

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: P331781-840

Luminaire Tested: **S122RDIW-S290D1440U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331781-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D1440U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6962.7 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

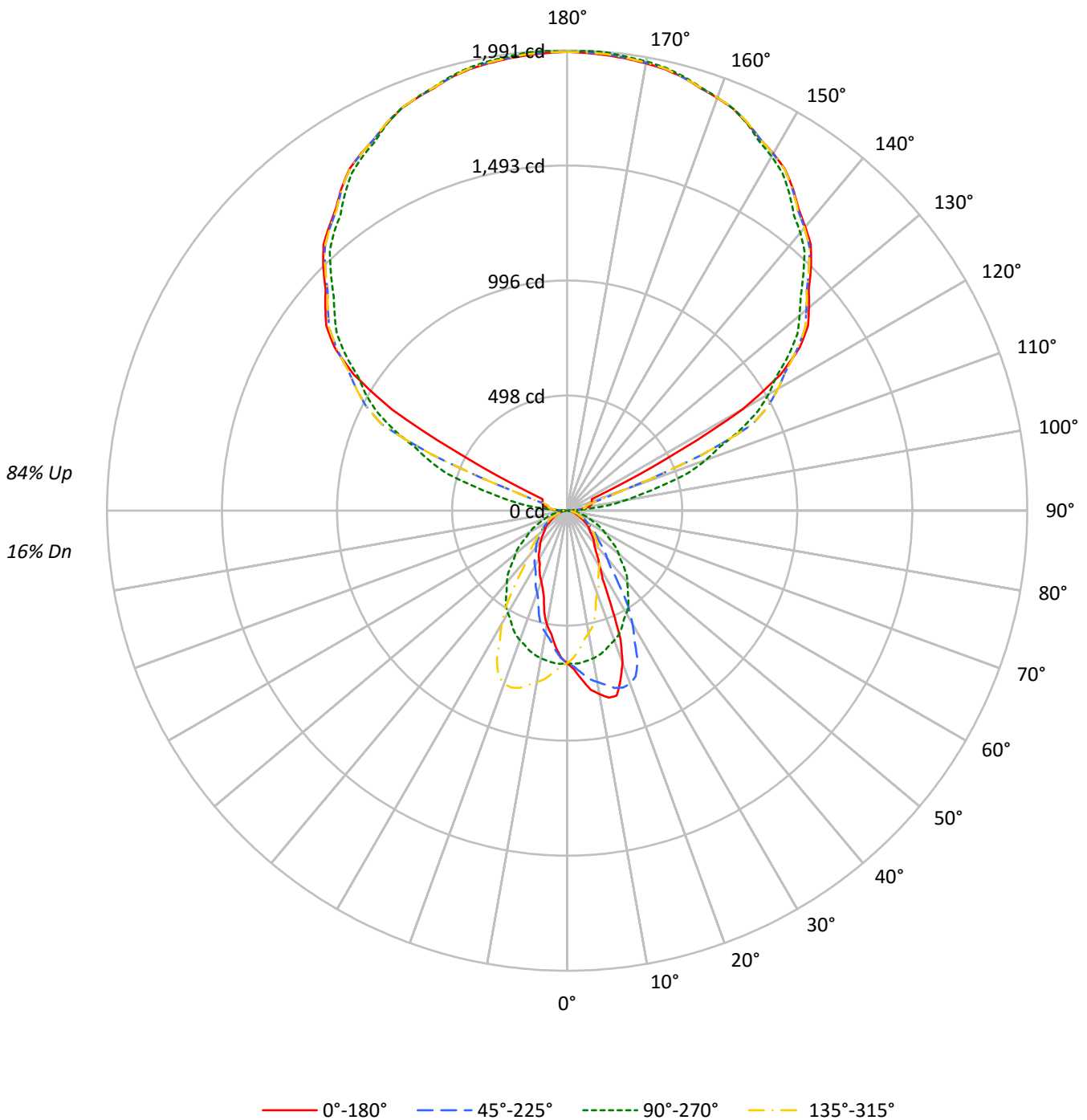
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	25	25	25	16
1	91	86	83	80	79	76	73	71	57	55	53	39	38	37	23	22	22	14
2	83	76	70	65	72	67	62	58	50	47	44	35	33	31	20	19	19	12
3	75	67	60	55	66	59	53	49	44	41	38	31	29	27	18	17	16	11
4	69	59	52	46	60	52	46	41	39	35	32	28	25	23	16	15	14	10
5	63	53	45	40	55	47	40	36	35	31	28	25	22	20	15	14	12	9
6	58	47	40	34	51	42	35	31	32	27	24	22	20	18	14	12	11	8
7	54	42	35	30	47	38	31	27	29	24	21	20	18	16	12	11	10	7
8	50	38	31	26	44	34	28	24	26	22	19	19	16	14	11	10	9	6
9	46	35	28	23	41	31	25	21	24	20	17	17	14	12	11	9	8	6
10	43	32	25	21	38	28	23	19	22	18	15	16	13	11	10	8	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10658	10658	10658	10658
5°	11904	10726	9511	10726
10°	13209	10650	8243	10650
15°	13857	10494	6496	10494
20°	12014	10263	5620	10263
25°	7878	9948	5018	9948
30°	5304	9562	4542	9562
35°	4295	9079	4096	9079
40°	3819	8553	3792	8553
45°	3457	7935	3382	7935
50°	3145	7322	3135	7322
55°	2956	6643	2919	6643
60°	2474	6022	2444	6022
65°	2086	5467	2365	5467
70°	1926	4881	2233	4881
75°	1803	4255	2059	4255
80°	1664	3505	1832	3505
85°	1538	2760	1612	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	0.9
10°-20°	174.4	2.5
20°-30°	224.7	3.2
30°-40°	213.5	3.1
40°-50°	182.9	2.6
50°-60°	139.3	2.0
60°-70°	88.1	1.3
70°-80°	44.0	0.6
80°-90°	16.3	0.2
90°-100°	66.2	1.0
100°-110°	242.8	3.5
110°-120°	649.0	9.3
120°-130°	1071.4	15.4
130°-140°	1139.4	16.4
140°-150°	1059.0	15.2
150°-160°	851.5	12.2
160°-170°	548.7	7.9
170°-180°	188.9	2.7
0°-30°	461.7	6.6
0°-40°	675.2	9.7
0°-60°	997.5	14.3
0°-90°	1145.9	16.5
90°-120°	958.1	13.8
90°-150°	4227.9	60.7
90°-180°	5817.0	83.5
0°-180°	6962.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	660	660	660	660	660	
5°	734	662	587	662	734	72
15°	829	628	389	628	829	224
25°	442	558	282	558	442	210
35°	218	461	208	461	218	139
45°	151	348	148	348	151	117
55°	105	236	104	236	105	92
65°	55	143	62	143	55	56
75°	29	68	33	68	29	31
85°	8	15	9	15	8	10
90°	39	1	39	1	39	17
95°	62	93	62	93	62	58
105°	109	437	109	437	109	114
115°	118	826	118	826	118	295
125°	1228	1168	1228	1168	1228	1063
135°	1492	1445	1492	1445	1492	1150
145°	1702	1676	1702	1676	1702	1064
155°	1847	1846	1847	1846	1847	852
165°	1940	1945	1940	1945	1940	548
175°	1978	1989	1978	1989	1978	188
180°	1985	1985	1985	1985	1985	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	687.0	687.5	688.1	686.8	686.8	685.7	683.3	681.5	676.3	675.6	675.6
5°	734.5	734.1	735.0	732.0	727.9	726.9	722.6	716.8	710.8	704.3	702.9
7.5°	781.7	781.0	779.2	778.7	775.6	768.6	761.6	754.2	744.3	734.6	729.7
10°	805.7	813.2	808.6	800.6	802.1	791.4	785.7	775.8	767.5	753.1	749.9
12.5°	829.1	832.1	830.6	826.1	824.0	816.6	808.8	800.2	785.0	772.0	760.7
15°	829.0	833.3	834.6	833.1	834.2	833.8	829.7	822.6	809.3	795.1	782.6
17.5°	767.8	770.8	778.4	783.5	789.9	803.4	810.2	812.7	810.8	802.6	794.0
20°	699.2	694.2	715.3	726.0	735.2	758.1	777.9	785.5	797.6	797.4	795.1
22.5°	601.9	603.1	623.1	635.9	662.7	685.7	708.1	736.6	760.1	775.7	784.8
25°	442.2	451.0	470.9	488.4	518.2	560.9	599.7	644.6	687.0	720.5	752.5
27.5°	332.1	332.9	348.6	364.8	382.4	417.4	466.3	519.9	580.4	630.4	687.7
30°	284.5	283.1	289.7	299.6	314.8	341.8	378.5	431.2	491.6	566.8	633.8
32.5°	250.6	250.7	255.8	263.1	275.6	293.9	319.0	361.9	418.9	492.9	571.4
35°	217.9	217.7	221.4	226.6	231.9	243.6	260.8	283.3	322.6	391.5	471.8
37.5°	194.4	195.4	197.2	200.6	206.3	212.9	223.2	238.3	266.2	307.1	374.6
40°	181.2	181.7	184.2	186.9	190.4	195.4	203.9	216.1	236.5	269.0	318.4
42.5°	169.2	169.6	171.4	173.9	176.6	181.7	188.7	199.2	215.8	241.2	281.9
45°	151.4	151.4	153.0	154.1	157.1	161.7	167.4	176.2	187.6	206.4	233.5
47.5°	134.8	134.8	135.9	137.8	139.8	143.3	149.0	156.1	164.4	178.9	202.1
50°	125.2	125.5	126.1	127.7	129.0	132.1	136.5	142.7	151.4	162.7	181.9
52.5°	117.5	117.4	118.3	119.0	119.8	122.0	125.3	130.8	138.6	148.3	164.3
55°	105.0	104.1	105.5	106.6	107.3	108.3	110.1	113.5	120.2	128.5	140.4
57.5°	89.5	89.1	90.1	91.1	93.3	95.7	97.4	99.5	102.9	108.9	120.7
60°	76.6	76.6	78.7	79.4	81.9	85.1	88.4	90.2	93.6	97.5	106.2
62.5°	65.2	65.4	66.3	67.1	68.5	72.4	77.0	81.0	84.2	88.0	93.7
65°	54.6	55.0	55.0	55.5	56.5	57.4	59.2	62.4	68.2	73.4	77.8
67.5°	46.4	46.5	46.7	47.1	47.3	48.3	49.1	50.5	51.8	56.8	62.2
70°	40.8	41.5	41.3	41.7	42.0	42.4	43.3	44.0	46.2	47.3	50.5
72.5°	35.6	36.2	36.2	36.5	37.1	37.2	37.9	38.6	39.9	40.8	42.6
75°	28.9	28.7	28.9	29.4	29.6	29.8	29.8	30.7	31.4	32.3	33.5
77.5°	22.3	22.5	22.5	22.5	22.6	23.0	22.9	23.3	24.0	24.5	25.0
80°	17.9	18.1	17.9	18.1	18.4	18.6	18.4	18.6	19.3	19.7	19.7
82.5°	13.8	13.9	14.0	14.0	14.1	14.1	14.5	14.5	15.0	14.9	15.1
85°	8.3	8.1	8.1	8.1	8.3	8.5	8.3	8.3	8.5	8.5	8.5
87.5°	10.7	10.7	10.6	10.5	10.4	10.1	9.8	9.7	9.2	9.1	8.4
90°	38.8	38.2	37.5	36.9	36.3	35.1	33.5	31.9	30.3	28.7	26.2
92.5°	38.8	38.4	38.0	37.7	37.3	36.7	35.9	34.9	34.1	33.3	32.0
95°	61.8	62.1	62.4	62.7	63.0	62.4	60.8	59.2	57.6	56.0	53.8
97.5°	82.4	82.1	81.7	81.3	80.9	80.1	78.8	77.6	76.2	74.9	69.8
100°	96.2	95.6	94.9	94.3	93.7	92.1	89.6	86.9	84.4	81.9	76.4
102.5°	103.1	102.2	101.3	100.5	99.6	97.5	94.1	90.8	87.5	84.1	129.6
105°	109.2	107.9	106.6	105.3	104.0	101.7	98.2	94.6	91.1	87.7	174.7
107.5°	112.3	111.1	109.8	108.5	107.2	108.4	111.9	115.5	119.1	122.7	227.1
110°	113.5	112.2	110.9	109.7	108.4	123.7	155.6	187.5	219.4	251.4	343.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	114.6	113.6	112.6	111.6	110.5	168.2	284.7	401.1	517.6	634.0	656.7
115°	117.8	140.8	163.7	186.7	209.6	295.1	442.8	590.7	738.4	886.2	878.2
117.5°	480.9	556.3	631.9	707.4	782.9	838.6	874.3	910.1	945.8	981.6	976.0
120°	876.2	919.2	962.3	1005.4	1048.4	1068.1	1064.3	1060.5	1056.6	1052.8	1047.0
122.5°	1093.3	1101.7	1110.0	1118.3	1126.7	1129.7	1127.5	1125.2	1122.9	1120.5	1114.3
125°	1228.0	1227.1	1226.1	1225.2	1224.2	1222.5	1220.3	1218.1	1215.9	1213.7	1207.6
127.5°	1313.0	1312.8	1312.6	1312.4	1312.3	1310.5	1307.3	1304.0	1300.8	1297.6	1293.0
130°	1365.8	1366.2	1366.5	1366.9	1367.2	1365.5	1362.1	1358.6	1355.0	1351.5	1348.0
132.5°	1417.5	1418.0	1418.3	1418.6	1418.9	1417.5	1414.5	1411.5	1408.6	1405.5	1402.0
135°	1492.3	1492.9	1493.6	1494.2	1494.8	1493.6	1490.4	1487.1	1484.0	1480.8	1477.9
137.5°	1560.3	1561.5	1562.6	1563.6	1564.7	1563.7	1560.5	1557.4	1554.3	1551.2	1547.9
140°	1602.9	1604.5	1606.1	1607.7	1609.2	1608.6	1605.8	1602.9	1600.0	1597.1	1593.7
142.5°	1644.3	1645.9	1647.4	1649.0	1650.6	1650.1	1647.5	1644.9	1642.2	1639.6	1635.6
145°	1702.0	1703.5	1705.2	1706.8	1708.4	1708.1	1705.8	1703.5	1701.3	1699.1	1693.6
147.5°	1752.8	1754.1	1755.5	1756.9	1758.2	1758.1	1756.4	1754.7	1753.0	1751.4	1746.1
150°	1783.8	1785.4	1787.1	1788.7	1790.2	1790.1	1788.2	1786.2	1784.3	1782.4	1777.3
152.5°	1810.3	1812.4	1814.5	1816.5	1818.7	1818.8	1816.8	1814.9	1813.0	1811.1	1806.2
155°	1847.0	1849.6	1852.2	1854.7	1857.2	1857.5	1855.6	1853.7	1851.8	1849.9	1846.1
157.5°	1880.7	1883.1	1885.6	1888.1	1890.6	1890.8	1888.5	1886.4	1884.3	1882.1	1879.4
160°	1900.2	1902.4	1904.6	1906.9	1909.1	1909.3	1907.3	1905.4	1903.5	1901.6	1899.7
162.5°	1916.3	1919.0	1921.8	1924.5	1927.2	1927.5	1925.4	1923.2	1921.1	1918.8	1917.2
165°	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3	1947.1	1944.9	1942.7	1940.4	1939.4
167.5°	1955.6	1958.5	1961.4	1964.3	1967.1	1967.4	1965.2	1963.0	1960.8	1958.5	1957.6
170°	1964.8	1967.7	1970.5	1973.5	1976.3	1976.6	1974.4	1972.2	1969.9	1967.7	1967.0
172.5°	1971.7	1974.6	1977.4	1980.3	1983.2	1983.5	1981.3	1979.0	1976.8	1974.6	1974.0
175°	1977.7	1981.0	1984.1	1987.3	1990.5	1990.9	1988.7	1986.5	1984.3	1982.1	1981.5
177.5°	1981.5	1983.8	1986.1	1988.3	1990.6	1990.9	1989.1	1987.3	1985.6	1983.8	1983.5
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	676.0	674.5	673.2	669.9	668.2	664.6	664.1	663.9	659.1	654.5	653.2
5°	699.2	695.5	690.0	683.6	676.9	670.0	665.5	661.8	652.6	643.9	638.8
7.5°	722.6	714.7	705.2	693.1	682.9	671.6	663.1	655.5	642.5	630.0	621.6
10°	740.0	727.2	714.6	697.8	684.7	671.9	659.9	649.6	635.0	618.4	606.7
12.5°	750.8	736.7	719.3	703.0	686.0	669.6	653.7	640.5	623.2	606.1	592.3
15°	765.5	750.3	729.2	705.8	684.1	662.7	644.4	627.8	605.4	584.9	567.9
17.5°	777.5	756.6	734.0	706.9	681.7	654.6	631.0	609.9	584.8	560.2	540.2
20°	781.3	760.6	734.5	707.4	677.6	645.7	620.3	597.3	570.5	543.6	520.7
22.5°	778.9	762.9	733.8	701.4	670.9	637.5	608.7	582.1	552.3	524.9	498.4
25°	762.8	757.2	729.7	694.4	659.5	620.8	587.4	558.4	524.4	495.0	466.2
27.5°	725.0	736.9	719.8	682.2	643.4	601.9	564.4	531.3	496.0	463.0	434.2
30°	688.6	715.9	708.6	673.7	630.4	589.6	547.5	512.9	475.3	441.3	412.9
32.5°	638.9	684.0	691.2	662.0	617.1	572.3	528.3	493.8	454.5	418.8	391.0
35°	559.7	627.1	658.1	639.5	594.6	546.1	500.8	460.6	421.1	385.9	358.3
37.5°	465.2	557.1	608.7	610.1	568.8	518.5	469.0	429.1	388.7	354.1	324.3
40°	403.9	503.5	570.8	585.6	550.8	496.4	446.4	405.8	366.4	332.3	298.2
42.5°	348.9	448.1	530.7	556.6	529.0	474.9	424.7	382.3	344.0	311.8	276.9
45°	282.2	368.9	459.9	506.2	490.9	440.9	387.9	347.5	311.5	283.8	250.2
47.5°	238.0	299.1	387.3	449.9	449.7	404.0	351.8	313.3	279.8	253.8	226.7
50°	212.9	266.1	340.6	411.7	417.7	379.4	329.8	291.5	260.3	233.1	211.3
52.5°	190.3	234.2	301.1	369.4	386.4	353.1	305.1	269.7	239.4	214.3	195.7
55°	160.8	194.8	245.7	309.4	335.2	311.7	269.0	236.0	211.5	190.4	174.3
57.5°	136.0	161.5	202.4	253.7	283.6	268.9	233.7	206.8	185.8	166.7	154.1
60°	120.5	141.3	175.9	218.8	251.9	241.6	211.5	186.5	168.6	152.1	140.2
62.5°	105.7	123.7	153.4	188.2	218.4	214.2	189.7	168.6	153.0	137.9	127.8
65°	85.1	98.2	121.4	148.7	173.0	175.0	157.3	143.1	129.2	117.2	108.3
67.5°	67.8	76.3	92.6	115.6	133.8	140.4	129.6	118.7	107.6	98.4	90.6
70°	57.2	64.0	75.9	94.5	111.3	118.2	111.9	103.4	93.8	86.2	79.6
72.5°	46.3	53.0	61.8	75.4	89.8	97.3	95.0	89.0	81.2	74.8	68.6
75°	34.8	37.0	42.9	52.1	63.3	69.8	71.3	68.2	61.9	57.2	53.4
77.5°	25.8	27.1	29.9	34.6	42.0	47.8	50.1	49.7	45.4	42.7	39.2
80°	20.6	21.3	22.7	24.7	30.3	36.1	37.7	37.7	34.6	33.5	30.1
82.5°	15.7	16.2	17.1	18.2	20.7	25.8	27.6	27.9	26.1	24.5	21.8
85°	9.0	8.7	9.2	9.9	10.3	11.7	14.4	14.9	14.4	12.6	11.9
87.5°	7.9	7.5	7.0	6.3	5.7	5.2	5.4	5.7	5.6	5.8	6.1
90°	23.6	21.1	18.5	15.5	12.0	8.5	4.9	1.4	4.9	8.5	12.0
92.5°	30.8	29.5	28.2	27.8	28.1	28.4	28.7	29.0	28.7	28.4	28.1
95°	51.5	49.3	47.1	51.2	61.8	72.3	82.8	93.3	82.8	72.3	61.8
97.5°	64.6	59.5	54.3	66.6	96.2	125.9	155.6	185.3	155.6	125.9	96.2
100°	71.0	65.5	60.2	79.3	123.0	166.7	210.5	254.2	210.5	166.7	123.0
102.5°	174.9	220.4	265.7	293.1	302.3	311.5	320.8	330.0	320.8	311.5	302.3
105°	261.9	349.0	436.2	474.9	465.3	455.8	446.2	436.7	446.2	455.8	465.3
107.5°	331.6	436.2	540.7	589.1	581.3	573.6	565.8	558.2	565.8	573.6	581.3
110°	435.9	528.1	620.3	663.1	656.4	649.6	643.0	636.3	643.0	649.6	656.4



TEST NUMBER: P331781-840

CATALOG NUMBER: S122RDIW-S290D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	679.5	702.4	725.1	733.6	727.6	721.6	715.7	709.8	715.7	721.6	727.6
115°	870.2	862.2	854.2	847.6	842.1	836.7	831.3	825.9	831.3	836.7	842.1
117.5°	970.6	965.0	959.6	953.8	947.8	941.7	935.6	929.6	935.6	941.7	947.8
120°	1041.3	1035.5	1029.8	1024.5	1019.8	1014.9	1010.2	1005.4	1010.2	1014.9	1019.8
122.5°	1108.0	1101.8	1095.6	1089.9	1084.9	1079.8	1074.8	1069.8	1074.8	1079.8	1084.9
125°	1201.5	1195.5	1189.4	1184.3	1180.1	1176.0	1171.8	1167.7	1171.8	1176.0	1180.1
127.5°	1288.5	1283.9	1279.4	1274.9	1270.2	1265.7	1261.0	1256.5	1261.0	1265.7	1270.2
130°	1344.5	1341.0	1337.5	1333.2	1328.1	1322.9	1317.9	1312.7	1317.9	1322.9	1328.1
132.5°	1398.5	1395.0	1391.5	1387.6	1383.2	1378.9	1374.5	1370.2	1374.5	1378.9	1383.2
135°	1475.0	1472.2	1469.3	1465.3	1460.2	1455.1	1450.0	1444.9	1450.0	1455.1	1460.2
137.5°	1544.7	1541.4	1538.1	1534.7	1531.2	1527.6	1524.0	1520.5	1524.0	1527.6	1531.2
140°	1590.1	1586.6	1583.1	1580.0	1577.5	1575.0	1572.4	1569.8	1572.4	1575.0	1577.5
142.5°	1631.6	1627.6	1623.6	1620.4	1618.1	1615.8	1613.5	1611.2	1613.5	1615.8	1618.1
145°	1688.3	1682.8	1677.4	1674.9	1675.2	1675.5	1675.8	1676.2	1675.8	1675.5	1675.2
147.5°	1740.7	1735.3	1729.9	1727.9	1729.1	1730.3	1731.5	1732.7	1731.5	1730.3	1729.1
150°	1772.2	1767.1	1762.0	1760.5	1762.8	1765.0	1767.3	1769.5	1767.3	1765.0	1762.8
152.5°	1801.4	1796.5	1791.7	1790.6	1793.0	1795.5	1798.1	1800.5	1798.1	1795.5	1793.0
155°	1842.3	1838.5	1834.6	1834.1	1836.9	1839.9	1842.7	1845.6	1842.7	1839.9	1836.9
157.5°	1876.7	1874.0	1871.4	1871.3	1873.7	1876.1	1878.6	1881.0	1878.6	1876.1	1873.7
160°	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1899.7	1897.8	1895.9
162.5°	1915.5	1913.9	1912.2	1912.4	1914.3	1916.2	1918.1	1920.0	1918.1	1916.2	1914.3
165°	1938.4	1937.5	1936.6	1937.0	1938.9	1940.9	1942.8	1944.7	1942.8	1940.9	1938.9
167.5°	1956.7	1955.8	1954.9	1955.4	1957.3	1959.2	1961.2	1963.1	1961.2	1959.2	1957.3
170°	1966.4	1965.8	1965.1	1965.8	1967.7	1969.6	1971.6	1973.5	1971.6	1969.6	1967.7
172.5°	1973.3	1972.7	1972.1	1972.7	1974.6	1976.5	1978.4	1980.3	1978.4	1976.5	1974.6
175°	1980.7	1980.1	1979.5	1980.3	1982.6	1984.8	1987.0	1989.2	1987.0	1984.8	1982.6
177.5°	1983.3	1983.0	1982.8	1983.5	1985.3	1987.1	1988.9	1990.6	1988.9	1987.1	1985.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331781-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	650.9	649.5	647.1	643.5	641.3	637.4	634.9	636.3	636.7	636.3	636.0
5°	633.4	628.5	621.9	615.4	609.5	603.1	599.4	597.8	594.6	592.8	591.8
7.5°	612.2	603.9	594.5	583.3	573.8	563.8	558.8	556.2	549.7	546.1	543.0
10°	596.4	583.3	573.9	559.3	550.3	537.2	528.3	528.6	519.6	514.5	510.9
12.5°	579.0	564.6	549.0	535.7	523.3	512.8	502.0	497.7	488.2	483.3	473.4
15°	550.1	533.3	516.8	499.0	486.4	470.0	454.4	435.4	420.0	406.7	403.0
17.5°	518.6	497.8	481.2	460.2	438.6	411.2	393.1	382.0	372.8	365.8	360.5
20°	496.9	475.7	458.1	426.5	397.3	378.7	365.5	356.9	347.3	339.7	335.6
22.5°	474.1	452.1	428.0	392.6	369.9	355.1	343.3	333.5	326.9	321.0	317.2
25°	441.8	417.7	378.0	353.8	335.4	319.7	311.5	305.6	298.7	290.6	287.0
27.5°	407.7	369.4	340.8	322.8	305.3	295.2	287.7	278.8	272.7	269.0	265.2
30°	382.1	343.9	321.6	301.8	289.5	278.2	269.5	264.5	258.5	252.4	249.8
32.5°	353.8	323.2	301.7	285.4	272.8	263.2	256.3	248.1	243.9	240.0	234.8
35°	318.4	295.2	275.7	262.5	250.4	242.7	234.7	229.8	222.1	218.8	216.8
37.5°	288.5	268.4	253.9	239.8	230.4	221.8	216.8	209.1	205.8	201.3	196.9
40°	271.6	251.9	237.9	226.4	215.8	209.4	203.3	197.0	192.0	190.0	184.7
42.5°	254.4	238.3	224.3	211.8	204.7	197.8	190.1	185.5	180.3	176.9	173.7
45°	230.6	216.3	204.4	194.1	186.2	179.2	174.1	166.5	163.6	156.9	154.1
47.5°	209.6	196.4	185.0	175.2	167.6	163.0	155.6	149.7	144.9	140.8	137.2
50°	194.8	183.7	172.7	164.0	157.1	150.5	142.9	140.0	132.6	130.5	128.5
52.5°	181.2	170.7	160.7	152.1	145.2	138.8	132.1	128.2	123.2	121.2	119.7
55°	162.2	152.1	142.5	134.9	128.1	121.4	117.2	112.4	110.1	108.5	106.6
57.5°	143.1	134.0	126.6	119.0	112.0	106.7	102.0	99.1	96.7	94.6	92.4
60°	131.0	122.3	115.6	108.5	101.4	97.0	93.4	89.9	87.2	83.9	83.0
62.5°	118.2	110.5	104.4	97.5	91.3	87.4	83.8	80.6	77.3	72.6	71.3
65°	100.5	94.5	88.1	82.3	76.9	72.9	67.9	64.2	62.8	62.4	62.2
67.5°	84.5	78.9	73.3	67.5	62.5	58.9	56.2	55.7	54.7	54.5	53.8
70°	73.8	68.6	63.1	57.6	52.7	52.1	51.2	50.2	49.1	48.7	48.2
72.5°	64.3	58.9	53.3	49.0	46.9	46.0	45.1	44.1	43.4	42.9	42.7
75°	49.3	44.2	40.6	39.0	37.9	37.2	35.7	35.1	34.6	33.9	33.7
77.5°	35.5	32.6	31.0	30.0	28.8	28.1	27.3	26.6	26.1	26.0	25.5
80°	27.1	25.7	24.5	23.1	22.7	21.8	21.6	20.9	21.1	20.4	20.4
82.5°	21.0	19.3	18.3	17.7	17.2	16.5	16.3	16.0	16.0	15.5	15.5
85°	10.8	10.3	9.9	9.4	9.4	8.7	9.0	8.7	8.7	8.3	8.1
87.5°	6.6	7.0	7.2	7.7	8.2	8.5	8.8	9.0	9.3	9.6	9.6
90°	15.5	18.5	21.1	23.6	26.2	28.7	30.3	31.9	33.5	35.1	36.3
92.5°	27.8	28.2	29.5	30.8	32.0	33.3	34.1	34.9	35.9	36.7	37.3
95°	51.2	47.1	49.3	51.5	53.8	56.0	57.6	59.2	60.8	62.4	63.0
97.5°	66.6	54.3	59.5	64.6	69.8	74.9	76.2	77.6	78.8	80.1	80.9
100°	79.3	60.2	65.5	71.0	76.4	81.9	84.4	86.9	89.6	92.1	93.7
102.5°	293.1	265.7	220.4	174.9	129.6	84.1	87.5	90.8	94.1	97.5	99.6
105°	474.9	436.2	349.0	261.9	174.7	87.7	91.1	94.6	98.2	101.7	104.0
107.5°	589.1	540.7	436.2	331.6	227.1	122.7	119.1	115.5	111.9	108.4	107.2
110°	663.1	620.3	528.1	435.9	343.6	251.4	219.4	187.5	155.6	123.7	108.4



TEST NUMBER: P331781-840

CATALOG NUMBER: S122RDIW-S290D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	733.6	725.1	702.4	679.5	656.7	634.0	517.6	401.1	284.7	168.2	110.5
115°	847.6	854.2	862.2	870.2	878.2	886.2	738.4	590.7	442.8	295.1	209.6
117.5°	953.8	959.6	965.0	970.6	976.0	981.6	945.8	910.1	874.3	838.6	782.9
120°	1024.5	1029.8	1035.5	1041.3	1047.0	1052.8	1056.6	1060.5	1064.3	1068.1	1048.4
122.5°	1089.9	1095.6	1101.8	1108.0	1114.3	1120.5	1122.9	1125.2	1127.5	1129.7	1126.7
125°	1184.3	1189.4	1195.5	1201.5	1207.6	1213.7	1215.9	1218.1	1220.3	1222.5	1224.2
127.5°	1274.9	1279.4	1283.9	1288.5	1293.0	1297.6	1300.8	1304.0	1307.3	1310.5	1312.3
130°	1333.2	1337.5	1341.0	1344.5	1348.0	1351.5	1355.0	1358.6	1362.1	1365.5	1367.2
132.5°	1387.6	1391.5	1395.0	1398.5	1402.0	1405.5	1408.6	1411.5	1414.5	1417.5	1418.9
135°	1465.3	1469.3	1472.2	1475.0	1477.9	1480.8	1484.0	1487.1	1490.4	1493.6	1494.8
137.5°	1534.7	1538.1	1541.4	1544.7	1547.9	1551.2	1554.3	1557.4	1560.5	1563.7	1564.7
140°	1580.0	1583.1	1586.6	1590.1	1593.7	1597.1	1600.0	1602.9	1605.8	1608.6	1609.2
142.5°	1620.4	1623.6	1627.6	1631.6	1635.6	1639.6	1642.2	1644.9	1647.5	1650.1	1650.6
145°	1674.9	1677.4	1682.8	1688.3	1693.6	1699.1	1701.3	1703.5	1705.8	1708.1	1708.4
147.5°	1727.9	1729.9	1735.3	1740.7	1746.1	1751.4	1753.0	1754.7	1756.4	1758.1	1758.2
150°	1760.5	1762.0	1767.1	1772.2	1777.3	1782.4	1784.3	1786.2	1788.2	1790.1	1790.2
152.5°	1790.6	1791.7	1796.5	1801.4	1806.2	1811.1	1813.0	1814.9	1816.8	1818.8	1818.7
155°	1834.1	1834.6	1838.5	1842.3	1846.1	1849.9	1851.8	1853.7	1855.6	1857.5	1857.2
157.5°	1871.3	1871.4	1874.0	1876.7	1879.4	1882.1	1884.3	1886.4	1888.5	1890.8	1890.6
160°	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1903.5	1905.4	1907.3	1909.3	1909.1
162.5°	1912.4	1912.2	1913.9	1915.5	1917.2	1918.8	1921.1	1923.2	1925.4	1927.5	1927.2
165°	1937.0	1936.6	1937.5	1938.4	1939.4	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3
167.5°	1955.4	1954.9	1955.8	1956.7	1957.6	1958.5	1960.8	1963.0	1965.2	1967.4	1967.1
170°	1965.8	1965.1	1965.8	1966.4	1967.0	1967.7	1969.9	1972.2	1974.4	1976.6	1976.3
172.5°	1972.7	1972.1	1972.7	1973.3	1974.0	1974.6	1976.8	1979.0	1981.3	1983.5	1983.2
175°	1980.3	1979.5	1980.1	1980.7	1981.5	1982.1	1984.3	1986.5	1988.7	1990.9	1990.5
177.5°	1983.5	1982.8	1983.0	1983.3	1983.5	1983.8	1985.6	1987.3	1989.1	1990.9	1990.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331781-840

CATALOG NUMBER: S122RDIW-S290D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.0	634.3	633.8	634.1	633.8	634.3	634.0	636.0	636.3	636.7	636.3
5°	590.7	587.9	587.4	586.8	587.4	587.9	590.7	591.8	592.8	594.6	597.8
7.5°	539.1	538.7	537.5	535.8	537.5	538.7	539.1	543.0	546.1	549.7	556.2
10°	505.8	504.6	504.4	502.8	504.4	504.6	505.8	510.9	514.5	519.6	528.6
12.5°	466.9	459.5	458.8	454.7	458.8	459.5	466.9	473.4	483.3	488.2	497.7
15°	397.6	396.2	391.5	388.6	391.5	396.2	397.6	403.0	406.7	420.0	435.4
17.5°	357.9	353.4	351.9	351.3	351.9	353.4	357.9	360.5	365.8	372.8	382.0
20°	332.3	328.3	327.6	327.1	327.6	328.3	332.3	335.6	339.7	347.3	356.9
22.5°	314.8	310.4	308.7	307.3	308.7	310.4	314.8	317.2	321.0	326.9	333.5
25°	284.7	283.1	282.2	281.7	282.2	283.1	284.7	287.0	290.6	298.7	305.6
27.5°	261.2	257.6	256.9	255.7	256.9	257.6	261.2	265.2	269.0	272.7	278.8
30°	247.7	246.6	245.0	243.6	245.0	246.6	247.7	249.8	252.4	258.5	264.5
32.5°	232.0	231.0	229.5	228.9	229.5	231.0	232.0	234.8	240.0	243.9	248.1
35°	214.5	211.3	209.8	207.8	209.8	211.3	214.5	216.8	218.8	222.1	229.8
37.5°	196.0	194.3	192.4	193.1	192.4	194.3	196.0	196.9	201.3	205.8	209.1
40°	181.7	180.6	180.1	179.9	180.1	180.6	181.7	184.7	190.0	192.0	197.0
42.5°	170.3	167.1	165.9	165.9	165.9	167.1	170.3	173.7	176.9	180.3	185.5
45°	153.0	150.1	147.9	148.1	147.9	150.1	153.0	154.1	156.9	163.6	166.5
47.5°	135.3	135.2	133.9	134.3	133.9	135.2	135.3	137.2	140.8	144.9	149.7
50°	126.8	125.5	124.5	124.8	124.5	125.5	126.8	128.5	130.5	132.6	140.0
52.5°	118.8	117.5	116.8	117.9	116.8	117.5	118.8	119.7	121.2	123.2	128.2
55°	105.5	104.1	103.9	103.7	103.9	104.1	105.5	106.6	108.5	110.1	112.4
57.5°	90.7	89.8	88.4	87.9	88.4	89.8	90.7	92.4	94.6	96.7	99.1
60°	80.1	78.3	75.9	75.7	75.9	78.3	80.1	83.0	83.9	87.2	89.9
62.5°	70.3	70.0	69.5	69.5	69.5	70.0	70.3	71.3	72.6	77.3	80.6
65°	61.7	61.5	61.7	61.9	61.7	61.5	61.7	62.2	62.4	62.8	64.2
67.5°	53.7	53.3	52.9	53.1	52.9	53.3	53.7	53.8	54.5	54.7	55.7
70°	47.7	47.5	47.3	47.3	47.3	47.5	47.7	48.2	48.7	49.1	50.2
72.5°	41.8	41.8	41.6	41.4	41.6	41.8	41.8	42.7	42.9	43.4	44.1
75°	33.5	33.0	33.0	33.0	33.0	33.0	33.5	33.7	33.9	34.6	35.1
77.5°	25.5	25.2	25.0	24.8	25.0	25.2	25.5	25.5	26.0	26.1	26.6
80°	20.2	20.0	19.7	19.7	19.7	20.0	20.2	20.4	20.4	21.1	20.9
82.5°	15.5	15.1	15.1	14.9	15.1	15.1	15.5	15.5	15.5	16.0	16.0
85°	8.3	8.5	8.3	8.7	8.3	8.5	8.3	8.1	8.3	8.7	8.7
87.5°	9.8	9.7	10.0	10.0	10.0	9.7	9.8	9.6	9.6	9.3	9.0
90°	36.9	37.5	38.2	38.8	38.2	37.5	36.9	36.3	35.1	33.5	31.9
92.5°	37.7	38.0	38.4	38.8	38.4	38.0	37.7	37.3	36.7	35.9	34.9
95°	62.7	62.4	62.1	61.8	62.1	62.4	62.7	63.0	62.4	60.8	59.2
97.5°	81.3	81.7	82.1	82.4	82.1	81.7	81.3	80.9	80.1	78.8	77.6
100°	94.3	94.9	95.6	96.2	95.6	94.9	94.3	93.7	92.1	89.6	86.9
102.5°	100.5	101.3	102.2	103.1	102.2	101.3	100.5	99.6	97.5	94.1	90.8
105°	105.3	106.6	107.9	109.2	107.9	106.6	105.3	104.0	101.7	98.2	94.6
107.5°	108.5	109.8	111.1	112.3	111.1	109.8	108.5	107.2	108.4	111.9	115.5
110°	109.7	110.9	112.2	113.5	112.2	110.9	109.7	108.4	123.7	155.6	187.5



TEST NUMBER: P331781-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	111.6	112.6	113.6	114.6	113.6	112.6	111.6	110.5	168.2	284.7	401.1
115°	186.7	163.7	140.8	117.8	140.8	163.7	186.7	209.6	295.1	442.8	590.7
117.5°	707.4	631.9	556.3	480.9	556.3	631.9	707.4	782.9	838.6	874.3	910.1
120°	1005.4	962.3	919.2	876.2	919.2	962.3	1005.4	1048.4	1068.1	1064.3	1060.5
122.5°	1118.3	1110.0	1101.7	1093.3	1101.7	1110.0	1118.3	1126.7	1129.7	1127.5	1125.2
125°	1225.2	1226.1	1227.1	1228.0	1227.1	1226.1	1225.2	1224.2	1222.5	1220.3	1218.1
127.5°	1312.4	1312.6	1312.8	1313.0	1312.8	1312.6	1312.4	1312.3	1310.5	1307.3	1304.0
130°	1366.9	1366.5	1366.2	1365.8	1366.2	1366.5	1366.9	1367.2	1365.5	1362.1	1358.6
132.5°	1418.6	1418.3	1418.0	1417.5	1418.0	1418.3	1418.6	1418.9	1417.5	1414.5	1411.5
135°	1494.2	1493.6	1492.9	1492.3	1492.9	1493.6	1494.2	1494.8	1493.6	1490.4	1487.1
137.5°	1563.6	1562.6	1561.5	1560.3	1561.5	1562.6	1563.6	1564.7	1563.7	1560.5	1557.4
140°	1607.7	1606.1	1604.5	1602.9	1604.5	1606.1	1607.7	1609.2	1608.6	1605.8	1602.9
142.5°	1649.0	1647.4	1645.9	1644.3	1645.9	1647.4	1649.0	1650.6	1650.1	1647.5	1644.9
145°	1706.8	1705.2	1703.5	1702.0	1703.5	1705.2	1706.8	1708.4	1708.1	1705.8	1703.5
147.5°	1756.9	1755.5	1754.1	1752.8	1754.1	1755.5	1756.9	1758.2	1758.1	1756.4	1754.7
150°	1788.7	1787.1	1785.4	1783.8	1785.4	1787.1	1788.7	1790.2	1790.1	1788.2	1786.2
152.5°	1816.5	1814.5	1812.4	1810.3	1812.4	1814.5	1816.5	1818.7	1818.8	1816.8	1814.9
155°	1854.7	1852.2	1849.6	1847.0	1849.6	1852.2	1854.7	1857.2	1857.5	1855.6	1853.7
157.5°	1888.1	1885.6	1883.1	1880.7	1883.1	1885.6	1888.1	1890.6	1890.8	1888.5	1886.4
160°	1906.9	1904.6	1902.4	1900.2	1902.4	1904.6	1906.9	1909.1	1909.3	1907.3	1905.4
162.5°	1924.5	1921.8	1919.0	1916.3	1919.0	1921.8	1924.5	1927.2	1927.5	1925.4	1923.2
165°	1947.1	1944.9	1942.7	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3	1947.1	1944.9
167.5°	1964.3	1961.4	1958.5	1955.6	1958.5	1961.4	1964.3	1967.1	1967.4	1965.2	1963.0
170°	1973.5	1970.5	1967.7	1964.8	1967.7	1970.5	1973.5	1976.3	1976.6	1974.4	1972.2
172.5°	1980.3	1977.4	1974.6	1971.7	1974.6	1977.4	1980.3	1983.2	1983.5	1981.3	1979.0
175°	1987.3	1984.1	1981.0	1977.7	1981.0	1984.1	1987.3	1990.5	1990.9	1988.7	1986.5
177.5°	1988.3	1986.1	1983.8	1981.5	1983.8	1986.1	1988.3	1990.6	1990.9	1989.1	1987.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331781-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.9	637.4	641.3	643.5	647.1	649.5	650.9	653.2	654.5	659.1	663.9
5°	599.4	603.1	609.5	615.4	621.9	628.5	633.4	638.8	643.9	652.6	661.8
7.5°	558.8	563.8	573.8	583.3	594.5	603.9	612.2	621.6	630.0	642.5	655.5
10°	528.3	537.2	550.3	559.3	573.9	583.3	596.4	606.7	618.4	635.0	649.6
12.5°	502.0	512.8	523.3	535.7	549.0	564.6	579.0	592.3	606.1	623.2	640.5
15°	454.4	470.0	486.4	499.0	516.8	533.3	550.1	567.9	584.9	605.4	627.8
17.5°	393.1	411.2	438.6	460.2	481.2	497.8	518.6	540.2	560.2	584.8	609.9
20°	365.5	378.7	397.3	426.5	458.1	475.7	496.9	520.7	543.6	570.5	597.3
22.5°	343.3	355.1	369.9	392.6	428.0	452.1	474.1	498.4	524.9	552.3	582.1
25°	311.5	319.7	335.4	353.8	378.0	417.7	441.8	466.2	495.0	524.4	558.4
27.5°	287.7	295.2	305.3	322.8	340.8	369.4	407.7	434.2	463.0	496.0	531.3
30°	269.5	278.2	289.5	301.8	321.6	343.9	382.1	412.9	441.3	475.3	512.9
32.5°	256.3	263.2	272.8	285.4	301.7	323.2	353.8	391.0	418.8	454.5	493.8
35°	234.7	242.7	250.4	262.5	275.7	295.2	318.4	358.3	385.9	421.1	460.6
37.5°	216.8	221.8	230.4	239.8	253.9	268.4	288.5	324.3	354.1	388.7	429.1
40°	203.3	209.4	215.8	226.4	237.9	251.9	271.6	298.2	332.3	366.4	405.8
42.5°	190.1	197.8	204.7	211.8	224.3	238.3	254.4	276.9	311.8	344.0	382.3
45°	174.1	179.2	186.2	194.1	204.4	216.3	230.6	250.2	283.8	311.5	347.5
47.5°	155.6	163.0	167.6	175.2	185.0	196.4	209.6	226.7	253.8	279.8	313.3
50°	142.9	150.5	157.1	164.0	172.7	183.7	194.8	211.3	233.1	260.3	291.5
52.5°	132.1	138.8	145.2	152.1	160.7	170.7	181.2	195.7	214.3	239.4	269.7
55°	117.2	121.4	128.1	134.9	142.5	152.1	162.2	174.3	190.4	211.5	236.0
57.5°	102.0	106.7	112.0	119.0	126.6	134.0	143.1	154.1	166.7	185.8	206.8
60°	93.4	97.0	101.4	108.5	115.6	122.3	131.0	140.2	152.1	168.6	186.5
62.5°	83.8	87.4	91.3	97.5	104.4	110.5	118.2	127.8	137.9	153.0	168.6
65°	67.9	72.9	76.9	82.3	88.1	94.5	100.5	108.3	117.2	129.2	143.1
67.5°	56.2	58.9	62.5	67.5	73.3	78.9	84.5	90.6	98.4	107.6	118.7
70°	51.2	52.1	52.7	57.6	63.1	68.6	73.8	79.6	86.2	93.8	103.4
72.5°	45.1	46.0	46.9	49.0	53.3	58.9	64.3	68.6	74.8	81.2	89.0
75°	35.7	37.2	37.9	39.0	40.6	44.2	49.3	53.4	57.2	61.9	68.2
77.5°	27.3	28.1	28.8	30.0	31.0	32.6	35.5	39.2	42.7	45.4	49.7
80°	21.6	21.8	22.7	23.1	24.5	25.7	27.1	30.1	33.5	34.6	37.7
82.5°	16.3	16.5	17.2	17.7	18.3	19.3	21.0	21.8	24.5	26.1	27.9
85°	9.0	8.7	9.4	9.4	9.9	10.3	10.8	11.9	12.6	14.4	14.9
87.5°	8.8	8.5	8.2	7.7	7.2	7.0	6.6	6.1	5.8	5.6	5.7
90°	30.3	28.7	26.2	23.6	21.1	18.5	15.5	12.0	8.5	4.9	1.4
92.5°	34.1	33.3	32.0	30.8	29.5	28.2	27.8	28.1	28.4	28.7	29.0
95°	57.6	56.0	53.8	51.5	49.3	47.1	51.2	61.8	72.3	82.8	93.3
97.5°	76.2	74.9	69.8	64.6	59.5	54.3	66.6	96.2	125.9	155.6	185.3
100°	84.4	81.9	76.4	71.0	65.5	60.2	79.3	123.0	166.7	210.5	254.2
102.5°	87.5	84.1	129.6	174.9	220.4	265.7	293.1	302.3	311.5	320.8	330.0
105°	91.1	87.7	174.7	261.9	349.0	436.2	474.9	465.3	455.8	446.2	436.7
107.5°	119.1	122.7	227.1	331.6	436.2	540.7	589.1	581.3	573.6	565.8	558.2
110°	219.4	251.4	343.6	435.9	528.1	620.3	663.1	656.4	649.6	643.0	636.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	517.6	634.0	656.7	679.5	702.4	725.1	733.6	727.6	721.6	715.7	709.8
115°	738.4	886.2	878.2	870.2	862.2	854.2	847.6	842.1	836.7	831.3	825.9
117.5°	945.8	981.6	976.0	970.6	965.0	959.6	953.8	947.8	941.7	935.6	929.6
120°	1056.6	1052.8	1047.0	1041.3	1035.5	1029.8	1024.5	1019.8	1014.9	1010.2	1005.4
122.5°	1122.9	1120.5	1114.3	1108.0	1101.8	1095.6	1089.9	1084.9	1079.8	1074.8	1069.8
125°	1215.9	1213.7	1207.6	1201.5	1195.5	1189.4	1184.3	1180.1	1176.0	1171.8	1167.7
127.5°	1300.8	1297.6	1293.0	1288.5	1283.9	1279.4	1274.9	1270.2	1265.7	1261.0	1256.5
130°	1355.0	1351.5	1348.0	1344.5	1341.0	1337.5	1333.2	1328.1	1322.9	1317.9	1312.7
132.5°	1408.6	1405.5	1402.0	1398.5	1395.0	1391.5	1387.6	1383.2	1378.9	1374.5	1370.2
135°	1484.0	1480.8	1477.9	1475.0	1472.2	1469.3	1465.3	1460.2	1455.1	1450.0	1444.9
137.5°	1554.3	1551.2	1547.9	1544.7	1541.4	1538.1	1534.7	1531.2	1527.6	1524.0	1520.5
140°	1600.0	1597.1	1593.7	1590.1	1586.6	1583.1	1580.0	1577.5	1575.0	1572.4	1569.8
142.5°	1642.2	1639.6	1635.6	1631.6	1627.6	1623.6	1620.4	1618.1	1615.8	1613.5	1611.2
145°	1701.3	1699.1	1693.6	1688.3	1682.8	1677.4	1674.9	1675.2	1675.5	1675.8	1676.2
147.5°	1753.0	1751.4	1746.1	1740.7	1735.3	1729.9	1727.9	1729.1	1730.3	1731.5	1732.7
150°	1784.3	1782.4	1777.3	1772.2	1767.1	1762.0	1760.5	1762.8	1765.0	1767.3	1769.5
152.5°	1813.0	1811.1	1806.2	1801.4	1796.5	1791.7	1790.6	1793.0	1795.5	1798.1	1800.5
155°	1851.8	1849.9	1846.1	1842.3	1838.5	1834.6	1834.1	1836.9	1839.9	1842.7	1845.6
157.5°	1884.3	1882.1	1879.4	1876.7	1874.0	1871.4	1871.3	1873.7	1876.1	1878.6	1881.0
160°	1903.5	1901.6	1899.7	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6
162.5°	1921.1	1918.8	1917.2	1915.5	1913.9	1912.2	1912.4	1914.3	1916.2	1918.1	1920.0
165°	1942.7	1940.4	1939.4	1938.4	1937.5	1936.6	1937.0	1938.9	1940.9	1942.8	1944.7
167.5°	1960.8	1958.5	1957.6	1956.7	1955.8	1954.9	1955.4	1957.3	1959.2	1961.2	1963.1
170°	1969.9	1967.7	1967.0	1966.4	1965.8	1965.1	1965.8	1967.7	1969.6	1971.6	1973.5
172.5°	1976.8	1974.6	1974.0	1973.3	1972.7	1972.1	1972.7	1974.6	1976.5	1978.4	1980.3
175°	1984.3	1982.1	1981.5	1980.7	1980.1	1979.5	1980.3	1982.6	1984.8	1987.0	1989.2
177.5°	1985.6	1983.8	1983.5	1983.3	1983.0	1982.8	1983.5	1985.3	1987.1	1988.9	1990.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331781-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	664.1	664.6	668.2	669.9	673.2	674.5	676.0	675.6	675.6	676.3	681.5
5°	665.5	670.0	676.9	683.6	690.0	695.5	699.2	702.9	704.3	710.8	716.8
7.5°	663.1	671.6	682.9	693.1	705.2	714.7	722.6	729.7	734.6	744.3	754.2
10°	659.9	671.9	684.7	697.8	714.6	727.2	740.0	749.9	753.1	767.5	775.8
12.5°	653.7	669.6	686.0	703.0	719.3	736.7	750.8	760.7	772.0	785.0	800.2
15°	644.4	662.7	684.1	705.8	729.2	750.3	765.5	782.6	795.1	809.3	822.6
17.5°	631.0	654.6	681.7	706.9	734.0	756.6	777.5	794.0	802.6	810.8	812.7
20°	620.3	645.7	677.6	707.4	734.5	760.6	781.3	795.1	797.4	797.6	785.5
22.5°	608.7	637.5	670.9	701.4	733.8	762.9	778.9	784.8	775.7	760.1	736.6
25°	587.4	620.8	659.5	694.4	729.7	757.2	762.8	752.5	720.5	687.0	644.6
27.5°	564.4	601.9	643.4	682.2	719.8	736.9	725.0	687.7	630.4	580.4	519.9
30°	547.5	589.6	630.4	673.7	708.6	715.9	688.6	633.8	566.8	491.6	431.2
32.5°	528.3	572.3	617.1	662.0	691.2	684.0	638.9	571.4	492.9	418.9	361.9
35°	500.8	546.1	594.6	639.5	658.1	627.1	559.7	471.8	391.5	322.6	283.3
37.5°	469.0	518.5	568.8	610.1	608.7	557.1	465.2	374.6	307.1	266.2	238.3
40°	446.4	496.4	550.8	585.6	570.8	503.5	403.9	318.4	269.0	236.5	216.1
42.5°	424.7	474.9	529.0	556.6	530.7	448.1	348.9	281.9	241.2	215.8	199.2
45°	387.9	440.9	490.9	506.2	459.9	368.9	282.2	233.5	206.4	187.6	176.2
47.5°	351.8	404.0	449.7	449.9	387.3	299.1	238.0	202.1	178.9	164.4	156.1
50°	329.8	379.4	417.7	411.7	340.6	266.1	212.9	181.9	162.7	151.4	142.7
52.5°	305.1	353.1	386.4	369.4	301.1	234.2	190.3	164.3	148.3	138.6	130.8
55°	269.0	311.7	335.2	309.4	245.7	194.8	160.8	140.4	128.5	120.2	113.5
57.5°	233.7	268.9	283.6	253.7	202.4	161.5	136.0	120.7	108.9	102.9	99.5
60°	211.5	241.6	251.9	218.8	175.9	141.3	120.5	106.2	97.5	93.6	90.2
62.5°	189.7	214.2	218.4	188.2	153.4	123.7	105.7	93.7	88.0	84.2	81.0
65°	157.3	175.0	173.0	148.7	121.4	98.2	85.1	77.8	73.4	68.2	62.4
67.5°	129.6	140.4	133.8	115.6	92.6	76.3	67.8	62.2	56.8	51.8	50.5
70°	111.9	118.2	111.3	94.5	75.9	64.0	57.2	50.5	47.3	46.2	44.0
72.5°	95.0	97.3	89.8	75.4	61.8	53.0	46.3	42.6	40.8	39.9	38.6
75°	71.3	69.8	63.3	52.1	42.9	37.0	34.8	33.5	32.3	31.4	30.7
77.5°	50.1	47.8	42.0	34.6	29.9	27.1	25.8	25.0	24.5	24.0	23.3
80°	37.7	36.1	30.3	24.7	22.7	21.3	20.6	19.7	19.7	19.3	18.6
82.5°	27.6	25.8	20.7	18.2	17.1	16.2	15.7	15.1	14.9	15.0	14.5
85°	14.4	11.7	10.3	9.9	9.2	8.7	9.0	8.5	8.5	8.5	8.3
87.5°	5.4	5.2	5.7	6.3	7.0	7.5	7.9	8.4	9.1	9.2	9.7
90°	4.9	8.5	12.0	15.5	18.5	21.1	23.6	26.2	28.7	30.3	31.9
92.5°	28.7	28.4	28.1	27.8	28.2	29.5	30.8	32.0	33.3	34.1	34.9
95°	82.8	72.3	61.8	51.2	47.1	49.3	51.5	53.8	56.0	57.6	59.2
97.5°	155.6	125.9	96.2	66.6	54.3	59.5	64.6	69.8	74.9	76.2	77.6
100°	210.5	166.7	123.0	79.3	60.2	65.5	71.0	76.4	81.9	84.4	86.9
102.5°	320.8	311.5	302.3	293.1	265.7	220.4	174.9	129.6	84.1	87.5	90.8
105°	446.2	455.8	465.3	474.9	436.2	349.0	261.9	174.7	87.7	91.1	94.6
107.5°	565.8	573.6	581.3	589.1	540.7	436.2	331.6	227.1	122.7	119.1	115.5
110°	643.0	649.6	656.4	663.1	620.3	528.1	435.9	343.6	251.4	219.4	187.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	715.7	721.6	727.6	733.6	725.1	702.4	679.5	656.7	634.0	517.6	401.1
115°	831.3	836.7	842.1	847.6	854.2	862.2	870.2	878.2	886.2	738.4	590.7
117.5°	935.6	941.7	947.8	953.8	959.6	965.0	970.6	976.0	981.6	945.8	910.1
120°	1010.2	1014.9	1019.8	1024.5	1029.8	1035.5	1041.3	1047.0	1052.8	1056.6	1060.5
122.5°	1074.8	1079.8	1084.9	1089.9	1095.6	1101.8	1108.0	1114.3	1120.5	1122.9	1125.2
125°	1171.8	1176.0	1180.1	1184.3	1189.4	1195.5	1201.5	1207.6	1213.7	1215.9	1218.1
127.5°	1261.0	1265.7	1270.2	1274.9	1279.4	1283.9	1288.5	1293.0	1297.6	1300.8	1304.0
130°	1317.9	1322.9	1328.1	1333.2	1337.5	1341.0	1344.5	1348.0	1351.5	1355.0	1358.6
132.5°	1374.5	1378.9	1383.2	1387.6	1391.5	1395.0	1398.5	1402.0	1405.5	1408.6	1411.5
135°	1450.0	1455.1	1460.2	1465.3	1469.3	1472.2	1475.0	1477.9	1480.8	1484.0	1487.1
137.5°	1524.0	1527.6	1531.2	1534.7	1538.1	1541.4	1544.7	1547.9	1551.2	1554.3	1557.4
140°	1572.4	1575.0	1577.5	1580.0	1583.1	1586.6	1590.1	1593.7	1597.1	1600.0	1602.9
142.5°	1613.5	1615.8	1618.1	1620.4	1623.6	1627.6	1631.6	1635.6	1639.6	1642.2	1644.9
145°	1675.8	1675.5	1675.2	1674.9	1677.4	1682.8	1688.3	1693.6	1699.1	1701.3	1703.5
147.5°	1731.5	1730.3	1729.1	1727.9	1729.9	1735.3	1740.7	1746.1	1751.4	1753.0	1754.7
150°	1767.3	1765.0	1762.8	1760.5	1762.0	1767.1	1772.2	1777.3	1782.4	1784.3	1786.2
152.5°	1798.1	1795.5	1793.0	1790.6	1791.7	1796.5	1801.4	1806.2	1811.1	1813.0	1814.9
155°	1842.7	1839.9	1836.9	1834.1	1834.6	1838.5	1842.3	1846.1	1849.9	1851.8	1853.7
157.5°	1878.6	1876.1	1873.7	1871.3	1871.4	1874.0	1876.7	1879.4	1882.1	1884.3	1886.4
160°	1899.7	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1903.5	1905.4
162.5°	1918.1	1916.2	1914.3	1912.4	1912.2	1913.9	1915.5	1917.2	1918.8	1921.1	1923.2
165°	1942.8	1940.9	1938.9	1937.0	1936.6	1937.5	1938.4	1939.4	1940.4	1942.7	1944.9
167.5°	1961.2	1959.2	1957.3	1955.4	1954.9	1955.8	1956.7	1957.6	1958.5	1960.8	1963.0
170°	1971.6	1969.6	1967.7	1965.8	1965.1	1965.8	1966.4	1967.0	1967.7	1969.9	1972.2
172.5°	1978.4	1976.5	1974.6	1972.7	1972.1	1972.7	1973.3	1974.0	1974.6	1976.8	1979.0
175°	1987.0	1984.8	1982.6	1980.3	1979.5	1980.1	1980.7	1981.5	1982.1	1984.3	1986.5
177.5°	1988.9	1987.1	1985.3	1983.5	1982.8	1983.0	1983.3	1983.5	1983.8	1985.6	1987.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	683.3	685.7	686.8	686.8	688.1	687.5	687.0
5°	722.6	726.9	727.9	732.0	735.0	734.1	734.5
7.5°	761.6	768.6	775.6	778.7	779.2	781.0	781.7
10°	785.7	791.4	802.1	800.6	808.6	813.2	805.7
12.5°	808.8	816.6	824.0	826.1	830.6	832.1	829.1
15°	829.7	833.8	834.2	833.1	834.6	833.3	829.0
17.5°	810.2	803.4	789.9	783.5	778.4	770.8	767.8
20°	777.9	758.1	735.2	726.0	715.3	694.2	699.2
22.5°	708.1	685.7	662.7	635.9	623.1	603.1	601.9
25°	599.7	560.9	518.2	488.4	470.9	451.0	442.2
27.5°	466.3	417.4	382.4	364.8	348.6	332.9	332.1
30°	378.5	341.8	314.8	299.6	289.7	283.1	284.5
32.5°	319.0	293.9	275.6	263.1	255.8	250.7	250.6
35°	260.8	243.6	231.9	226.6	221.4	217.7	217.9
37.5°	223.2	212.9	206.3	200.6	197.2	195.4	194.4
40°	203.9	195.4	190.4	186.9	184.2	181.7	181.2
42.5°	188.7	181.7	176.6	173.9	171.4	169.6	169.2
45°	167.4	161.7	157.1	154.1	153.0	151.4	151.4
47.5°	149.0	143.3	139.8	137.8	135.9	134.8	134.8
50°	136.5	132.1	129.0	127.7	126.1	125.5	125.2
52.5°	125.3	122.0	119.8	119.0	118.3	117.4	117.5
55°	110.1	108.3	107.3	106.6	105.5	104.1	105.0
57.5°	97.4	95.7	93.3	91.1	90.1	89.1	89.5
60°	88.4	85.1	81.9	79.4	78.7	76.6	76.6
62.5°	77.0	72.4	68.5	67.1	66.3	65.4	65.2
65°	59.2	57.4	56.5	55.5	55.0	55.0	54.6
67.5°	49.1	48.3	47.3	47.1	46.7	46.5	46.4
70°	43.3	42.4	42.0	41.7	41.3	41.5	40.8
72.5°	37.9	37.2	37.1	36.5	36.2	36.2	35.6
75°	29.8	29.8	29.6	29.4	28.9	28.7	28.9
77.5°	22.9	23.0	22.6	22.5	22.5	22.5	22.3
80°	18.4	18.6	18.4	18.1	17.9	18.1	17.9
82.5°	14.5	14.1	14.1	14.0	14.0	13.9	13.8
85°	8.3	8.5	8.3	8.1	8.1	8.1	8.3
87.5°	9.8	10.1	10.4	10.5	10.6	10.7	10.7
90°	33.5	35.1	36.3	36.9	37.5	38.2	38.8
92.5°	35.9	36.7	37.3	37.7	38.0	38.4	38.8
95°	60.8	62.4	63.0	62.7	62.4	62.1	61.8
97.5°	78.8	80.1	80.9	81.3	81.7	82.1	82.4
100°	89.6	92.1	93.7	94.3	94.9	95.6	96.2
102.5°	94.1	97.5	99.6	100.5	101.3	102.2	103.1
105°	98.2	101.7	104.0	105.3	106.6	107.9	109.2
107.5°	111.9	108.4	107.2	108.5	109.8	111.1	112.3
110°	155.6	123.7	108.4	109.7	110.9	112.2	113.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	284.7	168.2	110.5	111.6	112.6	113.6	114.6
115°	442.8	295.1	209.6	186.7	163.7	140.8	117.8
117.5°	874.3	838.6	782.9	707.4	631.9	556.3	480.9
120°	1064.3	1068.1	1048.4	1005.4	962.3	919.2	876.2
122.5°	1127.5	1129.7	1126.7	1118.3	1110.0	1101.7	1093.3
125°	1220.3	1222.5	1224.2	1225.2	1226.1	1227.1	1228.0
127.5°	1307.3	1310.5	1312.3	1312.4	1312.6	1312.8	1313.0
130°	1362.1	1365.5	1367.2	1366.9	1366.5	1366.2	1365.8
132.5°	1414.5	1417.5	1418.9	1418.6	1418.3	1418.0	1417.5
135°	1490.4	1493.6	1494.8	1494.2	1493.6	1492.9	1492.3
137.5°	1560.5	1563.7	1564.7	1563.6	1562.6	1561.5	1560.3
140°	1605.8	1608.6	1609.2	1607.7	1606.1	1604.5	1602.9
142.5°	1647.5	1650.1	1650.6	1649.0	1647.4	1645.9	1644.3
145°	1705.8	1708.1	1708.4	1706.8	1705.2	1703.5	1702.0
147.5°	1756.4	1758.1	1758.2	1756.9	1755.5	1754.1	1752.8
150°	1788.2	1790.1	1790.2	1788.7	1787.1	1785.4	1783.8
152.5°	1816.8	1818.8	1818.7	1816.5	1814.5	1812.4	1810.3
155°	1855.6	1857.5	1857.2	1854.7	1852.2	1849.6	1847.0
157.5°	1888.5	1890.8	1890.6	1888.1	1885.6	1883.1	1880.7
160°	1907.3	1909.3	1909.1	1906.9	1904.6	1902.4	1900.2
162.5°	1925.4	1927.5	1927.2	1924.5	1921.8	1919.0	1916.3
165°	1947.1	1949.3	1949.3	1947.1	1944.9	1942.7	1940.4
167.5°	1965.2	1967.4	1967.1	1964.3	1961.4	1958.5	1955.6
170°	1974.4	1976.6	1976.3	1973.5	1970.5	1967.7	1964.8
172.5°	1981.3	1983.5	1983.2	1980.3	1977.4	1974.6	1971.7
175°	1988.7	1990.9	1990.5	1987.3	1984.1	1981.0	1977.7
177.5°	1989.1	1990.9	1990.6	1988.3	1986.1	1983.8	1981.5
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9

(END OF REPORT)