

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: P332842-830

Luminaire Tested: **S124DIW-S1195D770U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332842-830  
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: S124DIW-S1195D770U830-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7524.3 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

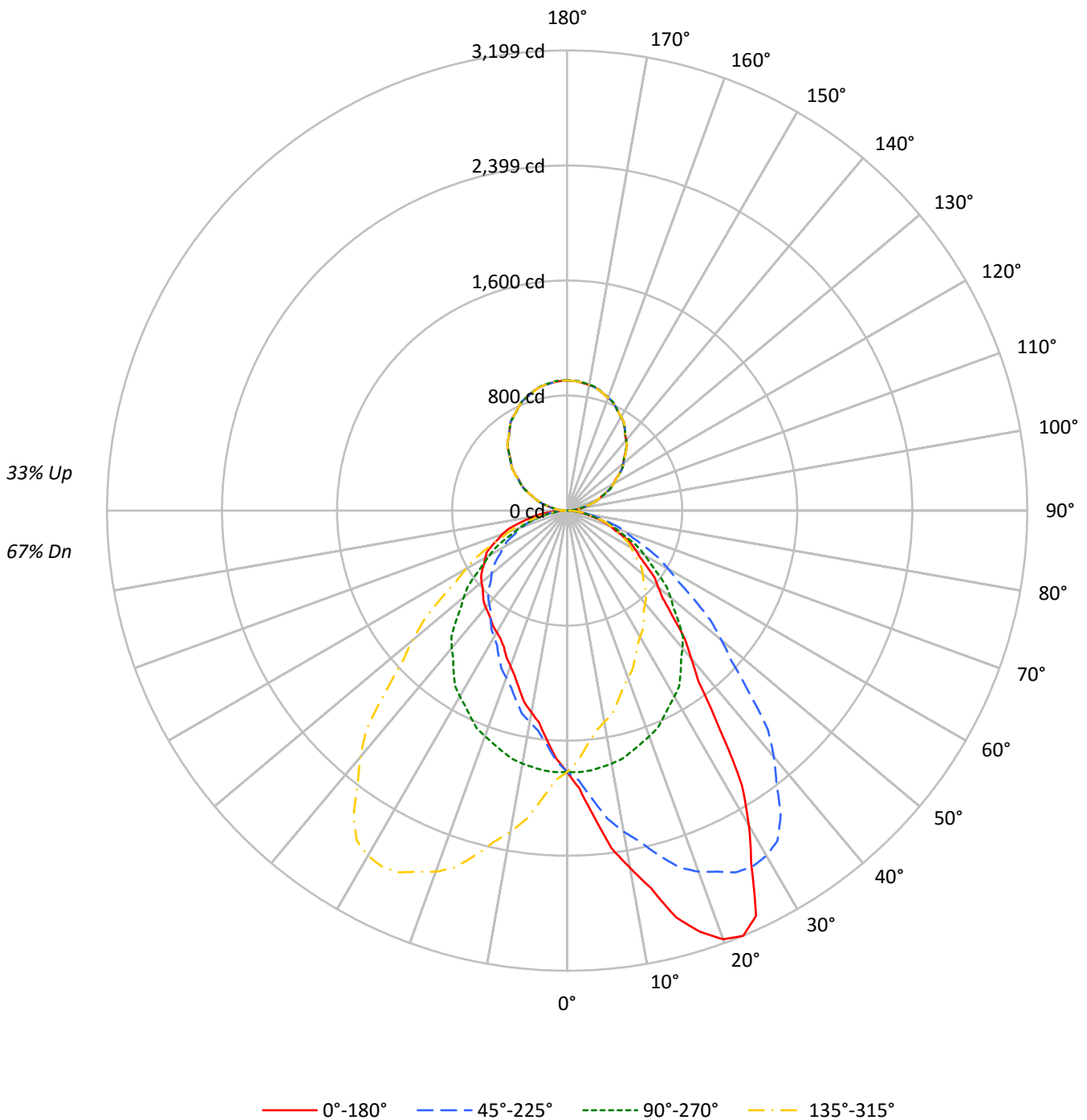
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	94	90	96	92	89	85	82	79	77	72	70	69	64	62	61	57
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48
3	85	75	68	62	80	71	65	59	64	59	54	57	53	49	50	47	44	41
4	78	67	59	53	73	64	56	51	57	51	47	51	46	43	45	41	39	35
5	72	60	52	46	67	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	46	40	62	51	44	38	46	40	36	42	37	33	37	33	30	27
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	27	24
8	57	45	37	31	54	42	35	30	39	32	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

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

	0°	90°	180°	270°
0°	14666	14666	14666	14666
5°	17271	14704	12977	14704
10°	20678	14638	11684	14638
15°	24466	14491	10730	14491
20°	27244	14339	9879	14339
25°	27684	14118	9291	14118
30°	23557	13904	9106	13904
35°	18111	13557	9107	13557
40°	14116	13149	9278	13149
45°	11771	12536	9434	12536
50°	10359	11786	9755	11786
55°	9491	10888	10148	10888
60°	8893	10085	10619	10085
65°	8281	9186	11012	9186
70°	7567	8297	11261	8297
75°	6759	7299	11126	7299
80°	5667	5983	10776	5983
85°	4177	4326	10319	4326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	2.4
10°-20°	545.5	7.3
20°-30°	865.0	11.5
30°-40°	962.7	12.8
40°-50°	876.3	11.6
50°-60°	716.1	9.5
60°-70°	511.2	6.8
70°-80°	281.5	3.7
80°-90°	79.6	1.1
90°-100°	59.7	0.8
100°-110°	176.7	2.3
110°-120°	300.0	4.0
120°-130°	395.5	5.3
130°-140°	444.2	5.9
140°-150°	436.5	5.8
150°-160°	367.1	4.9
160°-170°	244.3	3.2
170°-180°	85.5	1.1
0°-30°	1587.5	21.1
0°-40°	2550.2	33.9
0°-60°	4142.6	55.1
0°-90°	5014.8	66.6
90°-120°	536.4	7.1
90°-150°	1812.6	24.1
90°-180°	2510.0	33.4
0°-180°	7524.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1817	1817	1817	1817	1817	
5°	2131	1814	1601	1814	2131	217
15°	2927	1734	1284	1734	2927	827
25°	3108	1585	1043	1585	3108	1370
35°	1838	1376	924	1376	1838	1166
45°	1031	1098	826	1098	1031	812
55°	674	774	721	774	674	609
65°	434	481	576	481	434	429
75°	217	234	357	234	217	230
85°	45	47	111	47	45	55
90°	21	2	21	2	21	12
95°	55	42	55	42	55	58
105°	171	163	171	163	171	180
115°	302	305	302	305	302	299
125°	441	444	441	444	441	393
135°	574	573	574	573	574	443
145°	697	696	697	696	697	436
155°	797	798	797	798	797	367
165°	866	868	866	868	866	244
175°	899	903	899	903	899	85
180°	904	904	904	904	904	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1933.4	1932.8	1926.8	1925.6	1921.4	1916.0	1914.8	1905.2	1885.8	1876.8	1874.4
5°	2131.2	2146.3	2126.7	2122.9	2120.6	2095.8	2083.0	2067.9	2033.3	2013.1	1997.2
7.5°	2367.2	2369.0	2360.4	2353.5	2334.4	2312.7	2280.2	2245.6	2204.3	2161.4	2129.1
10°	2522.5	2528.6	2518.8	2517.2	2478.9	2454.8	2406.6	2366.0	2319.3	2267.4	2220.0
12.5°	2686.2	2677.9	2672.9	2640.6	2633.6	2589.6	2533.6	2491.8	2419.9	2360.1	2297.1
15°	2927.3	2910.9	2900.3	2855.9	2834.0	2773.1	2713.7	2667.8	2573.7	2484.2	2416.4
17.5°	3068.8	3085.4	3061.0	3042.8	2986.4	2943.7	2882.9	2786.5	2712.9	2601.7	2516.2
20°	3171.2	3172.7	3159.1	3140.4	3096.0	3041.8	2975.5	2870.1	2782.1	2671.5	2554.1
22.5°	3198.9	3199.2	3193.4	3175.9	3142.2	3098.3	3031.5	2943.7	2837.0	2716.7	2599.2
25°	3107.9	3104.9	3111.7	3131.3	3118.5	3104.9	3066.6	3001.1	2901.8	2774.6	2648.2
27.5°	2770.2	2791.0	2829.2	2877.4	2923.8	2959.1	2969.1	2955.6	2894.1	2789.5	2657.0
30°	2527.1	2552.6	2581.2	2629.3	2722.7	2776.1	2834.8	2879.2	2854.4	2770.9	2647.4
32.5°	2259.7	2266.1	2308.5	2363.2	2448.7	2551.6	2644.6	2734.7	2764.7	2720.8	2617.9
35°	1837.7	1848.2	1894.1	1948.3	2053.0	2178.6	2318.6	2443.4	2546.6	2587.9	2535.3
37.5°	1499.7	1529.9	1562.3	1620.5	1712.6	1825.8	1971.2	2132.9	2286.5	2389.4	2406.9
40°	1339.5	1358.3	1381.7	1426.1	1504.3	1615.7	1740.6	1925.7	2089.1	2236.6	2284.7
42.5°	1213.1	1224.1	1238.4	1278.6	1338.1	1449.0	1563.0	1725.9	1889.8	2066.1	2146.8
45°	1031.0	1042.3	1066.3	1089.7	1134.8	1211.5	1317.7	1451.6	1616.5	1786.5	1935.5
47.5°	899.5	906.6	921.0	945.9	984.3	1034.9	1121.2	1233.1	1385.9	1551.0	1709.8
50°	824.8	830.8	842.1	864.7	894.0	939.1	1009.9	1114.5	1234.2	1400.4	1556.2
52.5°	765.8	768.2	776.5	791.8	815.1	853.1	911.2	997.7	1108.9	1257.2	1412.4
55°	674.3	677.3	684.9	696.1	716.4	740.5	784.9	849.6	946.7	1075.3	1210.0
57.5°	599.0	601.2	607.5	611.8	628.5	648.1	682.2	728.5	802.0	911.2	1031.4
60°	550.8	549.3	556.9	560.6	571.9	588.5	614.8	659.2	723.2	811.2	921.9
62.5°	503.9	501.8	508.1	513.1	519.5	533.7	555.3	590.0	641.9	721.5	817.1
65°	433.5	430.5	434.2	440.3	446.3	453.7	469.6	500.4	541.9	599.0	672.0
67.5°	362.7	365.9	366.5	369.5	373.0	383.2	394.0	415.8	445.1	490.8	552.7
70°	320.6	321.3	324.3	324.3	326.6	335.6	344.7	357.4	386.1	428.2	478.6
72.5°	278.4	281.6	280.4	282.8	284.5	290.5	297.1	309.2	333.7	365.0	407.6
75°	216.7	219.0	219.0	219.7	222.0	224.2	229.5	238.6	255.9	279.2	308.5
77.5°	158.1	158.3	159.4	162.1	162.1	165.7	169.7	176.8	185.4	201.4	219.3
80°	121.9	123.4	122.6	124.1	124.1	127.1	128.7	137.7	141.5	152.0	166.3
82.5°	89.4	90.9	90.8	92.8	94.1	94.6	96.8	100.4	104.2	113.5	119.3
85°	45.1	46.7	45.1	46.7	48.9	49.7	51.9	52.7	55.7	58.0	63.2
87.5°	17.4	19.2	19.1	19.7	20.8	21.3	21.7	20.9	23.1	23.6	25.7
90°	21.0	20.6	20.4	20.1	19.7	19.1	18.2	17.2	16.3	15.4	14.1
92.5°	31.1	30.9	30.7	30.5	30.3	30.0	29.4	28.8	28.3	27.7	26.9
95°	55.2	55.2	55.2	55.2	55.2	55.0	54.6	54.1	53.6	53.2	52.1
97.5°	86.6	86.6	86.6	86.6	86.6	86.3	85.8	85.2	84.6	84.1	82.8
100°	108.4	108.4	108.4	108.4	108.4	108.3	107.9	107.6	107.4	107.1	105.7
102.5°	133.1	132.9	132.8	132.7	132.5	132.2	131.9	131.4	131.0	130.5	129.2
105°	170.7	170.2	169.8	169.3	168.8	168.3	167.9	167.4	166.9	166.5	165.9
107.5°	207.4	207.4	207.5	207.5	207.5	207.3	206.8	206.4	205.9	205.6	205.5
110°	233.7	233.2	232.7	232.2	231.8	231.7	232.1	232.3	232.6	232.9	233.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	260.5	260.4	260.3	260.2	260.1	260.1	260.1	260.2	260.3	260.3	260.6
115°	302.2	302.4	302.6	302.7	302.8	302.9	303.1	303.3	303.4	303.6	303.9
117.5°	342.0	342.2	342.5	342.9	343.2	343.6	344.1	344.7	345.2	345.7	345.9
120°	372.1	371.8	371.6	371.3	370.9	371.2	371.9	372.7	373.4	374.3	374.8
122.5°	397.4	397.9	398.4	399.0	399.5	400.1	400.7	401.1	401.7	402.3	402.5
125°	440.7	441.0	441.3	441.7	442.0	442.2	442.6	442.9	443.2	443.5	443.7
127.5°	480.9	481.1	481.4	481.6	481.8	482.1	482.5	482.8	483.1	483.4	483.6
130°	507.2	507.7	508.4	509.1	509.6	510.1	510.4	510.8	511.0	511.3	511.3
132.5°	535.2	535.4	535.6	535.9	536.1	536.4	536.8	537.1	537.3	537.6	537.8
135°	573.6	574.1	574.6	575.0	575.5	575.9	576.2	576.5	576.8	577.1	577.1
137.5°	614.1	614.0	613.9	613.8	613.7	613.9	614.3	614.6	615.0	615.5	615.2
140°	638.7	638.9	638.9	639.1	639.3	639.4	639.6	639.8	639.9	640.1	640.1
142.5°	663.3	663.4	663.4	663.4	663.5	663.5	663.5	663.5	663.5	663.5	663.7
145°	696.7	697.2	697.7	698.1	698.6	698.9	699.1	699.3	699.4	699.6	699.4
147.5°	730.6	730.8	730.9	731.0	731.2	731.3	731.5	731.6	731.7	731.9	732.0
150°	751.3	751.5	751.6	751.8	752.0	752.1	752.1	752.1	752.1	752.1	752.1
152.5°	770.3	770.7	771.2	771.6	771.9	771.9	771.6	771.2	770.8	770.4	770.3
155°	796.8	797.4	798.1	798.6	799.3	799.3	798.6	798.1	797.4	796.8	796.9
157.5°	820.4	821.0	821.5	822.0	822.6	822.6	822.1	821.6	821.1	820.7	820.8
160°	833.9	834.6	835.4	836.2	837.0	837.2	836.7	836.2	835.8	835.3	835.4
162.5°	847.8	848.7	849.4	850.2	850.9	850.9	850.1	849.2	848.4	847.5	847.7
165°	866.0	866.7	867.2	867.9	868.6	868.4	867.4	866.5	865.5	864.6	865.0
167.5°	879.0	880.1	881.0	881.9	882.9	882.9	881.9	881.1	880.1	879.2	879.1
170°	886.4	887.4	888.5	889.6	890.7	890.8	889.9	888.9	888.0	887.0	886.8
172.5°	892.5	893.5	894.7	895.7	896.8	896.8	895.8	894.8	893.7	892.6	892.6
175°	898.9	900.0	901.1	902.2	903.2	903.2	902.2	901.1	900.0	898.9	899.1
177.5°	902.3	903.2	904.3	905.2	906.3	906.3	905.4	904.6	903.7	902.9	902.9
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1875.0	1866.6	1860.6	1855.8	1842.5	1834.7	1828.6	1820.2	1810.6	1800.4	1787.7
5°	1981.4	1955.9	1937.0	1908.5	1881.3	1858.8	1835.4	1814.4	1788.8	1761.0	1740.6
7.5°	2093.3	2055.2	2006.4	1964.2	1916.6	1875.2	1838.1	1800.3	1760.8	1722.6	1687.5
10°	2164.3	2115.3	2061.2	1997.2	1937.0	1883.6	1833.9	1785.7	1739.1	1692.4	1652.6
12.5°	2240.8	2179.8	2099.7	2025.0	1957.5	1886.0	1826.1	1767.1	1710.8	1661.8	1615.2
15°	2343.4	2255.3	2162.8	2062.7	1973.9	1890.4	1808.4	1733.8	1670.7	1605.9	1560.8
17.5°	2406.5	2297.5	2191.7	2087.1	1979.6	1874.2	1785.7	1699.9	1620.7	1556.4	1499.5
20°	2448.0	2339.7	2207.9	2103.4	1975.4	1867.1	1764.7	1669.1	1586.4	1517.9	1459.2
22.5°	2484.2	2358.9	2227.2	2089.5	1962.2	1847.2	1735.2	1639.0	1554.4	1482.3	1426.1
25°	2503.7	2359.9	2217.0	2080.0	1935.5	1799.3	1697.7	1584.9	1494.5	1418.5	1358.3
27.5°	2505.8	2352.1	2190.4	2038.2	1889.0	1762.2	1633.9	1533.0	1439.3	1359.0	1301.2
30°	2499.2	2338.9	2165.0	2000.3	1850.5	1712.8	1601.4	1491.6	1396.0	1316.2	1255.9
32.5°	2478.1	2311.2	2132.5	1958.1	1802.9	1668.2	1553.2	1448.8	1355.7	1277.1	1213.8
35°	2417.2	2252.3	2061.9	1880.6	1721.8	1585.6	1481.8	1375.6	1282.3	1207.9	1146.9
37.5°	2321.9	2172.8	1979.3	1791.7	1635.7	1498.9	1396.0	1300.0	1216.0	1140.3	1077.8
40°	2238.8	2107.9	1913.7	1730.8	1562.3	1432.1	1335.8	1247.7	1164.1	1092.7	1033.2
42.5°	2143.1	2029.0	1849.9	1656.1	1493.6	1362.8	1268.9	1189.9	1111.2	1045.1	985.7
45°	1972.4	1897.1	1728.6	1549.4	1380.2	1256.7	1167.2	1098.0	1031.7	967.0	917.4
47.5°	1776.1	1738.8	1596.9	1426.8	1266.0	1144.4	1066.8	1002.9	944.7	889.9	846.1
50°	1644.3	1626.3	1503.5	1339.5	1186.0	1071.6	993.3	938.4	888.7	840.6	799.2
52.5°	1514.3	1513.6	1403.1	1252.8	1110.8	1000.6	922.9	871.6	828.6	789.4	752.2
55°	1315.4	1336.5	1250.0	1116.0	988.8	889.5	819.5	773.6	743.5	711.1	683.3
57.5°	1132.8	1167.8	1096.5	978.5	872.3	780.8	719.9	685.4	653.4	633.8	613.5
60°	1013.7	1046.8	991.1	891.7	791.6	713.4	655.4	624.6	596.7	583.2	568.9
62.5°	907.7	937.2	896.0	803.9	717.0	641.8	592.9	563.2	544.4	529.6	520.2
65°	756.3	781.2	745.7	678.8	604.3	544.1	504.2	480.9	462.8	456.8	446.3
67.5°	611.3	634.0	614.8	557.9	498.1	452.6	421.4	399.0	388.3	383.0	375.5
70°	525.3	547.8	527.5	477.9	432.0	393.6	364.2	351.5	340.2	337.9	327.3
72.5°	452.4	467.8	447.4	408.6	369.4	337.0	314.2	300.9	295.0	291.0	285.2
75°	339.4	353.0	339.4	309.2	281.4	258.9	239.3	234.0	227.2	225.0	221.2
77.5°	240.3	251.9	241.6	222.7	202.0	184.5	174.0	167.2	165.7	161.8	163.6
80°	183.6	191.1	181.3	168.5	152.0	140.0	132.4	128.7	124.1	122.6	125.6
82.5°	131.9	135.2	130.2	121.6	109.2	101.4	96.3	92.0	91.0	91.3	91.3
85°	68.5	67.8	67.0	59.5	55.7	50.4	47.4	46.7	45.9	47.4	48.9
87.5°	25.4	25.8	25.0	22.2	20.1	18.0	17.1	16.1	17.1	18.0	18.9
90°	12.9	11.7	10.5	9.0	7.3	5.6	3.8	2.1	3.8	5.6	7.3
92.5°	25.9	25.1	24.2	22.8	20.8	18.9	17.0	15.0	17.0	18.9	20.8
95°	51.0	49.9	48.8	47.6	46.2	44.8	43.4	41.9	43.4	44.8	46.2
97.5°	81.5	80.3	79.0	77.8	76.6	75.6	74.5	73.3	74.5	75.6	76.6
100°	104.2	102.8	101.4	100.4	99.8	99.2	98.6	97.9	98.6	99.2	99.8
102.5°	128.0	126.7	125.5	124.7	124.4	124.1	123.9	123.7	123.9	124.1	124.4
105°	165.2	164.7	164.0	163.6	163.4	163.3	163.2	163.0	163.2	163.3	163.4
107.5°	205.4	205.3	205.2	205.0	204.8	204.6	204.4	204.2	204.4	204.6	204.8
110°	233.3	233.4	233.6	233.5	233.2	232.9	232.5	232.2	232.5	232.9	233.2





TEST NUMBER: P332842-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	260.9	261.2	261.5	261.6	261.6	261.5	261.4	261.4	261.4	261.5	261.6
115°	304.3	304.5	304.8	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0
117.5°	346.2	346.4	346.6	346.7	346.5	346.4	346.3	346.1	346.3	346.4	346.5
120°	375.2	375.7	376.1	376.1	375.4	374.8	374.2	373.5	374.2	374.8	375.4
122.5°	402.7	402.9	403.1	403.1	402.8	402.6	402.4	402.1	402.4	402.6	402.8
125°	443.8	443.9	444.1	444.2	444.2	444.2	444.2	444.2	444.2	444.2	444.2
127.5°	483.9	484.1	484.4	484.3	483.8	483.3	482.9	482.4	482.9	483.3	483.8
130°	511.3	511.3	511.3	511.1	510.7	510.2	509.7	509.3	509.7	510.2	510.7
132.5°	537.9	538.0	538.2	538.1	537.7	537.3	537.1	536.7	537.1	537.3	537.7
135°	577.1	577.1	577.1	576.6	575.7	574.8	573.8	573.0	573.8	574.8	575.7
137.5°	614.9	614.7	614.4	614.2	613.7	613.2	612.8	612.4	612.8	613.2	613.7
140°	640.1	640.1	640.1	639.9	639.6	639.3	638.9	638.7	638.9	639.3	639.6
142.5°	663.8	663.9	664.1	664.0	663.6	663.4	663.1	662.7	663.1	663.4	663.6
145°	699.3	699.1	698.9	698.5	698.0	697.3	696.6	696.1	696.6	697.3	698.0
147.5°	732.1	732.3	732.4	732.1	731.3	730.6	729.8	729.1	729.8	730.6	731.3
150°	752.1	752.1	752.1	751.7	751.1	750.5	749.8	749.2	749.8	750.5	751.1
152.5°	770.2	770.1	770.0	769.8	769.4	769.0	768.6	768.3	768.6	769.0	769.4
155°	797.1	797.2	797.4	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5
157.5°	820.8	820.8	820.9	821.0	821.2	821.5	821.8	822.1	821.8	821.5	821.2
160°	835.6	835.8	835.8	836.0	836.2	836.3	836.5	836.7	836.5	836.3	836.2
162.5°	847.9	848.0	848.2	848.5	848.9	849.2	849.7	850.1	849.7	849.2	848.9
165°	865.3	865.5	865.9	866.3	866.8	867.2	867.7	868.2	867.7	867.2	866.8
167.5°	879.1	879.1	879.0	879.4	880.1	880.7	881.4	881.9	881.4	880.7	880.1
170°	886.7	886.6	886.4	886.7	887.5	888.3	889.0	889.9	889.0	888.3	887.5
172.5°	892.6	892.5	892.5	892.8	893.4	894.1	894.8	895.4	894.8	894.1	893.4
175°	899.2	899.4	899.6	900.0	900.8	901.5	902.3	903.1	902.3	901.5	900.8
177.5°	902.9	902.9	902.9	903.1	903.8	904.4	905.0	905.6	905.0	904.4	903.8
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332842-830

CATALOG NUMBER: S124DIW-S1195D770U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1781.7	1776.3	1768.5	1757.7	1748.6	1739.0	1736.5	1733.0	1740.1	1734.2	1732.3
5°	1723.3	1707.5	1687.2	1663.9	1650.3	1630.8	1627.0	1619.5	1611.9	1611.2	1603.6
7.5°	1661.4	1638.2	1611.7	1587.8	1565.8	1544.5	1530.5	1527.5	1516.4	1509.9	1502.3
10°	1621.7	1593.1	1562.3	1539.7	1514.1	1491.6	1475.7	1466.7	1459.2	1450.9	1443.4
12.5°	1574.8	1544.4	1518.9	1494.5	1464.1	1447.0	1421.0	1405.3	1403.8	1403.9	1384.4
15°	1520.1	1490.1	1450.9	1416.3	1399.7	1366.6	1352.3	1334.3	1323.0	1311.6	1302.7
17.5°	1457.6	1420.2	1389.6	1349.9	1318.3	1291.9	1273.2	1262.3	1245.3	1229.4	1217.8
20°	1418.5	1378.7	1346.3	1304.1	1269.5	1237.2	1221.3	1206.4	1193.5	1180.0	1167.2
22.5°	1378.8	1337.1	1297.5	1256.6	1224.4	1190.2	1175.0	1154.5	1142.4	1134.8	1122.0
25°	1316.2	1271.0	1225.9	1186.8	1153.7	1123.5	1103.2	1087.4	1073.8	1067.8	1059.6
27.5°	1248.1	1203.3	1159.7	1115.2	1077.6	1055.8	1039.5	1027.7	1019.8	1011.8	1008.1
30°	1204.9	1158.2	1111.5	1070.1	1035.5	1013.7	998.6	990.3	984.3	980.5	976.8
32.5°	1160.8	1114.8	1065.7	1027.9	996.9	977.5	966.1	957.8	954.8	953.5	952.2
35°	1090.4	1043.8	998.6	964.8	935.4	927.8	918.1	913.6	912.1	917.4	919.6
37.5°	1022.3	978.9	937.4	904.6	885.3	874.3	871.0	871.1	876.6	881.2	886.6
40°	978.3	936.1	897.0	868.5	850.4	843.6	842.1	845.8	851.9	857.1	863.2
42.5°	935.6	894.0	858.5	831.7	819.1	812.8	813.8	817.6	826.0	832.5	841.5
45°	869.2	834.5	799.9	778.2	767.6	769.1	769.1	775.9	784.1	793.9	803.7
47.5°	806.7	771.8	743.4	725.0	719.5	718.2	722.5	731.3	743.2	755.3	768.9
50°	764.6	731.5	706.6	690.0	684.1	686.4	692.3	700.6	714.9	730.0	744.2
52.5°	721.8	691.7	668.7	653.4	649.1	653.2	659.2	672.3	684.9	701.1	718.4
55°	655.4	629.9	611.8	600.5	599.0	601.2	608.0	622.4	640.4	660.7	677.3
57.5°	589.4	568.0	551.5	543.7	544.4	546.5	557.6	574.7	593.9	615.6	637.0
60°	544.8	525.3	511.7	505.7	506.4	511.0	524.5	540.4	564.4	585.5	608.0
62.5°	502.7	485.5	472.6	467.2	466.1	476.1	489.0	505.4	529.5	553.0	577.3
65°	435.0	421.4	410.9	407.8	410.1	417.6	434.2	456.0	476.4	501.1	526.8
67.5°	368.7	357.6	350.3	351.8	354.5	365.6	379.5	398.2	421.3	447.0	472.3
70°	326.6	316.0	310.0	310.8	315.3	328.9	340.9	359.7	384.6	410.9	432.0
72.5°	283.2	276.4	270.9	274.1	278.6	287.9	302.9	321.8	343.7	368.2	390.4
75°	217.4	217.4	214.4	216.7	223.5	232.5	243.8	263.3	285.2	304.8	322.8
77.5°	161.4	159.7	161.6	164.4	168.2	179.0	191.9	205.9	222.3	241.9	256.7
80°	123.4	124.1	127.9	132.4	133.9	142.2	155.8	168.5	181.3	197.9	212.3
82.5°	92.7	93.5	95.4	101.1	102.6	111.5	120.3	133.1	144.7	155.8	167.7
85°	50.4	50.4	54.2	56.5	60.2	66.3	71.4	79.0	89.5	97.1	108.4
87.5°	21.0	21.3	24.0	25.4	27.5	30.7	32.1	38.9	41.6	44.8	50.3
90°	9.0	10.5	11.7	12.9	14.1	15.4	16.3	17.2	18.2	19.1	19.7
92.5°	22.8	24.2	25.1	25.9	26.9	27.7	28.3	28.8	29.4	30.0	30.3
95°	47.6	48.8	49.9	51.0	52.1	53.2	53.6	54.1	54.6	55.0	55.2
97.5°	77.8	79.0	80.3	81.5	82.8	84.1	84.6	85.2	85.8	86.3	86.6
100°	100.4	101.4	102.8	104.2	105.7	107.1	107.4	107.6	107.9	108.3	108.4
102.5°	124.7	125.5	126.7	128.0	129.2	130.5	131.0	131.4	131.9	132.2	132.5
105°	163.6	164.0	164.7	165.2	165.9	166.5	166.9	167.4	167.9	168.3	168.8
107.5°	205.0	205.2	205.3	205.4	205.5	205.6	205.9	206.4	206.8	207.3	207.5
110°	233.5	233.6	233.4	233.3	233.1	232.9	232.6	232.3	232.1	231.7	231.8



TEST NUMBER: P332842-830

CATALOG NUMBER: S124DIW-S1195D770U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	261.6	261.5	261.2	260.9	260.6	260.3	260.3	260.2	260.1	260.1	260.1
115°	305.0	304.8	304.5	304.3	303.9	303.6	303.4	303.3	303.1	302.9	302.8
117.5°	346.7	346.6	346.4	346.2	345.9	345.7	345.2	344.7	344.1	343.6	343.2
120°	376.1	376.1	375.7	375.2	374.8	374.3	373.4	372.7	371.9	371.2	370.9
122.5°	403.1	403.1	402.9	402.7	402.5	402.3	401.7	401.1	400.7	400.1	399.5
125°	444.2	444.1	443.9	443.8	443.7	443.5	443.2	442.9	442.6	442.2	442.0
127.5°	484.3	484.4	484.1	483.9	483.6	483.4	483.1	482.8	482.5	482.1	481.8
130°	511.1	511.3	511.3	511.3	511.3	511.3	511.0	510.8	510.4	510.1	509.6
132.5°	538.1	538.2	538.0	537.9	537.8	537.6	537.3	537.1	536.8	536.4	536.1
135°	576.6	577.1	577.1	577.1	577.1	577.1	576.8	576.5	576.2	575.9	575.5
137.5°	614.2	614.4	614.7	614.9	615.2	615.5	615.0	614.6	614.3	613.9	613.7
140°	639.9	640.1	640.1	640.1	640.1	640.1	639.9	639.8	639.6	639.4	639.3
142.5°	664.0	664.1	663.9	663.8	663.7	663.5	663.5	663.5	663.5	663.5	663.5
145°	698.5	698.9	699.1	699.3	699.4	699.6	699.4	699.3	699.1	698.9	698.6
147.5°	732.1	732.4	732.3	732.1	732.0	731.9	731.7	731.6	731.5	731.3	731.2
150°	751.7	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.0
152.5°	769.8	770.0	770.1	770.2	770.3	770.4	770.8	771.2	771.6	771.9	771.9
155°	797.5	797.4	797.2	797.1	796.9	796.8	797.4	798.1	798.6	799.3	799.3
157.5°	821.0	820.9	820.8	820.8	820.8	820.7	821.1	821.6	822.1	822.6	822.6
160°	836.0	835.8	835.8	835.6	835.4	835.3	835.8	836.2	836.7	837.2	837.0
162.5°	848.5	848.2	848.0	847.9	847.7	847.5	848.4	849.2	850.1	850.9	850.9
165°	866.3	865.9	865.5	865.3	865.0	864.6	865.5	866.5	867.4	868.4	868.6
167.5°	879.4	879.0	879.1	879.1	879.1	879.2	880.1	881.1	881.9	882.9	882.9
170°	886.7	886.4	886.6	886.7	886.8	887.0	888.0	888.9	889.9	890.8	890.7
172.5°	892.8	892.5	892.5	892.6	892.6	892.6	893.7	894.8	895.8	896.8	896.8
175°	900.0	899.6	899.4	899.2	899.1	898.9	900.0	901.1	902.2	903.2	903.2
177.5°	903.1	902.9	902.9	902.9	902.9	902.9	903.7	904.6	905.4	906.3	906.3
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332842-830

CATALOG NUMBER: S124DIW-S1195D770U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1731.2	1729.9	1725.7	1725.1	1725.7	1729.9	1731.2	1732.3	1734.2	1740.1	1733.0
5°	1599.1	1595.3	1593.1	1601.4	1593.1	1595.3	1599.1	1603.6	1611.2	1611.9	1619.5
7.5°	1499.7	1496.7	1490.1	1487.9	1490.1	1496.7	1499.7	1502.3	1509.9	1516.4	1527.5
10°	1435.9	1432.9	1426.8	1425.3	1426.8	1432.9	1435.9	1443.4	1450.9	1459.2	1466.7
12.5°	1374.4	1368.4	1367.3	1368.8	1367.3	1368.4	1374.4	1384.4	1403.9	1403.8	1405.3
15°	1292.9	1289.9	1281.6	1283.8	1281.6	1289.9	1292.9	1302.7	1311.6	1323.0	1334.3
17.5°	1212.5	1208.9	1198.8	1207.7	1198.8	1208.9	1212.5	1217.8	1229.4	1245.3	1262.3
20°	1161.9	1155.9	1150.7	1149.9	1150.7	1155.9	1161.9	1167.2	1180.0	1193.5	1206.4
22.5°	1113.7	1108.3	1107.9	1103.0	1107.9	1108.3	1113.7	1122.0	1134.8	1142.4	1154.5
25°	1053.6	1048.3	1046.8	1043.0	1046.8	1048.3	1053.6	1059.6	1067.8	1073.8	1087.4
27.5°	1007.4	1004.8	1002.1	1003.2	1002.1	1004.8	1007.4	1008.1	1011.8	1019.8	1027.7
30°	979.0	978.3	976.8	976.8	976.8	978.3	979.0	976.8	980.5	984.3	990.3
32.5°	955.5	955.5	956.3	956.3	956.3	955.5	955.5	952.2	953.5	954.8	957.8
35°	922.7	924.8	926.3	924.1	926.3	924.8	922.7	919.6	917.4	912.1	913.6
37.5°	892.8	895.0	897.2	899.8	897.2	895.0	892.8	886.6	881.2	876.6	871.1
40°	870.0	875.2	876.7	880.4	876.7	875.2	870.0	863.2	857.1	851.9	845.8
42.5°	848.3	854.1	858.0	858.8	858.0	854.1	848.3	841.5	832.5	826.0	817.6
45°	815.0	821.0	826.3	826.3	826.3	821.0	815.0	803.7	793.9	784.1	775.9
47.5°	780.5	789.3	794.6	795.9	794.6	789.3	780.5	768.9	755.3	743.2	731.3
50°	757.1	767.6	772.9	776.7	772.9	767.6	757.1	744.2	730.0	714.9	700.6
52.5°	734.1	744.7	751.8	753.8	751.8	744.7	734.1	718.4	701.1	684.9	672.3
55°	694.6	709.6	717.9	721.0	717.9	709.6	694.6	677.3	660.7	640.4	622.4
57.5°	657.2	671.1	680.7	683.0	680.7	671.1	657.2	637.0	615.6	593.9	574.7
60°	628.4	643.4	655.4	657.7	655.4	643.4	628.4	608.0	585.5	564.4	540.4
62.5°	598.9	614.5	625.4	631.2	625.4	614.5	598.9	577.3	553.0	529.5	505.4
65°	547.8	563.6	574.2	576.5	574.2	563.6	547.8	526.8	501.1	476.4	456.0
67.5°	492.2	507.9	514.9	519.2	514.9	507.9	492.2	472.3	447.0	421.3	398.2
70°	453.0	465.8	473.3	477.1	473.3	465.8	453.0	432.0	410.9	384.6	359.7
72.5°	408.5	421.9	430.6	431.3	430.6	421.9	408.5	390.4	368.2	343.7	321.8
75°	340.2	352.2	356.7	356.7	356.7	352.2	340.2	322.8	304.8	285.2	263.3
77.5°	269.3	275.4	281.2	282.4	281.2	275.4	269.3	256.7	241.9	222.3	205.9
80°	223.5	227.2	231.8	231.8	231.8	227.2	223.5	212.3	197.9	181.3	168.5
82.5°	176.5	179.7	184.3	183.6	184.3	179.7	176.5	167.7	155.8	144.7	133.1
85°	106.9	113.7	112.9	111.4	112.9	113.7	106.9	108.4	97.1	89.5	79.0
87.5°	52.2	52.9	54.7	56.0	54.7	52.9	52.2	50.3	44.8	41.6	38.9
90°	20.1	20.4	20.6	21.0	20.6	20.4	20.1	19.7	19.1	18.2	17.2
92.5°	30.5	30.7	30.9	31.1	30.9	30.7	30.5	30.3	30.0	29.4	28.8
95°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.0	54.6	54.1
97.5°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.3	85.8	85.2
100°	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.3	107.9	107.6
102.5°	132.7	132.8	132.9	133.1	132.9	132.8	132.7	132.5	132.2	131.9	131.4
105°	169.3	169.8	170.2	170.7	170.2	169.8	169.3	168.8	168.3	167.9	167.4
107.5°	207.5	207.5	207.4	207.4	207.4	207.5	207.5	207.5	207.3	206.8	206.4
110°	232.2	232.7	233.2	233.7	233.2	232.7	232.2	231.8	231.7	232.1	232.3



TEST NUMBER: P332842-830

CATALOG NUMBER: S124DIW-S1195D770U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	260.2	260.3	260.4	260.5	260.4	260.3	260.2	260.1	260.1	260.1	260.2
115°	302.7	302.6	302.4	302.2	302.4	302.6	302.7	302.8	302.9	303.1	303.3
117.5°	342.9	342.5	342.2	342.0	342.2	342.5	342.9	343.2	343.6	344.1	344.7
120°	371.3	371.6	371.8	372.1	371.8	371.6	371.3	370.9	371.2	371.9	372.7
122.5°	399.0	398.4	397.9	397.4	397.9	398.4	399.0	399.5	400.1	400.7	401.1
125°	441.7	441.3	441.0	440.7	441.0	441.3	441.7	442.0	442.2	442.6	442.9
127.5°	481.6	481.4	481.1	480.9	481.1	481.4	481.6	481.8	482.1	482.5	482.8
130°	509.1	508.4	507.7	507.2	507.7	508.4	509.1	509.6	510.1	510.4	510.8
132.5°	535.9	535.6	535.4	535.2	535.4	535.6	535.9	536.1	536.4	536.8	537.1
135°	575.0	574.6	574.1	573.6	574.1	574.6	575.0	575.5	575.9	576.2	576.5
137.5°	613.8	613.9	614.0	614.1	614.0	613.9	613.8	613.7	613.9	614.3	614.6
140°	639.1	638.9	638.9	638.7	638.9	638.9	639.1	639.3	639.4	639.6	639.8
142.5°	663.4	663.4	663.4	663.3	663.4	663.4	663.4	663.5	663.5	663.5	663.5
145°	698.1	697.7	697.2	696.7	697.2	697.7	698.1	698.6	698.9	699.1	699.3
147.5°	731.0	730.9	730.8	730.6	730.8	730.9	731.0	731.2	731.3	731.5	731.6
150°	751.8	751.6	751.5	751.3	751.5	751.6	751.8	752.0	752.1	752.1	752.1
152.5°	771.6	771.2	770.7	770.3	770.7	771.2	771.6	771.9	771.9	771.6	771.2
155°	798.6	798.1	797.4	796.8	797.4	798.1	798.6	799.3	799.3	798.6	798.1
157.5°	822.0	821.5	821.0	820.4	821.0	821.5	822.0	822.6	822.6	822.1	821.6
160°	836.2	835.4	834.6	833.9	834.6	835.4	836.2	837.0	837.2	836.7	836.2
162.5°	850.2	849.4	848.7	847.8	848.7	849.4	850.2	850.9	850.9	850.1	849.2
165°	867.9	867.2	866.7	866.0	866.7	867.2	867.9	868.6	868.4	867.4	866.5
167.5°	881.9	881.0	880.1	879.0	880.1	881.0	881.9	882.9	882.9	881.9	881.1
170°	889.6	888.5	887.4	886.4	887.4	888.5	889.6	890.7	890.8	889.9	888.9
172.5°	895.7	894.7	893.5	892.5	893.5	894.7	895.7	896.8	896.8	895.8	894.8
175°	902.2	901.1	900.0	898.9	900.0	901.1	902.2	903.2	903.2	902.2	901.1
177.5°	905.2	904.3	903.2	902.3	903.2	904.3	905.2	906.3	906.3	905.4	904.6
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332842-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1736.5	1739.0	1748.6	1757.7	1768.5	1776.3	1781.7	1787.7	1800.4	1810.6	1820.2
5°	1627.0	1630.8	1650.3	1663.9	1687.2	1707.5	1723.3	1740.6	1761.0	1788.8	1814.4
7.5°	1530.5	1544.5	1565.8	1587.8	1611.7	1638.2	1661.4	1687.5	1722.6	1760.8	1800.3
10°	1475.7	1491.6	1514.1	1539.7	1562.3	1593.1	1621.7	1652.6	1692.4	1739.1	1785.7
12.5°	1421.0	1447.0	1464.1	1494.5	1518.9	1544.4	1574.8	1615.2	1661.8	1710.8	1767.1
15°	1352.3	1366.6	1399.7	1416.3	1450.9	1490.1	1520.1	1560.8	1605.9	1670.7	1733.8
17.5°	1273.2	1291.9	1318.3	1349.9	1389.6	1420.2	1457.6	1499.5	1556.4	1620.7	1699.9
20°	1221.3	1237.2	1269.5	1304.1	1346.3	1378.7	1418.5	1459.2	1517.9	1586.4	1669.1
22.5°	1175.0	1190.2	1224.4	1256.6	1297.5	1337.1	1378.8	1426.1	1482.3	1554.4	1639.0
25°	1103.2	1123.5	1153.7	1186.8	1225.9	1271.0	1316.2	1358.3	1418.5	1494.5	1584.9
27.5°	1039.5	1055.8	1077.6	1115.2	1159.7	1203.3	1248.1	1301.2	1359.0	1439.3	1533.0
30°	998.6	1013.7	1035.5	1070.1	1111.5	1158.2	1204.9	1255.9	1316.2	1396.0	1491.6
32.5°	966.1	977.5	996.9	1027.9	1065.7	1114.8	1160.8	1213.8	1277.1	1355.7	1448.8
35°	918.1	927.8	935.4	964.8	998.6	1043.8	1090.4	1146.9	1207.9	1282.3	1375.6
37.5°	871.0	874.3	885.3	904.6	937.4	978.9	1022.3	1077.8	1140.3	1216.0	1300.0
40°	842.1	843.6	850.4	868.5	897.0	936.1	978.3	1033.2	1092.7	1164.1	1247.7
42.5°	813.8	812.8	819.1	831.7	858.5	894.0	935.6	985.7	1045.1	1111.2	1189.9
45°	769.1	769.1	767.6	778.2	799.9	834.5	869.2	917.4	967.0	1031.7	1098.0
47.5°	722.5	718.2	719.5	725.0	743.4	771.8	806.7	846.1	889.9	944.7	1002.9
50°	692.3	686.4	684.1	690.0	706.6	731.5	764.6	799.2	840.6	888.7	938.4
52.5°	659.2	653.2	649.1	653.4	668.7	691.7	721.8	752.2	789.4	828.6	871.6
55°	608.0	601.2	599.0	600.5	611.8	629.9	655.4	683.3	711.1	743.5	773.6
57.5°	557.6	546.5	544.4	543.7	551.5	568.0	589.4	613.5	633.8	653.4	685.4
60°	524.5	511.0	506.4	505.7	511.7	525.3	544.8	568.9	583.2	596.7	624.6
62.5°	489.0	476.1	466.1	467.2	472.6	485.5	502.7	520.2	529.6	544.4	563.2
65°	434.2	417.6	410.1	407.8	410.9	421.4	435.0	446.3	456.8	462.8	480.9
67.5°	379.5	365.6	354.5	351.8	350.3	357.6	368.7	375.5	383.0	388.3	399.0
70°	340.9	328.9	315.3	310.8	310.0	316.0	326.6	327.3	337.9	340.2	351.5
72.5°	302.9	287.9	278.6	274.1	270.9	276.4	283.2	285.2	291.0	295.0	300.9
75°	243.8	232.5	223.5	216.7	214.4	217.4	217.4	221.2	225.0	227.2	234.0
77.5°	191.9	179.0	168.2	164.4	161.6	159.7	161.4	163.6	161.8	165.7	167.2
80°	155.8	142.2	133.9	132.4	127.9	124.1	123.4	125.6	122.6	124.1	128.7
82.5°	120.3	111.5	102.6	101.1	95.4	93.5	92.7	91.3	91.3	91.0	92.0
85°	71.4	66.3	60.2	56.5	54.2	50.4	50.4	48.9	47.4	45.9	46.7
87.5°	32.1	30.7	27.5	25.4	24.0	21.3	21.0	18.9	18.0	17.1	16.1
90°	16.3	15.4	14.1	12.9	11.7	10.5	9.0	7.3	5.6	3.8	2.1
92.5°	28.3	27.7	26.9	25.9	25.1	24.2	22.8	20.8	18.9	17.0	15.0
95°	53.6	53.2	52.1	51.0	49.9	48.8	47.6	46.2	44.8	43.4	41.9
97.5°	84.6	84.1	82.8	81.5	80.3	79.0	77.8	76.6	75.6	74.5	73.3
100°	107.4	107.1	105.7	104.2	102.8	101.4	100.4	99.8	99.2	98.6	97.9
102.5°	131.0	130.5	129.2	128.0	126.7	125.5	124.7	124.4	124.1	123.9	123.7
105°	166.9	166.5	165.9	165.2	164.7	164.0	163.6	163.4	163.3	163.2	163.0
107.5°	205.9	205.6	205.5	205.4	205.3	205.2	205.0	204.8	204.6	204.4	204.2
110°	232.6	232.9	233.1	233.3	233.4	233.6	233.5	233.2	232.9	232.5	232.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.3	260.3	260.6	260.9	261.2	261.5	261.6	261.6	261.5	261.4	261.4
115°	303.4	303.6	303.9	304.3	304.5	304.8	305.0	305.0	305.0	305.0	305.0
117.5°	345.2	345.7	345.9	346.2	346.4	346.6	346.7	346.5	346.4	346.3	346.1
120°	373.4	374.3	374.8	375.2	375.7	376.1	376.1	375.4	374.8	374.2	373.5
122.5°	401.7	402.3	402.5	402.7	402.9	403.1	403.1	402.8	402.6	402.4	402.1
125°	443.2	443.5	443.7	443.8	443.9	444.1	444.2	444.2	444.2	444.2	444.2
127.5°	483.1	483.4	483.6	483.9	484.1	484.4	484.3	483.8	483.3	482.9	482.4
130°	511.0	511.3	511.3	511.3	511.3	511.3	511.1	510.7	510.2	509.7	509.3
132.5°	537.3	537.6	537.8	537.9	538.0	538.2	538.1	537.7	537.3	537.1	536.7
135°	576.8	577.1	577.1	577.1	577.1	577.1	576.6	575.7	574.8	573.8	573.0
137.5°	615.0	615.5	615.2	614.9	614.7	614.4	614.2	613.7	613.2	612.8	612.4
140°	639.9	640.1	640.1	640.1	640.1	640.1	639.9	639.6	639.3	638.9	638.7
142.5°	663.5	663.5	663.7	663.8	663.9	664.1	664.0	663.6	663.4	663.1	662.7
145°	699.4	699.6	699.4	699.3	699.1	698.9	698.5	698.0	697.3	696.6	696.1
147.5°	731.7	731.9	732.0	732.1	732.3	732.4	732.1	731.3	730.6	729.8	729.1
150°	752.1	752.1	752.1	752.1	752.1	752.1	751.7	751.1	750.5	749.8	749.2
152.5°	770.8	770.4	770.3	770.2	770.1	770.0	769.8	769.4	769.0	768.6	768.3
155°	797.4	796.8	796.9	797.1	797.2	797.4	797.5	797.5	797.5	797.5	797.5
157.5°	821.1	820.7	820.8	820.8	820.8	820.9	821.0	821.2	821.5	821.8	822.1
160°	835.8	835.3	835.4	835.6	835.8	835.8	836.0	836.2	836.3	836.5	836.7
162.5°	848.4	847.5	847.7	847.9	848.0	848.2	848.5	848.9	849.2	849.7	850.1
165°	865.5	864.6	865.0	865.3	865.5	865.9	866.3	866.8	867.2	867.7	868.2
167.5°	880.1	879.2	879.1	879.1	879.1	879.0	879.4	880.1	880.7	881.4	881.9
170°	888.0	887.0	886.8	886.7	886.6	886.4	886.7	887.5	888.3	889.0	889.9
172.5°	893.7	892.6	892.6	892.6	892.5	892.5	892.8	893.4	894.1	894.8	895.4
175°	900.0	898.9	899.1	899.2	899.4	899.6	900.0	900.8	901.5	902.3	903.1
177.5°	903.7	902.9	902.9	902.9	902.9	902.9	903.1	903.8	904.4	905.0	905.6
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332842-830

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1828.6	1834.7	1842.5	1855.8	1860.6	1866.6	1875.0	1874.4	1876.8	1885.8	1905.2
5°	1835.4	1858.8	1881.3	1908.5	1937.0	1955.9	1981.4	1997.2	2013.1	2033.3	2067.9
7.5°	1838.1	1875.2	1916.6	1964.2	2006.4	2055.2	2093.3	2129.1	2161.4	2204.3	2245.6
10°	1833.9	1883.6	1937.0	1997.2	2061.2	2115.3	2164.3	2220.0	2267.4	2319.3	2366.0
12.5°	1826.1	1886.0	1957.5	2025.0	2099.7	2179.8	2240.8	2297.1	2360.1	2419.9	2491.8
15°	1808.4	1890.4	1973.9	2062.7	2162.8	2255.3	2343.4	2416.4	2484.2	2573.7	2667.8
17.5°	1785.7	1874.2	1979.6	2087.1	2191.7	2297.5	2406.5	2516.2	2601.7	2712.9	2786.5
20°	1764.7	1867.1	1975.4	2103.4	2207.9	2339.7	2448.0	2554.1	2671.5	2782.1	2870.1
22.5°	1735.2	1847.2	1962.2	2089.5	2227.2	2358.9	2484.2	2599.2	2716.7	2837.0	2943.7
25°	1697.7	1799.3	1935.5	2080.0	2217.0	2359.9	2503.7	2648.2	2774.6	2901.8	3001.1
27.5°	1633.9	1762.2	1889.0	2038.2	2190.4	2352.1	2505.8	2657.0	2789.5	2894.1	2955.6
30°	1601.4	1712.8	1850.5	2000.3	2165.0	2338.9	2499.2	2647.4	2770.9	2854.4	2879.2
32.5°	1553.2	1668.2	1802.9	1958.1	2132.5	2311.2	2478.1	2617.9	2720.8	2764.7	2734.7
35°	1481.8	1585.6	1721.8	1880.6	2061.9	2252.3	2417.2	2535.3	2587.9	2546.6	2443.4
37.5°	1396.0	1498.9	1635.7	1791.7	1979.3	2172.8	2321.9	2406.9	2389.4	2286.5	2132.9
40°	1335.8	1432.1	1562.3	1730.8	1913.7	2107.9	2238.8	2284.7	2236.6	2089.1	1925.7
42.5°	1268.9	1362.8	1493.6	1656.1	1849.9	2029.0	2143.1	2146.8	2066.1	1889.8	1725.9
45°	1167.2	1256.7	1380.2	1549.4	1728.6	1897.1	1972.4	1935.5	1786.5	1616.5	1451.6
47.5°	1066.8	1144.4	1266.0	1426.8	1596.9	1738.8	1776.1	1709.8	1551.0	1385.9	1233.1
50°	993.3	1071.6	1186.0	1339.5	1503.5	1626.3	1644.3	1556.2	1400.4	1234.2	1114.5
52.5°	922.9	1000.6	1110.8	1252.8	1403.1	1513.6	1514.3	1412.4	1257.2	1108.9	997.7
55°	819.5	889.5	988.8	1116.0	1250.0	1336.5	1315.4	1210.0	1075.3	946.7	849.6
57.5°	719.9	780.8	872.3	978.5	1096.5	1167.8	1132.8	1031.4	911.2	802.0	728.5
60°	655.4	713.4	791.6	891.7	991.1	1046.8	1013.7	921.9	811.2	723.2	659.2
62.5°	592.9	641.8	717.0	803.9	896.0	937.2	907.7	817.1	721.5	641.9	590.0
65°	504.2	544.1	604.3	678.8	745.7	781.2	756.3	672.0	599.0	541.9	500.4
67.5°	421.4	452.6	498.1	557.9	614.8	634.0	611.3	552.7	490.8	445.1	415.8
70°	364.2	393.6	432.0	477.9	527.5	547.8	525.3	478.6	428.2	386.1	357.4
72.5°	314.2	337.0	369.4	408.6	447.4	467.8	452.4	407.6	365.0	333.7	309.2
75°	239.3	258.9	281.4	309.2	339.4	353.0	339.4	308.5	279.2	255.9	238.6
77.5°	174.0	184.5	202.0	222.7	241.6	251.9	240.3	219.3	201.4	185.4	176.8
80°	132.4	140.0	152.0	168.5	181.3	191.1	183.6	166.3	152.0	141.5	137.7
82.5°	96.3	101.4	109.2	121.6	130.2	135.2	131.9	119.3	113.5	104.2	100.4
85°	47.4	50.4	55.7	59.5	67.0	67.8	68.5	63.2	58.0	55.7	52.7
87.5°	17.1	18.0	20.1	22.2	25.0	25.8	25.4	25.7	23.6	23.1	20.9
90°	3.8	5.6	7.3	9.0	10.5	11.7	12.9	14.1	15.4	16.3	17.2
92.5°	17.0	18.9	20.8	22.8	24.2	25.1	25.9	26.9	27.7	28.3	28.8
95°	43.4	44.8	46.2	47.6	48.8	49.9	51.0	52.1	53.2	53.6	54.1
97.5°	74.5	75.6	76.6	77.8	79.0	80.3	81.5	82.8	84.1	84.6	85.2
100°	98.6	99.2	99.8	100.4	101.4	102.8	104.2	105.7	107.1	107.4	107.6
102.5°	123.9	124.1	124.4	124.7	125.5	126.7	128.0	129.2	130.5	131.0	131.4
105°	163.2	163.3	163.4	163.6	164.0	164.7	165.2	165.9	166.5	166.9	167.4
107.5°	204.4	204.6	204.8	205.0	205.2	205.3	205.4	205.5	205.6	205.9	206.4
110°	232.5	232.9	233.2	233.5	233.6	233.4	233.3	233.1	232.9	232.6	232.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	261.4	261.5	261.6	261.6	261.5	261.2	260.9	260.6	260.3	260.3	260.2
115°	305.0	305.0	305.0	305.0	304.8	304.5	304.3	303.9	303.6	303.4	303.3
117.5°	346.3	346.4	346.5	346.7	346.6	346.4	346.2	345.9	345.7	345.2	344.7
120°	374.2	374.8	375.4	376.1	376.1	375.7	375.2	374.8	374.3	373.4	372.7
122.5°	402.4	402.6	402.8	403.1	403.1	402.9	402.7	402.5	402.3	401.7	401.1
125°	444.2	444.2	444.2	444.2	444.1	443.9	443.8	443.7	443.5	443.2	442.9
127.5°	482.9	483.3	483.8	484.3	484.4	484.1	483.9	483.6	483.4	483.1	482.8
130°	509.7	510.2	510.7	511.1	511.3	511.3	511.3	511.3	511.3	511.0	510.8
132.5°	537.1	537.3	537.7	538.1	538.2	538.0	537.9	537.8	537.6	537.3	537.1
135°	573.8	574.8	575.7	576.6	577.1	577.1	577.1	577.1	577.1	576.8	576.5
137.5°	612.8	613.2	613.7	614.2	614.4	614.7	614.9	615.2	615.5	615.0	614.6
140°	638.9	639.3	639.6	639.9	640.1	640.1	640.1	640.1	640.1	639.9	639.8
142.5°	663.1	663.4	663.6	664.0	664.1	663.9	663.8	663.7	663.5	663.5	663.5
145°	696.6	697.3	698.0	698.5	698.9	699.1	699.3	699.4	699.6	699.4	699.3
147.5°	729.8	730.6	731.3	732.1	732.4	732.3	732.1	732.0	731.9	731.7	731.6
150°	749.8	750.5	751.1	751.7	752.1	752.1	752.1	752.1	752.1	752.1	752.1
152.5°	768.6	769.0	769.4	769.8	770.0	770.1	770.2	770.3	770.4	770.8	771.2
155°	797.5	797.5	797.5	797.5	797.4	797.2	797.1	796.9	796.8	797.4	798.1
157.5°	821.8	821.5	821.2	821.0	820.9	820.8	820.8	820.8	820.7	821.1	821.6
160°	836.5	836.3	836.2	836.0	835.8	835.8	835.6	835.4	835.3	835.8	836.2
162.5°	849.7	849.2	848.9	848.5	848.2	848.0	847.9	847.7	847.5	848.4	849.2
165°	867.7	867.2	866.8	866.3	865.9	865.5	865.3	865.0	864.6	865.5	866.5
167.5°	881.4	880.7	880.1	879.4	879.0	879.1	879.1	879.1	879.2	880.1	881.1
170°	889.0	888.3	887.5	886.7	886.4	886.6	886.7	886.8	887.0	888.0	888.9
172.5°	894.8	894.1	893.4	892.8	892.5	892.5	892.6	892.6	892.6	893.7	894.8
175°	902.3	901.5	900.8	900.0	899.6	899.4	899.2	899.1	898.9	900.0	901.1
177.5°	905.0	904.4	903.8	903.1	902.9	902.9	902.9	902.9	902.9	903.7	904.6
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1914.8	1916.0	1921.4	1925.6	1926.8	1932.8	1933.4
5°	2083.0	2095.8	2120.6	2122.9	2126.7	2146.3	2131.2
7.5°	2280.2	2312.7	2334.4	2353.5	2360.4	2369.0	2367.2
10°	2406.6	2454.8	2478.9	2517.2	2518.8	2528.6	2522.5
12.5°	2533.6	2589.6	2633.6	2640.6	2672.9	2677.9	2686.2
15°	2713.7	2773.1	2834.0	2855.9	2900.3	2910.9	2927.3
17.5°	2882.9	2943.7	2986.4	3042.8	3061.0	3085.4	3068.8
20°	2975.5	3041.8	3096.0	3140.4	3159.1	3172.7	3171.2
22.5°	3031.5	3098.3	3142.2	3175.9	3193.4	3199.2	3198.9
25°	3066.6	3104.9	3118.5	3131.3	3111.7	3104.9	3107.9
27.5°	2969.1	2959.1	2923.8	2877.4	2829.2	2791.0	2770.2
30°	2834.8	2776.1	2722.7	2629.3	2581.2	2552.6	2527.1
32.5°	2644.6	2551.6	2448.7	2363.2	2308.5	2266.1	2259.7
35°	2318.6	2178.6	2053.0	1948.3	1894.1	1848.2	1837.7
37.5°	1971.2	1825.8	1712.6	1620.5	1562.3	1529.9	1499.7
40°	1740.6	1615.7	1504.3	1426.1	1381.7	1358.3	1339.5
42.5°	1563.0	1449.0	1338.1	1278.6	1238.4	1224.1	1213.1
45°	1317.7	1211.5	1134.8	1089.7	1066.3	1042.3	1031.0
47.5°	1121.2	1034.9	984.3	945.9	921.0	906.6	899.5
50°	1009.9	939.1	894.0	864.7	842.1	830.8	824.8
52.5°	911.2	853.1	815.1	791.8	776.5	768.2	765.8
55°	784.9	740.5	716.4	696.1	684.9	677.3	674.3
57.5°	682.2	648.1	628.5	611.8	607.5	601.2	599.0
60°	614.8	588.5	571.9	560.6	556.9	549.3	550.8
62.5°	555.3	533.7	519.5	513.1	508.1	501.8	503.9
65°	469.6	453.7	446.3	440.3	434.2	430.5	433.5
67.5°	394.0	383.2	373.0	369.5	366.5	365.9	362.7
70°	344.7	335.6	326.6	324.3	324.3	321.3	320.6
72.5°	297.1	290.5	284.5	282.8	280.4	281.6	278.4
75°	229.5	224.2	222.0	219.7	219.0	219.0	216.7
77.5°	169.7	165.7	162.1	162.1	159.4	158.3	158.1
80°	128.7	127.1	124.1	124.1	122.6	123.4	121.9
82.5°	96.8	94.6	94.1	92.8	90.8	90.9	89.4
85°	51.9	49.7	48.9	46.7	45.1	46.7	45.1
87.5°	21.7	21.3	20.8	19.7	19.1	19.2	17.4
90°	18.2	19.1	19.7	20.1	20.4	20.6	21.0
92.5°	29.4	30.0	30.3	30.5	30.7	30.9	31.1
95°	54.6	55.0	55.2	55.2	55.2	55.2	55.2
97.5°	85.8	86.3	86.6	86.6	86.6	86.6	86.6
100°	107.9	108.3	108.4	108.4	108.4	108.4	108.4
102.5°	131.9	132.2	132.5	132.7	132.8	132.9	133.1
105°	167.9	168.3	168.8	169.3	169.8	170.2	170.7
107.5°	206.8	207.3	207.5	207.5	207.5	207.4	207.4
110°	232.1	231.7	231.8	232.2	232.7	233.2	233.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	260.1	260.1	260.1	260.2	260.3	260.4	260.5
115°	303.1	302.9	302.8	302.7	302.6	302.4	302.2
117.5°	344.1	343.6	343.2	342.9	342.5	342.2	342.0
120°	371.9	371.2	370.9	371.3	371.6	371.8	372.1
122.5°	400.7	400.1	399.5	399.0	398.4	397.9	397.4
125°	442.6	442.2	442.0	441.7	441.3	441.0	440.7
127.5°	482.5	482.1	481.8	481.6	481.4	481.1	480.9
130°	510.4	510.1	509.6	509.1	508.4	507.7	507.2
132.5°	536.8	536.4	536.1	535.9	535.6	535.4	535.2
135°	576.2	575.9	575.5	575.0	574.6	574.1	573.6
137.5°	614.3	613.9	613.7	613.8	613.9	614.0	614.1
140°	639.6	639.4	639.3	639.1	638.9	638.9	638.7
142.5°	663.5	663.5	663.5	663.4	663.4	663.4	663.3
145°	699.1	698.9	698.6	698.1	697.7	697.2	696.7
147.5°	731.5	731.3	731.2	731.0	730.9	730.8	730.6
150°	752.1	752.1	752.0	751.8	751.6	751.5	751.3
152.5°	771.6	771.9	771.9	771.6	771.2	770.7	770.3
155°	798.6	799.3	799.3	798.6	798.1	797.4	796.8
157.5°	822.1	822.6	822.6	822.0	821.5	821.0	820.4
160°	836.7	837.2	837.0	836.2	835.4	834.6	833.9
162.5°	850.1	850.9	850.9	850.2	849.4	848.7	847.8
165°	867.4	868.4	868.6	867.9	867.2	866.7	866.0
167.5°	881.9	882.9	882.9	881.9	881.0	880.1	879.0
170°	889.9	890.8	890.7	889.6	888.5	887.4	886.4
172.5°	895.8	896.8	896.8	895.7	894.7	893.5	892.5
175°	902.2	903.2	903.2	902.2	901.1	900.0	898.9
177.5°	905.4	906.3	906.3	905.2	904.3	903.2	902.3
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5

(END OF REPORT)