	12.3	12.1	12.3	12.1	12.3
87.5°	13.0	12.9	12.9	13.2	12.9	12.9	13.0	12.5	12.2	12.2	11.6
90°	43.2	43.9	44.6	45.2	44.6	43.9	43.2	42.6	41.2	39.2	37.2
92.5°	65.7	66.1	66.5	66.9	66.5	66.1	65.7	65.3	64.5	63.3	62.1
95°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	118.6	117.6	116.6
97.5°	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.1	184.9	183.7
100°	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.4	232.7	232.0
102.5°	286.0	286.3	286.5	286.8	286.5	286.3	286.0	285.7	285.1	284.2	283.2
105°	364.9	365.9	366.9	367.9	366.9	365.9	364.9	363.9	362.9	361.9	360.9
107.5°	447.1	447.1	447.0	446.9	447.0	447.1	447.1	447.2	446.8	445.8	444.9
110°	500.6	501.6	502.6	503.6	502.6	501.6	500.6	499.6	499.4	500.1	500.8



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	560.9	561.1	561.3	561.5	561.3	561.1	560.9	560.7	560.7	560.8	560.9
115°	652.4	652.1	651.7	651.4	651.7	652.1	652.4	652.7	653.1	653.4	653.7
117.5°	739.0	738.4	737.7	737.0	737.7	738.4	739.0	739.7	740.6	741.8	742.9
120°	800.2	800.8	801.5	802.2	801.5	800.8	800.2	799.5	800.0	801.7	803.3
122.5°	860.1	858.9	857.7	856.5	857.7	858.9	860.1	861.3	862.5	863.6	864.7
125°	951.9	951.3	950.6	949.9	950.6	951.3	951.9	952.6	953.3	954.0	954.6
127.5°	1038.1	1037.6	1037.0	1036.5	1037.0	1037.6	1038.1	1038.6	1039.2	1039.9	1040.6
130°	1097.2	1095.9	1094.5	1093.2	1094.5	1095.9	1097.2	1098.5	1099.5	1100.2	1100.9
132.5°	1155.1	1154.6	1154.0	1153.5	1154.0	1154.6	1155.1	1155.6	1156.2	1156.9	1157.6
135°	1239.4	1238.4	1237.4	1236.4	1237.4	1238.4	1239.4	1240.4	1241.3	1242.0	1242.6
137.5°	1323.0	1323.2	1323.4	1323.6	1323.4	1323.2	1323.0	1322.8	1323.1	1324.0	1324.9
140°	1377.7	1377.3	1377.0	1376.7	1377.0	1377.3	1377.7	1378.0	1378.3	1378.7	1379.0
142.5°	1429.9	1429.9	1429.8	1429.7	1429.8	1429.9	1429.9	1430.0	1430.1	1430.1	1430.2
145°	1504.8	1503.8	1502.8	1501.8	1502.8	1503.8	1504.8	1505.8	1506.5	1506.8	1507.2
147.5°	1575.8	1575.5	1575.1	1574.8	1575.1	1575.5	1575.8	1576.1	1576.4	1576.7	1577.0
150°	1620.4	1620.1	1619.8	1619.4	1619.8	1620.1	1620.4	1620.8	1620.9	1620.9	1620.9
152.5°	1663.0	1662.2	1661.3	1660.4	1661.3	1662.2	1663.0	1663.9	1663.9	1663.1	1662.3
155°	1721.4	1720.1	1718.8	1717.4	1718.8	1720.1	1721.4	1722.8	1722.8	1721.4	1720.1
157.5°	1771.8	1770.7	1769.5	1768.4	1769.5	1770.7	1771.8	1772.9	1773.0	1772.0	1771.0
160°	1802.4	1800.7	1799.0	1797.3	1799.0	1800.7	1802.4	1804.0	1804.4	1803.4	1802.4
162.5°	1832.5	1830.9	1829.2	1827.5	1829.2	1830.9	1832.5	1834.2	1834.1	1832.3	1830.5
165°	1870.7	1869.4	1868.0	1866.7	1868.0	1869.4	1870.7	1872.1	1871.7	1869.7	1867.7
167.5°	1901.0	1898.9	1896.8	1894.7	1896.8	1898.9	1901.0	1903.1	1903.1	1901.1	1899.1
170°	1917.5	1915.1	1912.8	1910.4	1912.8	1915.1	1917.5	1919.8	1920.0	1918.0	1916.0
172.5°	1930.7	1928.4	1926.0	1923.7	1926.0	1928.4	1930.7	1933.1	1933.1	1930.8	1928.6
175°	1944.6	1942.3	1939.9	1937.6	1939.9	1942.3	1944.6	1947.0	1947.0	1944.6	1942.3
177.5°	1951.2	1949.1	1947.0	1944.8	1947.0	1949.1	1951.2	1953.4	1953.5	1951.6	1949.8
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	561.8	563.2	566.2	569.6	572.5	574.9	576.8	579.5	581.9	585.3	588.5
5°	527.8	531.1	535.8	541.5	548.6	553.3	559.2	564.5	572.0	579.6	586.9
7.5°	497.9	501.5	508.5	516.3	524.7	532.5	539.5	548.7	558.7	569.8	582.1
10°	478.5	482.6	490.8	499.8	509.8	517.4	526.8	537.7	549.1	562.6	577.7
12.5°	461.1	465.0	474.9	484.1	494.4	502.8	513.8	524.8	540.0	554.6	571.8
15°	427.2	437.4	448.7	459.6	471.9	482.1	495.3	506.7	521.1	541.7	561.4
17.5°	389.5	400.3	414.5	431.3	447.8	460.4	473.8	487.9	505.1	526.1	548.8
20°	367.5	376.3	391.9	410.6	429.8	447.3	459.6	475.2	493.0	515.7	539.1
22.5°	351.1	358.5	370.7	389.4	410.1	430.4	446.2	461.6	481.2	504.0	529.5
25°	326.4	334.4	345.1	357.8	381.5	403.0	423.6	441.4	462.2	484.9	513.3
27.5°	305.8	312.8	322.6	335.9	351.8	375.5	400.5	420.7	442.1	466.5	494.9
30°	293.7	299.4	307.4	320.9	336.1	357.4	382.7	406.4	427.9	453.2	482.8
32.5°	281.0	287.1	294.9	305.6	321.9	339.8	365.1	391.0	413.9	439.8	468.8
35°	264.1	268.9	276.0	286.8	301.5	317.1	339.6	366.4	390.5	418.2	445.9
37.5°	247.0	252.6	258.2	267.9	279.9	296.7	315.1	342.5	369.2	394.5	421.5
40°	237.4	240.7	246.8	254.7	267.4	282.3	299.6	326.4	353.1	378.2	405.4
42.5°	226.6	230.3	235.5	243.3	254.7	269.3	286.2	309.3	337.2	361.5	386.3
45°	211.6	213.7	218.9	225.5	235.0	249.7	265.3	285.9	312.2	335.4	357.1
47.5°	196.4	198.3	201.5	207.6	218.2	230.0	244.6	263.1	286.1	309.3	327.7
50°	186.0	187.7	190.8	196.4	205.9	217.5	231.9	248.5	269.1	291.3	306.7
52.5°	175.6	176.5	179.4	185.8	193.8	205.2	218.1	233.4	252.6	271.1	286.7
55°	159.0	161.2	163.1	167.8	175.4	186.3	197.9	212.3	227.2	242.8	256.1
57.5°	141.8	144.1	146.8	151.0	157.0	167.1	177.5	189.2	202.0	214.9	226.1
60°	130.4	132.5	134.9	139.6	145.1	153.1	164.5	174.7	184.4	196.2	207.3
62.5°	119.2	121.4	124.1	127.9	133.1	140.8	150.3	159.1	169.2	179.5	187.8
65°	102.7	104.4	106.5	110.1	115.0	121.9	129.7	136.6	145.6	153.1	160.7
67.5°	84.6	87.8	90.5	93.4	97.6	104.0	109.7	116.3	122.4	128.0	134.9
70°	72.7	76.2	78.8	81.9	85.9	91.4	96.8	101.3	106.3	111.7	117.9
72.5°	62.6	65.4	67.5	70.7	74.4	79.4	84.5	88.2	92.3	96.0	102.0
75°	49.5	50.6	52.1	54.7	58.0	61.8	65.8	69.1	71.5	74.8	79.0
77.5°	35.5	37.8	38.8	40.6	43.0	45.3	48.0	50.8	53.1	54.2	57.5
80°	27.2	28.2	29.1	31.7	33.1	35.5	37.4	40.0	40.9	42.1	45.2
82.5°	21.2	21.7	22.3	23.0	23.9	26.2	28.1	29.8	30.7	31.1	33.5
85°	12.3	12.5	12.8	13.0	13.3	13.3	14.2	15.4	17.0	17.0	17.8
87.5°	11.2	11.0	10.5	9.7	9.6	9.0	8.6	7.8	7.7	7.5	7.3
90°	35.2	33.2	30.5	27.8	25.1	22.5	19.3	15.6	11.9	8.2	4.5
92.5°	60.9	59.7	57.8	56.0	54.1	52.2	49.2	44.9	40.7	36.5	32.3
95°	115.6	114.6	112.3	109.9	107.6	105.2	102.5	99.5	96.5	93.5	90.5
97.5°	182.4	181.2	178.5	175.7	173.0	170.3	167.7	165.3	162.8	160.4	158.0
100°	231.4	230.7	227.7	224.7	221.7	218.6	216.5	215.1	213.8	212.4	211.1
102.5°	282.3	281.4	278.6	275.9	273.1	270.4	268.7	268.2	267.7	267.1	266.6
105°	359.9	358.9	357.5	356.2	354.8	353.5	352.7	352.3	352.0	351.7	351.3
107.5°	443.9	443.0	442.8	442.6	442.4	442.2	441.9	441.5	441.1	440.7	440.3
110°	501.4	502.1	502.4	502.8	503.1	503.5	503.3	502.6	501.9	501.3	500.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	561.1	561.2	561.8	562.4	563.0	563.6	563.9	563.7	563.6	563.5	563.3
115°	654.1	654.4	655.1	655.7	656.4	657.1	657.4	657.4	657.4	657.4	657.4
117.5°	744.0	745.2	745.6	746.1	746.6	747.1	747.2	746.9	746.6	746.3	746.1
120°	805.0	806.7	807.7	808.7	809.7	810.7	810.5	809.2	807.9	806.5	805.2
122.5°	865.9	867.0	867.5	867.9	868.4	868.9	868.8	868.3	867.8	867.2	866.7
125°	955.3	956.0	956.3	956.6	957.0	957.3	957.5	957.5	957.5	957.5	957.5
127.5°	1041.2	1041.9	1042.5	1043.0	1043.5	1044.1	1043.8	1042.8	1041.8	1040.8	1039.8
130°	1101.6	1102.2	1102.2	1102.2	1102.2	1102.2	1101.7	1100.7	1099.7	1098.7	1097.7
132.5°	1158.3	1158.9	1159.2	1159.5	1159.7	1160.0	1159.8	1159.0	1158.3	1157.6	1156.8
135°	1243.3	1244.0	1244.0	1244.0	1244.0	1244.0	1243.0	1241.0	1238.9	1236.9	1234.9
137.5°	1325.7	1326.6	1326.1	1325.5	1325.0	1324.5	1323.7	1322.8	1321.8	1320.9	1320.0
140°	1379.3	1379.7	1379.7	1379.7	1379.7	1379.7	1379.3	1378.7	1378.0	1377.3	1376.7
142.5°	1430.3	1430.3	1430.6	1430.9	1431.1	1431.4	1431.2	1430.5	1429.9	1429.2	1428.5
145°	1507.5	1507.8	1507.5	1507.2	1506.8	1506.5	1505.7	1504.3	1503.0	1501.6	1500.3
147.5°	1577.2	1577.5	1577.8	1578.0	1578.3	1578.6	1577.9	1576.3	1574.7	1573.1	1571.5
150°	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.3	1618.9	1617.6	1616.2	1614.9
152.5°	1661.5	1660.7	1660.5	1660.2	1659.9	1659.7	1659.1	1658.3	1657.5	1656.7	1655.9
155°	1718.8	1717.4	1717.8	1718.1	1718.4	1718.8	1718.9	1718.9	1718.9	1718.9	1718.9
157.5°	1770.0	1769.0	1769.1	1769.1	1769.2	1769.3	1769.6	1770.2	1770.8	1771.4	1772.0
160°	1801.4	1800.4	1800.7	1801.0	1801.4	1801.7	1802.0	1802.4	1802.7	1803.0	1803.4
162.5°	1828.7	1826.9	1827.2	1827.6	1827.9	1828.2	1828.8	1829.7	1830.6	1831.5	1832.3
165°	1865.7	1863.7	1864.4	1865.0	1865.7	1866.4	1867.2	1868.2	1869.2	1870.2	1871.2
167.5°	1897.1	1895.1	1895.0	1894.9	1894.9	1894.8	1895.5	1896.9	1898.3	1899.7	1901.1
170°	1913.9	1911.9	1911.6	1911.3	1910.9	1910.6	1911.3	1912.9	1914.6	1916.3	1918.0
172.5°	1926.3	1924.0	1923.9	1923.9	1923.8	1923.7	1924.4	1925.8	1927.2	1928.6	1930.0
175°	1939.9	1937.6	1937.9	1938.2	1938.6	1938.9	1939.9	1941.6	1943.3	1944.9	1946.6
177.5°	1947.9	1946.0	1946.0	1946.0	1946.0	1946.0	1946.7	1948.0	1949.4	1950.7	1952.0
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	591.0	592.7	594.6	598.2	601.2	602.6	605.2	607.1	606.5	609.2	613.7
5°	593.3	599.7	607.1	614.6	623.1	630.2	635.9	641.6	646.1	651.5	659.6
7.5°	592.9	604.3	616.7	630.2	644.2	656.3	667.4	678.8	688.9	699.9	714.4
10°	591.4	606.6	622.0	639.7	657.5	674.3	689.4	703.6	717.1	731.5	749.8
12.5°	589.7	607.1	625.7	647.1	669.2	689.4	707.2	727.7	744.6	763.2	784.2
15°	582.2	605.6	631.0	658.6	685.2	712.4	736.7	761.8	785.3	807.5	834.0
17.5°	573.6	600.6	630.5	663.2	695.0	728.1	757.1	788.7	812.6	842.5	867.1
20°	566.6	595.7	627.6	664.3	700.5	737.2	769.2	801.4	828.3	858.4	889.6
22.5°	558.1	590.0	624.6	662.6	700.5	740.6	776.0	808.0	841.4	875.2	907.4
25°	544.3	577.5	614.2	655.8	699.4	740.3	778.2	817.9	853.9	890.6	919.5
27.5°	527.5	562.3	600.9	643.9	688.6	730.5	775.1	817.5	853.7	889.0	914.2
30°	514.0	550.7	587.9	631.4	677.8	722.8	770.6	813.0	851.1	882.8	897.0
32.5°	500.2	535.0	573.3	617.4	664.9	713.3	760.7	804.1	839.3	858.3	858.7
35°	476.2	508.8	548.6	591.9	640.7	693.2	741.2	783.8	805.4	807.0	783.8
37.5°	450.0	479.9	517.4	560.8	614.2	666.5	715.5	743.9	751.1	727.0	684.2
40°	431.2	458.9	495.1	539.6	592.6	646.6	691.3	712.1	704.6	665.5	617.7
42.5°	411.5	437.3	472.2	516.1	569.3	623.9	662.0	673.1	653.1	608.0	552.0
45°	379.4	403.0	437.6	481.9	533.0	584.1	613.0	607.3	573.9	520.4	457.7
47.5°	345.9	368.8	399.9	440.8	493.2	537.3	556.8	539.7	492.2	433.4	382.4
50°	323.8	347.2	375.8	414.9	462.7	505.3	517.8	491.8	439.0	382.5	335.6
52.5°	302.0	322.0	350.1	387.8	433.5	469.5	476.2	446.2	391.7	341.0	299.4
55°	268.9	287.1	310.7	346.2	385.8	416.3	412.7	374.2	324.7	281.4	248.7
57.5°	236.8	250.5	272.4	305.7	340.4	360.9	347.9	315.0	268.9	233.4	205.9
60°	215.6	228.4	248.7	277.8	308.4	320.0	309.1	273.4	236.9	204.5	181.3
62.5°	195.5	206.8	224.3	251.3	276.0	282.9	271.2	240.0	207.2	179.5	160.3
65°	166.4	176.8	191.7	210.9	227.9	231.2	223.7	191.7	166.9	143.7	130.4
67.5°	139.9	146.7	158.4	174.9	184.0	185.9	171.3	151.2	129.3	115.1	105.1
70°	122.1	126.9	137.7	146.7	154.1	154.3	140.8	124.7	107.9	96.3	89.0
72.5°	104.9	109.4	117.7	123.8	129.5	127.6	115.3	102.6	89.0	80.2	74.8
75°	80.9	85.0	89.2	92.1	92.1	89.7	80.7	71.2	63.4	58.2	56.6
77.5°	58.8	62.1	63.6	63.1	62.3	58.6	52.9	46.7	43.9	41.5	40.2
80°	46.2	47.6	48.0	46.9	45.4	41.2	37.4	34.8	32.2	31.2	30.8
82.5°	34.2	35.5	34.2	34.6	31.4	27.9	25.8	24.9	23.9	23.5	23.0
85°	18.2	18.0	17.5	16.3	14.2	13.7	13.5	13.3	12.8	13.0	12.5
87.5°	7.9	8.1	8.0	8.6	9.2	9.4	10.1	10.6	11.2	11.4	12.2
90°	8.2	11.9	15.6	19.3	22.5	25.1	27.8	30.5	33.2	35.2	37.2
92.5°	36.5	40.7	44.9	49.2	52.2	54.1	56.0	57.8	59.7	60.9	62.1
95°	93.5	96.5	99.5	102.5	105.2	107.6	109.9	112.3	114.6	115.6	116.6
97.5°	160.4	162.8	165.3	167.7	170.3	173.0	175.7	178.5	181.2	182.4	183.7
100°	212.4	213.8	215.1	216.5	218.6	221.7	224.7	227.7	230.7	231.4	232.0
102.5°	267.1	267.7	268.2	268.7	270.4	273.1	275.9	278.6	281.4	282.3	283.2
105°	351.7	352.0	352.3	352.7	353.5	354.8	356.2	357.5	358.9	359.9	360.9
107.5°	440.7	441.1	441.5	441.9	442.2	442.4	442.6	442.8	443.0	443.9	444.9
110°	501.3	501.9	502.6	503.3	503.5	503.1	502.8	502.4	502.1	501.4	500.8





TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	563.5	563.6	563.7	563.9	563.6	563.0	562.4	561.8	561.2	561.1	560.9
115°	657.4	657.4	657.4	657.4	657.1	656.4	655.7	655.1	654.4	654.1	653.7
117.5°	746.3	746.6	746.9	747.2	747.1	746.6	746.1	745.6	745.2	744.0	742.9
120°	806.5	807.9	809.2	810.5	810.7	809.7	808.7	807.7	806.7	805.0	803.3
122.5°	867.2	867.8	868.3	868.8	868.9	868.4	867.9	867.5	867.0	865.9	864.7
125°	957.5	957.5	957.5	957.5	957.3	957.0	956.6	956.3	956.0	955.3	954.6
127.5°	1040.8	1041.8	1042.8	1043.8	1044.1	1043.5	1043.0	1042.5	1041.9	1041.2	1040.6
130°	1098.7	1099.7	1100.7	1101.7	1102.2	1102.2	1102.2	1102.2	1102.2	1101.6	1100.9
132.5°	1157.6	1158.3	1159.0	1159.8	1160.0	1159.7	1159.5	1159.2	1158.9	1158.3	1157.6
135°	1236.9	1238.9	1241.0	1243.0	1244.0	1244.0	1244.0	1244.0	1244.0	1243.3	1242.6
137.5°	1320.9	1321.8	1322.8	1323.7	1324.5	1325.0	1325.5	1326.1	1326.6	1325.7	1324.9
140°	1377.3	1378.0	1378.7	1379.3	1379.7	1379.7	1379.7	1379.7	1379.7	1379.3	1379.0
142.5°	1429.2	1429.9	1430.5	1431.2	1431.4	1431.1	1430.9	1430.6	1430.3	1430.3	1430.2
145°	1501.6	1503.0	1504.3	1505.7	1506.5	1506.8	1507.2	1507.5	1507.8	1507.5	1507.2
147.5°	1573.1	1574.7	1576.3	1577.9	1578.6	1578.3	1578.0	1577.8	1577.5	1577.2	1577.0
150°	1616.2	1617.6	1618.9	1620.3	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9
152.5°	1656.7	1657.5	1658.3	1659.1	1659.7	1659.9	1660.2	1660.5	1660.7	1661.5	1662.3
155°	1718.9	1718.9	1718.9	1718.9	1718.8	1718.4	1718.1	1717.8	1717.4	1718.8	1720.1
157.5°	1771.4	1770.8	1770.2	1769.6	1769.3	1769.2	1769.1	1769.1	1769.0	1770.0	1771.0
160°	1803.0	1802.7	1802.4	1802.0	1801.7	1801.4	1801.0	1800.7	1800.4	1801.4	1802.4
162.5°	1831.5	1830.6	1829.7	1828.8	1828.2	1827.9	1827.6	1827.2	1826.9	1828.7	1830.5
165°	1870.2	1869.2	1868.2	1867.2	1866.4	1865.7	1865.0	1864.4	1863.7	1865.7	1867.7
167.5°	1899.7	1898.3	1896.9	1895.5	1894.8	1894.9	1894.9	1895.0	1895.1	1897.1	1899.1
170°	1916.3	1914.6	1912.9	1911.3	1910.6	1910.9	1911.3	1911.6	1911.9	1913.9	1916.0
172.5°	1928.6	1927.2	1925.8	1924.4	1923.7	1923.8	1923.9	1923.9	1924.0	1926.3	1928.6
175°	1944.9	1943.3	1941.6	1939.9	1938.9	1938.6	1938.2	1937.9	1937.6	1939.9	1942.3
177.5°	1950.7	1949.4	1948.0	1946.7	1946.0	1946.0	1946.0	1946.0	1946.0	1947.9	1949.8
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	616.2	616.9	617.5	619.4	619.6	621.3	619.6
5°	667.2	670.5	675.7	680.9	681.4	684.7	678.8
7.5°	724.3	732.0	736.8	745.2	748.5	750.6	747.2
10°	763.7	770.8	783.4	789.5	795.7	796.6	793.8
12.5°	801.8	813.0	822.9	834.6	834.3	842.6	839.6
15°	852.5	864.1	877.8	890.8	895.5	895.5	899.3
17.5°	888.6	909.9	924.1	934.3	945.5	947.4	946.1
20°	913.1	936.0	951.2	964.4	972.0	974.1	974.1
22.5°	931.2	950.8	965.6	977.5	983.7	986.2	985.5
25°	943.8	960.6	969.6	973.2	974.8	974.4	969.9
27.5°	926.6	925.8	920.2	909.3	901.1	896.1	890.4
30°	893.7	881.3	867.1	851.5	831.4	816.0	811.3
32.5°	844.6	817.0	792.9	766.9	745.3	729.9	723.4
35°	749.8	706.0	670.2	639.0	616.3	602.1	597.3
37.5°	637.2	594.8	550.6	520.3	501.4	487.1	481.8
40°	565.6	519.5	480.9	452.5	433.1	419.1	418.9
42.5°	500.3	456.2	419.9	399.5	378.6	369.3	369.3
45°	409.7	374.4	343.6	327.5	315.0	307.4	305.3
47.5°	339.2	310.0	289.5	276.7	266.5	261.7	258.5
50°	299.6	274.1	257.7	246.6	240.9	234.8	234.3
52.5°	266.7	246.0	233.3	224.3	217.1	213.4	213.5
55°	224.1	207.8	198.8	191.9	186.3	183.4	182.2
57.5°	188.8	176.6	170.0	163.7	161.3	159.1	158.5
60°	166.9	158.6	152.4	147.4	143.9	143.2	142.9
62.5°	148.7	140.0	135.8	131.9	129.3	128.2	127.8
65°	122.6	116.2	112.4	109.3	108.4	106.7	106.5
67.5°	98.8	95.0	92.5	90.4	89.1	89.0	89.0
70°	84.3	82.1	80.0	78.8	78.1	77.6	77.6
72.5°	71.8	70.2	68.4	67.8	67.7	67.2	67.0
75°	54.7	53.0	53.3	52.1	51.1	49.9	49.2
77.5°	38.8	37.6	37.3	37.2	36.4	36.3	36.6
80°	30.1	28.9	28.6	28.9	28.6	27.9	27.9
82.5°	22.9	21.9	21.6	21.5	21.3	21.5	21.1
85°	12.3	11.8	11.8	11.8	12.3	12.1	11.8
87.5°	12.2	12.4	12.9	12.8	12.9	12.9	13.2
90°	39.2	41.2	42.6	43.2	43.9	44.6	45.2
92.5°	63.3	64.5	65.3	65.7	66.1	66.5	66.9
95°	117.6	118.6	119.1	119.1	119.1	119.1	119.1
97.5°	184.9	186.1	186.7	186.7	186.7	186.7	186.7
100°	232.7	233.4	233.7	233.7	233.7	233.7	233.7
102.5°	284.2	285.1	285.7	286.0	286.3	286.5	286.8
105°	361.9	362.9	363.9	364.9	365.9	366.9	367.9
107.5°	445.8	446.8	447.2	447.1	447.1	447.0	446.9
110°	500.1	499.4	499.6	500.6	501.6	502.6	503.6



TEST NUMBER: P333032

CATALOG NUMBER: S124RDIW-S350D1560U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	560.8	560.7	560.7	560.9	561.1	561.3	561.5
115°	653.4	653.1	652.7	652.4	652.1	651.7	651.4
117.5°	741.8	740.6	739.7	739.0	738.4	737.7	737.0
120°	801.7	800.0	799.5	800.2	800.8	801.5	802.2
122.5°	863.6	862.5	861.3	860.1	858.9	857.7	856.5
125°	954.0	953.3	952.6	951.9	951.3	950.6	949.9
127.5°	1039.9	1039.2	1038.6	1038.1	1037.6	1037.0	1036.5
130°	1100.2	1099.5	1098.5	1097.2	1095.9	1094.5	1093.2
132.5°	1156.9	1156.2	1155.6	1155.1	1154.6	1154.0	1153.5
135°	1242.0	1241.3	1240.4	1239.4	1238.4	1237.4	1236.4
137.5°	1324.0	1323.1	1322.8	1323.0	1323.2	1323.4	1323.6
140°	1378.7	1378.3	1378.0	1377.7	1377.3	1377.0	1376.7
142.5°	1430.1	1430.1	1430.0	1429.9	1429.9	1429.8	1429.7
145°	1506.8	1506.5	1505.8	1504.8	1503.8	1502.8	1501.8
147.5°	1576.7	1576.4	1576.1	1575.8	1575.5	1575.1	1574.8
150°	1620.9	1620.9	1620.8	1620.4	1620.1	1619.8	1619.4
152.5°	1663.1	1663.9	1663.9	1663.0	1662.2	1661.3	1660.4
155°	1721.4	1722.8	1722.8	1721.4	1720.1	1718.8	1717.4
157.5°	1772.0	1773.0	1772.9	1771.8	1770.7	1769.5	1768.4
160°	1803.4	1804.4	1804.0	1802.4	1800.7	1799.0	1797.3
162.5°	1832.3	1834.1	1834.2	1832.5	1830.9	1829.2	1827.5
165°	1869.7	1871.7	1872.1	1870.7	1869.4	1868.0	1866.7
167.5°	1901.1	1903.1	1903.1	1901.0	1898.9	1896.8	1894.7
170°	1918.0	1920.0	1919.8	1917.5	1915.1	1912.8	1910.4
172.5°	1930.8	1933.1	1933.1	1930.7	1928.4	1926.0	1923.7
175°	1944.6	1947.0	1947.0	1944.6	1942.3	1939.9	1937.6
177.5°	1951.6	1953.5	1953.4	1951.2	1949.1	1947.0	1944.8
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6

(END OF REPORT)