

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: P333005-830

Luminaire Tested: **S124RDIP-S1195D1035U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333005-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8207.3 lumens
Efficiency: N/A
Efficacy: 122.9 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: General Diffuse

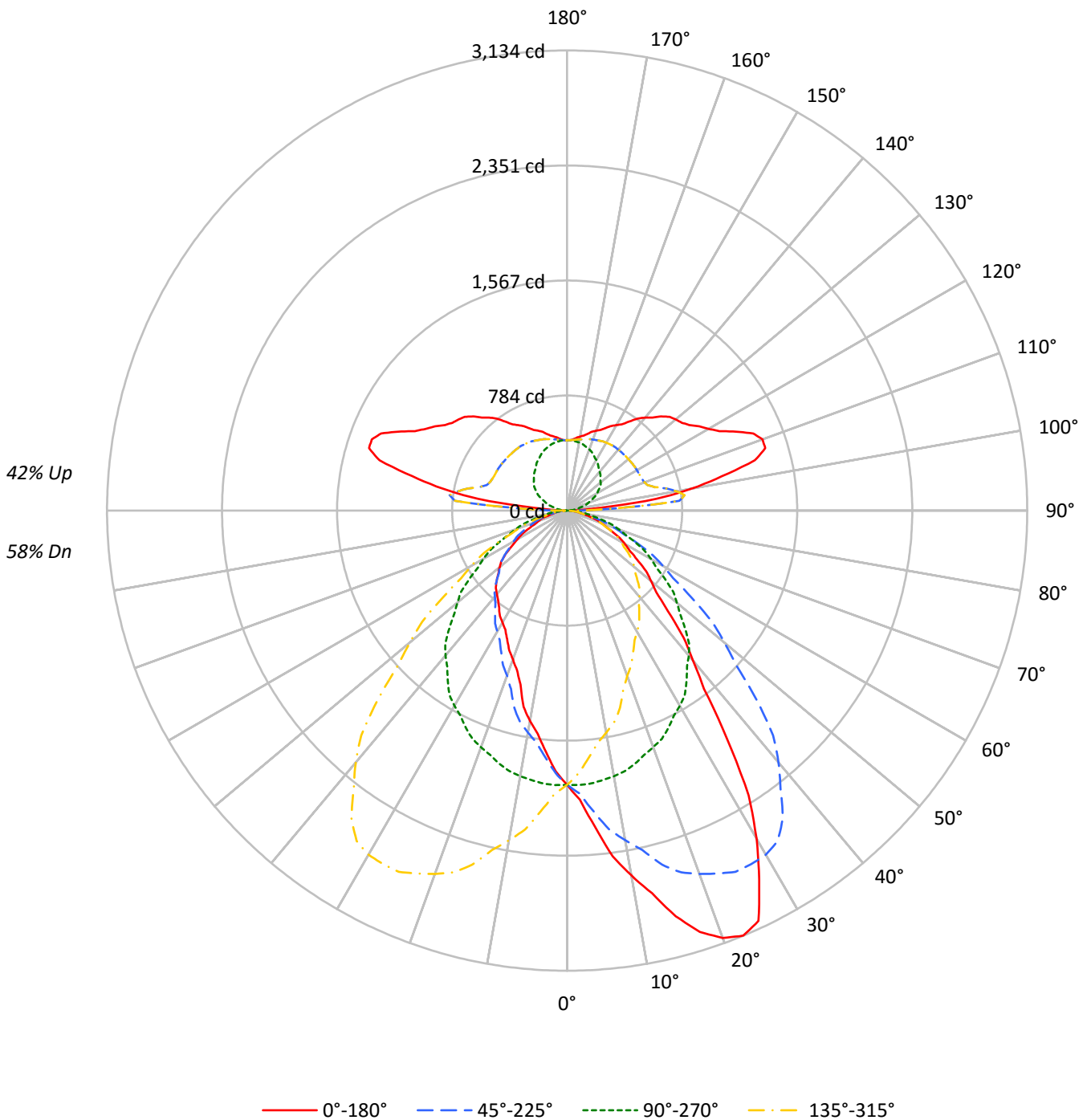
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58
1	100	96	92	89	93	90	86	83	78	75	73	67	65	63	57	55	54	50
2	92	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	47	42
3	84	75	67	62	78	70	64	58	61	56	52	53	49	46	45	42	40	36
4	77	66	59	53	71	62	55	50	55	49	45	47	43	40	41	38	35	32
5	71	59	51	45	66	56	49	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	40	61	50	43	38	44	39	34	39	34	31	34	30	27	25
7	61	48	41	35	56	46	39	33	40	35	30	35	31	27	31	27	24	22
8	56	44	36	31	52	42	35	30	37	31	27	32	28	25	28	25	22	20
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	23	20	18
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15079	15079	15079	15079
5°	17490	15124	13367	15124
10°	20690	15058	11931	15058
15°	23901	14919	10252	14919
20°	26611	14728	9271	14728
25°	27470	14539	8607	14539
30°	24047	14311	8207	14311
35°	18719	13973	7965	13973
40°	14037	13585	7835	13585
45°	11082	12965	7767	12965
50°	9357	12248	7542	12248
55°	8156	11461	7139	11461
60°	7338	10643	6318	10643
65°	6470	9761	5435	9761
70°	5828	8847	4902	8847
75°	4885	7842	4177	7842
80°	4128	6681	3919	6681
85°	3483	5233	3483	5233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.2
10°-20°	545.9	6.7
20°-30°	853.8	10.4
30°-40°	949.2	11.6
40°-50°	842.2	10.3
50°-60°	656.2	8.0
60°-70°	429.6	5.2
70°-80°	211.3	2.6
80°-90°	54.8	0.7
90°-100°	345.9	4.2
100°-110°	720.0	8.8
110°-120°	644.9	7.9
120°-130°	542.4	6.6
130°-140°	452.3	5.5
140°-150°	345.5	4.2
150°-160°	242.9	3.0
160°-170°	142.9	1.7
170°-180°	46.5	0.6
0°-30°	1580.7	19.3
0°-40°	2529.9	30.8
0°-60°	4028.3	49.1
0°-90°	4724.0	57.6
90°-120°	1710.8	20.8
90°-150°	3051.1	37.2
90°-180°	3483.0	42.4
0°-180°	8207.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	2158	1866	1650	1866	2158	218
15°	2860	1785	1227	1785	2860	813
25°	3084	1632	966	1632	3084	1368
35°	1899	1418	808	1418	1899	1191
45°	971	1136	680	1136	971	769
55°	580	814	507	814	580	527
65°	339	511	284	511	339	341
75°	157	251	134	251	157	172
85°	38	56	38	56	38	43
90°	20	1	20	1	20	18
95°	230	31	230	31	230	356
105°	1324	110	1324	110	1324	1309
115°	1271	194	1271	194	1271	1262
125°	1014	270	1014	270	1014	922
135°	907	321	907	321	907	700
145°	741	370	741	370	741	469
155°	620	421	620	421	620	289
165°	541	458	541	458	541	155
175°	487	478	487	478	487	47
180°	479	479	479	479	479	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1970.1	1975.6	1970.1	1969.5	1963.5	1961.7	1959.3	1951.4	1937.0	1928.6	1930.4
5°	2158.2	2177.1	2166.5	2165.0	2148.5	2131.9	2121.4	2097.3	2071.7	2054.5	2040.1
7.5°	2375.9	2386.7	2380.1	2369.6	2342.8	2327.6	2303.2	2271.4	2225.5	2190.5	2158.4
10°	2524.0	2533.0	2530.1	2510.5	2490.9	2451.0	2428.5	2384.1	2326.1	2280.2	2237.3
12.5°	2669.7	2679.4	2652.9	2653.7	2616.7	2585.3	2549.5	2493.6	2426.7	2367.5	2313.8
15°	2859.7	2847.6	2847.6	2832.5	2791.2	2747.5	2710.7	2651.9	2567.7	2496.9	2422.4
17.5°	3008.3	3012.6	3006.3	2970.9	2938.4	2893.2	2825.6	2757.1	2678.9	2583.9	2507.7
20°	3097.5	3097.5	3090.7	3066.6	3024.4	2976.3	2903.3	2828.8	2729.4	2633.8	2548.1
22.5°	3133.6	3135.9	3128.0	3108.1	3070.2	3023.2	2961.1	2885.4	2783.0	2675.4	2569.2
25°	3083.9	3098.2	3099.6	3094.5	3083.2	3054.5	3001.1	2923.6	2831.8	2715.2	2600.8
27.5°	2831.3	2849.4	2865.2	2891.2	2925.8	2943.9	2946.3	2906.9	2826.8	2714.5	2599.4
30°	2579.6	2594.7	2643.6	2707.6	2757.3	2802.5	2841.6	2852.1	2807.0	2706.1	2584.9
32.5°	2300.4	2320.8	2369.7	2438.5	2521.3	2597.7	2685.7	2730.5	2729.3	2668.8	2556.6
35°	1899.4	1914.5	1959.6	2031.8	2131.2	2244.9	2384.1	2492.4	2566.2	2560.9	2492.4
37.5°	1531.8	1548.9	1594.5	1654.4	1750.7	1891.4	2026.1	2175.4	2311.8	2388.4	2365.5
40°	1332.0	1332.8	1377.1	1438.9	1529.2	1651.8	1798.6	1964.1	2116.1	2240.3	2264.4
42.5°	1174.2	1174.4	1203.7	1270.3	1335.3	1450.8	1590.8	1755.2	1933.2	2076.5	2140.3
45°	970.7	977.5	1001.6	1041.5	1092.7	1190.5	1302.6	1455.4	1654.8	1824.9	1931.0
47.5°	822.1	832.0	847.3	879.9	920.7	985.8	1078.6	1215.8	1378.0	1565.1	1716.1
50°	745.0	746.5	766.1	784.1	819.5	871.5	952.7	1067.1	1216.1	1395.9	1563.8
52.5°	678.8	678.4	690.2	713.1	741.9	782.3	847.9	952.1	1084.2	1245.5	1418.7
55°	579.5	583.2	592.2	610.3	632.2	660.7	712.7	790.9	894.8	1032.5	1189.8
57.5°	503.9	505.9	512.9	520.6	540.6	561.4	600.4	654.7	742.3	855.1	1001.6
60°	454.5	455.2	457.5	468.8	484.7	504.2	530.6	576.5	650.2	753.3	869.2
62.5°	406.3	407.7	411.2	419.4	431.7	445.2	472.8	509.6	570.7	658.7	763.2
65°	338.7	339.4	344.7	347.7	357.4	369.5	389.8	414.6	456.8	530.6	609.5
67.5°	283.0	283.0	283.2	287.3	294.1	302.1	314.2	334.1	365.9	411.2	480.9
70°	246.9	246.9	248.4	250.6	254.4	261.1	267.9	283.0	306.3	343.2	396.6
72.5°	213.1	213.7	215.2	215.7	217.6	223.2	228.2	237.8	255.1	283.0	326.1
75°	156.6	158.8	162.6	165.6	169.3	168.5	173.8	179.8	185.1	201.7	226.5
77.5°	116.5	115.3	115.7	118.3	118.8	119.5	123.3	127.9	131.9	139.7	148.5
80°	88.8	88.8	91.0	91.8	91.0	91.8	95.6	97.8	99.3	102.4	110.7
82.5°	67.1	68.3	67.6	68.3	68.8	69.6	72.7	73.1	74.6	75.9	79.4
85°	37.6	38.4	39.1	37.6	37.6	37.6	39.1	39.9	41.4	40.6	42.1
87.5°	17.2	16.6	17.3	17.2	17.6	17.0	17.4	18.5	17.1	17.8	17.4
90°	19.8	19.8	20.7	19.8	18.9	18.9	17.9	17.0	16.0	17.0	15.1
92.5°	72.5	72.5	75.7	80.8	91.8	110.7	139.1	184.8	248.6	298.5	261.2
95°	229.6	241.9	258.7	287.9	334.0	425.3	551.4	697.2	788.5	766.9	578.7
97.5°	613.7	633.3	661.5	718.1	785.7	883.9	975.9	1030.2	990.6	807.7	541.6
100°	862.9	870.3	898.6	956.0	1037.8	1107.5	1153.6	1134.8	997.4	756.5	491.2
102.5°	1079.7	1085.7	1115.4	1157.0	1207.2	1236.2	1222.9	1129.5	940.9	692.6	457.3
105°	1323.9	1329.6	1342.7	1350.3	1348.4	1309.8	1216.6	1053.9	838.4	617.3	428.1
107.5°	1414.7	1412.2	1402.8	1381.3	1334.8	1250.9	1119.7	946.4	755.5	575.1	422.8
110°	1416.2	1407.7	1390.7	1351.2	1284.4	1180.9	1044.4	881.7	714.2	560.8	424.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1371.7	1358.0	1334.3	1286.5	1210.6	1107.1	978.2	834.2	690.9	554.0	428.9
115°	1271.2	1263.7	1233.6	1177.1	1102.8	1012.5	902.4	786.6	669.0	550.4	437.5
117.5°	1169.4	1163.6	1133.1	1085.7	1022.3	945.7	859.1	763.3	659.2	549.5	446.8
120°	1112.2	1101.8	1077.4	1035.9	982.3	915.6	840.3	752.7	653.9	549.5	453.6
122.5°	1067.1	1056.7	1035.9	1000.6	955.3	896.7	828.2	743.8	647.9	548.7	460.3
125°	1014.4	1008.7	990.8	963.6	925.9	874.1	809.2	728.3	638.0	547.6	470.5
127.5°	983.4	977.8	962.8	938.5	900.7	851.6	786.8	709.5	624.6	545.5	478.5
130°	965.4	959.8	944.7	921.1	882.6	832.7	768.7	694.5	616.3	544.8	484.6
132.5°	945.1	939.4	925.1	898.6	860.8	810.9	748.5	678.6	608.8	544.0	489.8
135°	907.1	901.4	886.4	860.1	822.4	775.3	717.9	656.8	597.5	542.9	497.8
137.5°	860.1	853.3	840.8	814.8	779.7	737.2	688.8	637.1	587.7	542.7	502.5
140°	826.1	818.6	805.5	784.8	751.8	712.3	670.0	625.8	582.5	542.0	506.2
142.5°	790.0	784.8	773.1	753.8	724.7	690.5	654.1	615.2	578.0	542.0	509.3
145°	740.6	735.8	726.4	710.4	686.9	660.5	632.4	600.3	570.2	540.1	511.0
147.5°	696.6	695.0	687.9	674.1	656.8	636.1	613.5	588.1	563.3	536.7	511.9
150°	671.8	670.9	665.2	653.0	638.0	621.0	602.2	580.6	558.0	534.4	511.9
152.5°	649.2	648.3	644.9	635.0	622.2	608.2	590.9	572.3	552.0	530.7	510.4
155°	620.1	620.1	617.3	609.7	600.3	589.0	575.0	559.9	542.9	525.1	508.1
157.5°	594.5	594.5	592.8	587.1	580.0	571.0	559.1	546.5	533.7	519.2	505.7
160°	578.7	578.7	577.8	572.1	566.5	558.9	548.6	538.2	527.0	514.7	503.4
162.5°	563.6	564.4	563.5	557.8	553.6	546.9	538.8	529.9	520.9	510.2	501.1
165°	541.0	542.0	542.9	539.1	535.4	530.7	524.1	518.5	511.0	503.4	496.8
167.5°	523.2	524.0	524.1	521.7	519.8	517.0	511.7	507.4	501.9	496.6	492.3
170°	511.9	511.9	512.8	511.9	510.0	507.2	503.4	500.6	495.9	492.1	489.3
172.5°	500.6	502.1	503.0	502.1	501.0	498.9	496.6	494.6	490.6	487.6	486.3
175°	487.4	489.3	491.2	489.3	489.3	489.3	487.4	486.4	484.6	482.7	482.7
177.5°	479.7	481.2	482.7	481.9	482.7	481.9	481.9	481.2	480.4	479.7	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1924.4	1916.0	1911.8	1902.1	1890.6	1884.6	1879.2	1871.4	1861.1	1850.3	1842.5
5°	2022.0	2004.0	1981.4	1954.4	1930.2	1907.0	1886.6	1866.3	1843.0	1818.9	1794.8
7.5°	2122.3	2086.8	2048.4	2004.0	1960.8	1921.6	1885.4	1850.8	1811.7	1776.6	1744.6
10°	2192.2	2144.0	2090.6	2034.1	1977.6	1928.7	1880.6	1836.9	1788.8	1745.9	1709.8
12.5°	2248.7	2192.2	2127.9	2057.6	1989.7	1930.5	1875.2	1818.3	1763.5	1717.0	1668.9
15°	2342.6	2265.1	2178.6	2094.3	2006.3	1925.7	1851.2	1785.0	1722.6	1657.1	1611.2
17.5°	2407.3	2315.3	2210.1	2108.8	2004.8	1909.8	1823.8	1745.0	1672.9	1606.1	1551.4
20°	2445.7	2344.1	2227.5	2112.3	1995.7	1894.1	1801.6	1714.3	1639.7	1567.5	1511.1
22.5°	2467.4	2354.9	2227.5	2107.0	1986.1	1876.0	1774.4	1683.6	1602.4	1530.2	1467.7
25°	2474.4	2353.9	2223.7	2085.3	1952.9	1836.2	1730.8	1632.2	1541.9	1469.7	1403.4
27.5°	2464.7	2322.9	2189.6	2047.5	1910.8	1787.9	1677.3	1573.7	1483.3	1405.7	1337.8
30°	2450.2	2298.2	2155.2	2007.8	1869.3	1751.1	1634.5	1535.2	1441.1	1360.6	1292.1
32.5°	2418.9	2268.1	2114.3	1963.2	1823.0	1701.2	1590.5	1490.6	1398.4	1316.1	1243.3
35°	2356.9	2204.1	2037.1	1882.1	1744.4	1618.0	1514.1	1417.8	1329.7	1241.7	1164.9
37.5°	2275.2	2119.1	1952.9	1783.2	1645.3	1526.0	1430.7	1340.3	1254.3	1173.9	1088.9
40°	2198.2	2056.0	1884.3	1715.8	1574.3	1459.2	1371.1	1289.1	1202.6	1122.8	1037.7
42.5°	2104.9	1983.7	1810.3	1641.2	1501.5	1390.5	1308.5	1228.3	1149.6	1072.2	983.5
45°	1949.1	1857.3	1694.7	1532.2	1391.5	1281.6	1206.4	1135.6	1066.3	992.6	909.1
47.5°	1770.6	1708.4	1568.1	1401.7	1271.5	1172.6	1099.9	1042.1	983.5	909.8	836.5
50°	1646.5	1606.7	1471.2	1319.2	1195.0	1104.0	1029.4	975.2	926.3	855.6	790.1
52.5°	1514.1	1492.9	1378.5	1233.1	1113.1	1023.9	960.3	911.4	862.0	803.2	742.0
55°	1312.4	1323.7	1226.6	1101.0	988.1	912.9	854.9	814.3	772.1	722.5	675.0
57.5°	1106.3	1147.5	1082.3	971.9	866.2	796.6	753.0	718.8	683.4	642.2	601.7
60°	982.8	1017.4	980.5	883.4	790.9	726.2	685.6	659.2	623.9	586.3	555.3
62.5°	862.4	899.5	877.6	799.2	713.2	657.6	621.7	597.2	570.9	538.1	506.1
65°	711.1	735.2	724.7	670.5	609.5	562.1	529.0	511.0	486.9	462.8	434.2
67.5°	544.7	591.2	585.0	556.3	503.6	466.6	444.9	429.0	407.0	389.1	369.7
70°	447.8	490.7	489.9	466.6	438.0	403.3	388.3	374.8	355.2	337.9	322.1
72.5°	366.5	405.8	411.6	393.7	374.2	348.0	333.6	324.2	305.2	293.3	280.5
75°	256.7	285.2	292.8	292.8	283.7	270.1	257.4	251.4	237.8	227.2	219.7
77.5°	168.2	186.3	198.0	200.8	202.2	197.7	187.1	182.9	172.5	168.7	161.5
80°	118.9	130.9	144.5	149.0	152.8	151.3	146.8	143.7	133.9	130.2	127.1
82.5°	82.2	88.8	99.9	109.9	108.8	112.7	108.8	106.4	99.1	97.6	94.6
85°	42.9	43.6	45.1	51.9	55.7	57.2	58.0	56.5	54.2	54.2	48.9
87.5°	17.1	16.5	16.6	16.6	17.0	19.2	20.5	20.6	19.2	18.0	16.4
90°	13.2	13.2	7.5	7.5	6.6	5.7	2.8	0.9	2.8	5.7	6.6
92.5°	190.1	117.1	69.3	49.7	35.9	24.5	15.6	10.7	15.6	24.5	35.9
95°	353.8	199.4	117.6	78.1	55.5	43.3	33.8	31.0	33.8	43.3	55.5
97.5°	318.0	190.7	127.6	94.4	75.1	63.8	55.7	55.7	55.7	63.8	75.1
100°	299.3	192.9	137.4	107.3	89.4	78.1	71.5	71.5	71.5	78.1	89.4
102.5°	294.0	200.4	150.1	121.6	104.4	93.9	88.0	86.5	88.0	93.9	104.4
105°	296.4	218.3	173.1	145.8	128.9	117.6	112.9	110.1	112.9	117.6	128.9
107.5°	310.3	239.2	197.7	170.9	154.7	142.6	138.0	136.1	138.0	142.6	154.7
110°	320.8	255.0	213.6	188.2	171.3	159.9	155.2	153.4	155.2	159.9	171.3



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	332.2	270.0	230.2	204.7	187.8	177.3	171.8	169.9	171.8	177.3	187.8
115°	350.1	293.6	255.9	230.5	212.6	203.2	196.6	193.9	196.6	203.2	212.6
117.5°	368.3	316.3	280.6	254.2	237.5	227.2	221.3	218.7	221.3	227.2	237.5
120°	381.1	332.2	296.4	270.0	254.0	243.7	237.1	235.3	237.1	243.7	254.0
122.5°	393.1	347.2	311.4	285.9	268.3	258.7	252.1	250.3	252.1	258.7	268.3
125°	411.2	367.9	334.0	307.6	289.8	279.5	273.8	270.0	273.8	279.5	289.8
127.5°	426.8	387.1	354.4	327.8	309.2	297.4	290.6	287.6	290.6	297.4	309.2
130°	436.6	399.9	367.9	340.6	322.7	308.6	301.1	297.4	301.1	308.6	322.7
132.5°	446.4	410.5	378.4	352.7	333.3	319.9	310.1	307.1	310.1	319.9	333.3
135°	459.2	425.3	394.3	369.8	350.1	334.0	324.6	320.8	324.6	334.0	350.1
137.5°	468.3	436.6	407.6	384.3	363.7	348.6	338.2	334.6	338.2	348.6	363.7
140°	474.2	444.1	415.9	393.3	373.5	357.6	347.2	344.4	347.2	357.6	373.5
142.5°	478.7	450.9	423.4	401.6	382.6	367.3	357.8	355.0	357.8	367.3	382.6
145°	483.6	458.3	433.8	413.1	395.2	382.0	372.6	369.8	372.6	382.0	395.2
147.5°	488.0	465.8	442.8	424.1	409.3	395.8	387.5	386.5	387.5	395.8	409.3
150°	490.2	469.6	448.8	430.9	416.9	405.6	398.0	397.1	398.0	405.6	416.9
152.5°	491.7	472.6	454.1	437.7	425.1	414.6	407.1	406.9	407.1	414.6	425.1
155°	493.0	477.0	461.1	447.0	436.6	427.2	421.5	420.6	421.5	427.2	436.6
157.5°	493.0	480.2	466.7	455.6	446.6	439.2	433.9	433.9	433.9	439.2	446.6
160°	493.0	481.7	470.5	460.1	452.6	446.0	442.2	442.2	442.2	446.0	452.6
162.5°	493.0	483.2	472.8	464.7	457.9	452.0	449.0	449.8	449.0	452.0	457.9
165°	491.2	483.6	475.1	469.6	464.9	460.1	458.3	458.3	458.3	460.1	464.9
167.5°	488.9	483.4	477.2	473.0	470.3	466.7	465.8	466.7	465.8	466.7	470.3
170°	487.4	482.7	478.0	475.1	473.3	470.5	469.6	470.5	469.6	470.5	473.3
172.5°	485.9	481.9	478.7	476.6	475.5	473.4	473.3	474.2	473.3	473.4	475.5
175°	483.6	480.8	478.9	478.9	478.0	477.0	477.0	478.0	477.0	477.0	478.0
177.5°	481.2	479.7	478.9	478.9	478.9	478.2	478.9	479.7	478.9	478.2	478.9
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1834.1	1828.1	1820.2	1811.2	1800.4	1790.7	1786.5	1790.2	1792.0	1787.2	1786.5
5°	1778.2	1759.4	1744.4	1721.8	1703.7	1688.7	1678.2	1673.7	1675.2	1663.1	1660.1
7.5°	1715.5	1693.2	1668.5	1641.7	1616.7	1594.6	1583.0	1576.7	1564.0	1558.5	1549.4
10°	1675.2	1645.0	1621.0	1589.3	1560.8	1534.5	1521.6	1511.1	1498.3	1492.2	1479.5
12.5°	1633.6	1598.6	1572.2	1539.4	1510.1	1478.5	1466.2	1446.7	1426.6	1414.0	1397.6
15°	1575.1	1533.0	1500.5	1461.4	1426.8	1390.7	1358.3	1322.2	1308.6	1280.1	1263.5
17.5°	1506.6	1463.9	1423.8	1371.3	1317.9	1273.0	1238.5	1203.9	1183.2	1164.9	1156.5
20°	1461.4	1422.3	1366.6	1305.6	1246.2	1196.6	1168.7	1146.1	1123.5	1110.8	1101.7
22.5°	1418.7	1368.7	1304.0	1238.2	1178.7	1139.9	1116.3	1093.2	1074.8	1062.6	1050.6
25°	1347.1	1281.6	1213.1	1137.8	1097.2	1063.4	1037.7	1018.9	1007.7	991.8	985.8
27.5°	1273.5	1194.1	1118.6	1068.0	1025.7	994.7	972.4	958.3	944.0	933.9	926.0
30°	1216.8	1136.3	1068.6	1020.4	977.5	952.0	933.9	917.4	906.1	897.8	891.7
32.5°	1160.8	1080.3	1023.4	971.7	937.8	912.9	893.5	881.2	872.3	861.7	858.0
35°	1079.9	1008.4	958.8	912.1	877.4	854.9	839.8	827.1	819.5	816.5	814.3
37.5°	1002.1	943.5	890.1	851.9	821.0	803.2	785.5	779.2	774.0	768.6	771.1
40°	952.7	897.8	850.4	809.7	784.9	765.3	754.8	747.2	742.7	742.7	742.7
42.5°	909.9	856.2	810.0	773.6	748.8	732.3	720.5	714.2	712.7	712.1	715.7
45°	843.6	793.9	747.2	717.2	696.1	679.6	672.8	667.5	667.5	670.5	671.3
47.5°	777.8	731.3	693.8	660.2	640.8	630.5	624.6	621.9	622.2	625.2	628.7
50°	737.4	691.5	654.7	624.6	606.5	596.7	591.4	590.0	591.4	591.4	596.7
52.5°	693.5	652.4	616.1	590.9	570.4	561.3	558.4	556.3	557.1	559.6	561.8
55°	629.1	592.2	557.6	533.6	518.5	512.5	505.7	506.4	504.9	506.4	506.4
57.5°	564.6	531.4	499.3	480.1	466.8	458.2	450.7	452.9	450.6	450.3	449.1
60°	523.0	486.9	461.3	444.0	429.0	421.4	414.6	416.1	413.9	412.4	409.3
62.5°	477.9	447.8	423.4	406.7	394.6	385.9	379.1	377.6	372.4	367.2	360.6
65°	412.4	387.6	365.7	350.0	338.7	331.9	326.6	322.1	310.8	298.8	292.8
67.5°	348.7	330.8	310.5	297.1	287.9	279.1	269.0	261.3	250.7	244.1	240.3
70°	307.7	290.5	273.1	260.3	250.6	242.3	231.0	225.7	218.2	215.2	211.5
72.5°	268.6	252.5	236.5	224.9	214.4	208.0	199.2	193.9	190.6	189.4	185.6
75°	209.2	196.4	184.4	173.8	165.6	161.1	157.3	153.5	152.0	145.2	141.5
77.5°	152.6	144.2	136.7	129.1	123.3	120.3	113.0	108.7	106.1	102.9	102.2
80°	118.9	112.9	105.4	100.9	92.6	89.5	86.5	85.8	85.0	84.3	83.5
82.5°	89.4	83.4	75.9	73.1	70.9	69.1	67.3	66.5	65.8	66.3	66.1
85°	45.1	42.1	42.1	41.4	40.6	39.9	39.1	39.1	38.4	39.1	38.4
87.5°	16.6	15.9	17.1	15.8	16.9	17.2	16.4	16.6	17.4	16.4	16.4
90°	7.5	7.5	13.2	13.2	15.1	17.0	16.0	17.0	17.9	18.9	18.9
92.5°	49.7	69.3	117.1	190.1	261.2	298.5	248.6	184.8	139.1	110.7	91.8
95°	78.1	117.6	199.4	353.8	578.7	766.9	788.5	697.2	551.4	425.3	334.0
97.5°	94.4	127.6	190.7	318.0	541.6	807.7	990.6	1030.2	975.9	883.9	785.7
100°	107.3	137.4	192.9	299.3	491.2	756.5	997.4	1134.8	1153.6	1107.5	1037.8
102.5°	121.6	150.1	200.4	294.0	457.3	692.6	940.9	1129.5	1222.9	1236.2	1207.2
105°	145.8	173.1	218.3	296.4	428.1	617.3	838.4	1053.9	1216.6	1309.8	1348.4
107.5°	170.9	197.7	239.2	310.3	422.8	575.1	755.5	946.4	1119.7	1250.9	1334.8
110°	188.2	213.6	255.0	320.8	424.3	560.8	714.2	881.7	1044.4	1180.9	1284.4



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.7	230.2	270.0	332.2	428.9	554.0	690.9	834.2	978.2	1107.1	1210.6
115°	230.5	255.9	293.6	350.1	437.5	550.4	669.0	786.6	902.4	1012.5	1102.8
117.5°	254.2	280.6	316.3	368.3	446.8	549.5	659.2	763.3	859.1	945.7	1022.3
120°	270.0	296.4	332.2	381.1	453.6	549.5	653.9	752.7	840.3	915.6	982.3
122.5°	285.9	311.4	347.2	393.1	460.3	548.7	647.9	743.8	828.2	896.7	955.3
125°	307.6	334.0	367.9	411.2	470.5	547.6	638.0	728.3	809.2	874.1	925.9
127.5°	327.8	354.4	387.1	426.8	478.5	545.5	624.6	709.5	786.8	851.6	900.7
130°	340.6	367.9	399.9	436.6	484.6	544.8	616.3	694.5	768.7	832.7	882.6
132.5°	352.7	378.4	410.5	446.4	489.8	544.0	608.8	678.6	748.5	810.9	860.8
135°	369.8	394.3	425.3	459.2	497.8	542.9	597.5	656.8	717.9	775.3	822.4
137.5°	384.3	407.6	436.6	468.3	502.5	542.7	587.7	637.1	688.8	737.2	779.7
140°	393.3	415.9	444.1	474.2	506.2	542.0	582.5	625.8	670.0	712.3	751.8
142.5°	401.6	423.4	450.9	478.7	509.3	542.0	578.0	615.2	654.1	690.5	724.7
145°	413.1	433.8	458.3	483.6	511.0	540.1	570.2	600.3	632.4	660.5	686.9
147.5°	424.1	442.8	465.8	488.0	511.9	536.7	563.3	588.1	613.5	636.1	656.8
150°	430.9	448.8	469.6	490.2	511.9	534.4	558.0	580.6	602.2	621.0	638.0
152.5°	437.7	454.1	472.6	491.7	510.4	530.7	552.0	572.3	590.9	608.2	622.2
155°	447.0	461.1	477.0	493.0	508.1	525.1	542.9	559.9	575.0	589.0	600.3
157.5°	455.6	466.7	480.2	493.0	505.7	519.2	533.7	546.5	559.1	571.0	580.0
160°	460.1	470.5	481.7	493.0	503.4	514.7	527.0	538.2	548.6	558.9	566.5
162.5°	464.7	472.8	483.2	493.0	501.1	510.2	520.9	529.9	538.8	546.9	553.6
165°	469.6	475.1	483.6	491.2	496.8	503.4	511.0	518.5	524.1	530.7	535.4
167.5°	473.0	477.2	483.4	488.9	492.3	496.6	501.9	507.4	511.7	517.0	519.8
170°	475.1	478.0	482.7	487.4	489.3	492.1	495.9	500.6	503.4	507.2	510.0
172.5°	476.6	478.7	481.9	485.9	486.3	487.6	490.6	494.6	496.6	498.9	501.0
175°	478.9	478.9	480.8	483.6	482.7	482.7	484.6	486.4	487.4	489.3	489.3
177.5°	478.9	478.9	479.7	481.2	479.7	479.7	480.4	481.2	481.9	481.9	482.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1782.9	1784.1	1779.9	1778.7	1779.9	1784.1	1782.9	1786.5	1787.2	1792.0	1790.2
5°	1654.1	1652.6	1648.8	1649.5	1648.8	1652.6	1654.1	1660.1	1663.1	1675.2	1673.7
7.5°	1543.9	1538.0	1539.6	1533.7	1539.6	1538.0	1543.9	1549.4	1558.5	1564.0	1576.7
10°	1476.5	1468.2	1461.4	1455.4	1461.4	1468.2	1476.5	1479.5	1492.2	1498.3	1511.1
12.5°	1384.4	1377.2	1368.1	1369.9	1368.1	1377.2	1384.4	1397.6	1414.0	1426.6	1446.7
15°	1253.7	1242.5	1224.4	1226.6	1224.4	1242.5	1253.7	1263.5	1280.1	1308.6	1322.2
17.5°	1143.1	1143.2	1135.0	1136.9	1135.0	1143.2	1143.1	1156.5	1164.9	1183.2	1203.9
20°	1085.9	1080.6	1081.4	1079.1	1081.4	1080.6	1085.9	1101.7	1110.8	1123.5	1146.1
22.5°	1046.1	1039.7	1034.4	1029.7	1034.4	1039.7	1046.1	1050.6	1062.6	1074.8	1093.2
25°	979.0	974.5	967.8	966.3	967.8	974.5	979.0	985.8	991.8	1007.7	1018.9
27.5°	920.0	919.2	916.4	912.9	916.4	919.2	920.0	926.0	933.9	944.0	958.3
30°	885.7	884.2	882.7	880.4	882.7	884.2	885.7	891.7	897.8	906.1	917.4
32.5°	855.1	854.1	852.6	852.8	852.6	854.1	855.1	858.0	861.7	872.3	881.2
35°	811.2	810.5	809.0	808.2	809.0	810.5	811.2	814.3	816.5	819.5	827.1
37.5°	770.3	772.2	771.4	771.2	771.4	772.2	770.3	771.1	768.6	774.0	779.2
40°	742.0	742.7	744.2	743.5	744.2	742.7	742.0	742.7	742.7	742.7	747.2
42.5°	718.5	718.7	720.8	718.2	720.8	718.7	718.5	715.7	712.1	712.7	714.2
45°	676.6	681.1	680.3	680.3	680.3	681.1	676.6	671.3	670.5	667.5	667.5
47.5°	630.7	634.5	635.6	635.5	635.6	634.5	630.7	628.7	625.2	622.2	621.9
50°	600.5	599.0	601.2	600.5	601.2	599.0	600.5	596.7	591.4	591.4	590.0
52.5°	563.8	564.1	563.9	563.2	563.9	564.1	563.8	561.8	559.6	557.1	556.3
55°	507.2	507.9	506.4	507.2	506.4	507.9	507.2	506.4	506.4	504.9	506.4
57.5°	445.8	442.1	443.7	441.9	443.7	442.1	445.8	449.1	450.3	450.6	452.9
60°	401.9	395.9	394.4	391.3	394.4	395.9	401.9	409.3	412.4	413.9	416.1
62.5°	352.5	348.3	343.2	345.5	343.2	348.3	352.5	360.6	367.2	372.4	377.6
65°	286.7	283.7	281.4	284.5	281.4	283.7	286.7	292.8	298.8	310.8	322.1
67.5°	237.3	235.7	235.7	234.2	235.7	235.7	237.3	240.3	244.1	250.7	261.3
70°	211.5	209.2	209.2	207.7	209.2	209.2	211.5	211.5	215.2	218.2	225.7
72.5°	184.9	182.8	183.3	182.4	183.3	182.8	184.9	185.6	189.4	190.6	193.9
75°	137.0	133.2	133.2	133.9	133.2	133.2	137.0	141.5	145.2	152.0	153.5
77.5°	102.2	101.4	102.5	101.1	102.5	101.4	102.2	102.2	102.9	106.1	108.7
80°	83.5	82.8	82.0	84.3	82.0	82.8	83.5	83.5	84.3	85.0	85.8
82.5°	64.8	64.8	64.6	67.4	64.6	64.8	64.8	66.1	66.3	65.8	66.5
85°	39.1	37.6	39.1	37.6	39.1	37.6	39.1	38.4	39.1	38.4	39.1
87.5°	17.8	17.3	16.6	17.2	16.6	17.3	17.8	16.4	16.4	17.4	16.6
90°	19.8	20.7	19.8	19.8	19.8	20.7	19.8	18.9	18.9	17.9	17.0
92.5°	80.8	75.7	72.5	72.5	72.5	75.7	80.8	91.8	110.7	139.1	184.8
95°	287.9	258.7	241.9	229.6	241.9	258.7	287.9	334.0	425.3	551.4	697.2
97.5°	718.1	661.5	633.3	613.7	633.3	661.5	718.1	785.7	883.9	975.9	1030.2
100°	956.0	898.6	870.3	862.9	870.3	898.6	956.0	1037.8	1107.5	1153.6	1134.8
102.5°	1157.0	1115.4	1085.7	1079.7	1085.7	1115.4	1157.0	1207.2	1236.2	1222.9	1129.5
105°	1350.3	1342.7	1329.6	1323.9	1329.6	1342.7	1350.3	1348.4	1309.8	1216.6	1053.9
107.5°	1381.3	1402.8	1412.2	1414.7	1412.2	1402.8	1381.3	1334.8	1250.9	1119.7	946.4
110°	1351.2	1390.7	1407.7	1416.2	1407.7	1390.7	1351.2	1284.4	1180.9	1044.4	881.7



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1286.5	1334.3	1358.0	1371.7	1358.0	1334.3	1286.5	1210.6	1107.1	978.2	834.2
115°	1177.1	1233.6	1263.7	1271.2	1263.7	1233.6	1177.1	1102.8	1012.5	902.4	786.6
117.5°	1085.7	1133.1	1163.6	1169.4	1163.6	1133.1	1085.7	1022.3	945.7	859.1	763.3
120°	1035.9	1077.4	1101.8	1112.2	1101.8	1077.4	1035.9	982.3	915.6	840.3	752.7
122.5°	1000.6	1035.9	1056.7	1067.1	1056.7	1035.9	1000.6	955.3	896.7	828.2	743.8
125°	963.6	990.8	1008.7	1014.4	1008.7	990.8	963.6	925.9	874.1	809.2	728.3
127.5°	938.5	962.8	977.8	983.4	977.8	962.8	938.5	900.7	851.6	786.8	709.5
130°	921.1	944.7	959.8	965.4	959.8	944.7	921.1	882.6	832.7	768.7	694.5
132.5°	898.6	925.1	939.4	945.1	939.4	925.1	898.6	860.8	810.9	748.5	678.6
135°	860.1	886.4	901.4	907.1	901.4	886.4	860.1	822.4	775.3	717.9	656.8
137.5°	814.8	840.8	853.3	860.1	853.3	840.8	814.8	779.7	737.2	688.8	637.1
140°	784.8	805.5	818.6	826.1	818.6	805.5	784.8	751.8	712.3	670.0	625.8
142.5°	753.8	773.1	784.8	790.0	784.8	773.1	753.8	724.7	690.5	654.1	615.2
145°	710.4	726.4	735.8	740.6	735.8	726.4	710.4	686.9	660.5	632.4	600.3
147.5°	674.1	687.9	695.0	696.6	695.0	687.9	674.1	656.8	636.1	613.5	588.1
150°	653.0	665.2	670.9	671.8	670.9	665.2	653.0	638.0	621.0	602.2	580.6
152.5°	635.0	644.9	648.3	649.2	648.3	644.9	635.0	622.2	608.2	590.9	572.3
155°	609.7	617.3	620.1	620.1	620.1	617.3	609.7	600.3	589.0	575.0	559.9
157.5°	587.1	592.8	594.5	594.5	594.5	592.8	587.1	580.0	571.0	559.1	546.5
160°	572.1	577.8	578.7	578.7	578.7	577.8	572.1	566.5	558.9	548.6	538.2
162.5°	557.8	563.5	564.4	563.6	564.4	563.5	557.8	553.6	546.9	538.8	529.9
165°	539.1	542.9	542.0	541.0	542.0	542.9	539.1	535.4	530.7	524.1	518.5
167.5°	521.7	524.1	524.0	523.2	524.0	524.1	521.7	519.8	517.0	511.7	507.4
170°	511.9	512.8	511.9	511.9	511.9	512.8	511.9	510.0	507.2	503.4	500.6
172.5°	502.1	503.0	502.1	500.6	502.1	503.0	502.1	501.0	498.9	496.6	494.6
175°	489.3	491.2	489.3	487.4	489.3	491.2	489.3	489.3	489.3	487.4	486.4
177.5°	481.9	482.7	481.2	479.7	481.2	482.7	481.9	482.7	481.9	481.9	481.2
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1786.5	1790.7	1800.4	1811.2	1820.2	1828.1	1834.1	1842.5	1850.3	1861.1	1871.4
5°	1678.2	1688.7	1703.7	1721.8	1744.4	1759.4	1778.2	1794.8	1818.9	1843.0	1866.3
7.5°	1583.0	1594.6	1616.7	1641.7	1668.5	1693.2	1715.5	1744.6	1776.6	1811.7	1850.8
10°	1521.6	1534.5	1560.8	1589.3	1621.0	1645.0	1675.2	1709.8	1745.9	1788.8	1836.9
12.5°	1466.2	1478.5	1510.1	1539.4	1572.2	1598.6	1633.6	1668.9	1717.0	1763.5	1818.3
15°	1358.3	1390.7	1426.8	1461.4	1500.5	1533.0	1575.1	1611.2	1657.1	1722.6	1785.0
17.5°	1238.5	1273.0	1317.9	1371.3	1423.8	1463.9	1506.6	1551.4	1606.1	1672.9	1745.0
20°	1168.7	1196.6	1246.2	1305.6	1366.6	1422.3	1461.4	1511.1	1567.5	1639.7	1714.3
22.5°	1116.3	1139.9	1178.7	1238.2	1304.0	1368.7	1418.7	1467.7	1530.2	1602.4	1683.6
25°	1037.7	1063.4	1097.2	1137.8	1213.1	1281.6	1347.1	1403.4	1469.7	1541.9	1632.2
27.5°	972.4	994.7	1025.7	1068.0	1118.6	1194.1	1273.5	1337.8	1405.7	1483.3	1573.7
30°	933.9	952.0	977.5	1020.4	1068.6	1136.3	1216.8	1292.1	1360.6	1441.1	1535.2
32.5°	893.5	912.9	937.8	971.7	1023.4	1080.3	1160.8	1243.3	1316.1	1398.4	1490.6
35°	839.8	854.9	877.4	912.1	958.8	1008.4	1079.9	1164.9	1241.7	1329.7	1417.8
37.5°	785.5	803.2	821.0	851.9	890.1	943.5	1002.1	1088.9	1173.9	1254.3	1340.3
40°	754.8	765.3	784.9	809.7	850.4	897.8	952.7	1037.7	1122.8	1202.6	1289.1
42.5°	720.5	732.3	748.8	773.6	810.0	856.2	909.9	983.5	1072.2	1149.6	1228.3
45°	672.8	679.6	696.1	717.2	747.2	793.9	843.6	909.1	992.6	1066.3	1135.6
47.5°	624.6	630.5	640.8	660.2	693.8	731.3	777.8	836.5	909.8	983.5	1042.1
50°	591.4	596.7	606.5	624.6	654.7	691.5	737.4	790.1	855.6	926.3	975.2
52.5°	558.4	561.3	570.4	590.9	616.1	652.4	693.5	742.0	803.2	862.0	911.4
55°	505.7	512.5	518.5	533.6	557.6	592.2	629.1	675.0	722.5	772.1	814.3
57.5°	450.7	458.2	466.8	480.1	499.3	531.4	564.6	601.7	642.2	683.4	718.8
60°	414.6	421.4	429.0	444.0	461.3	486.9	523.0	555.3	586.3	623.9	659.2
62.5°	379.1	385.9	394.6	406.7	423.4	447.8	477.9	506.1	538.1	570.9	597.2
65°	326.6	331.9	338.7	350.0	365.7	387.6	412.4	434.2	462.8	486.9	511.0
67.5°	269.0	279.1	287.9	297.1	310.5	330.8	348.7	369.7	389.1	407.0	429.0
70°	231.0	242.3	250.6	260.3	273.1	290.5	307.7	322.1	337.9	355.2	374.8
72.5°	199.2	208.0	214.4	224.9	236.5	252.5	268.6	280.5	293.3	305.2	324.2
75°	157.3	161.1	165.6	173.8	184.4	196.4	209.2	219.7	227.2	237.8	251.4
77.5°	113.0	120.3	123.3	129.1	136.7	144.2	152.6	161.5	168.7	172.5	182.9
80°	86.5	89.5	92.6	100.9	105.4	112.9	118.9	127.1	130.2	133.9	143.7
82.5°	67.3	69.1	70.9	73.1	75.9	83.4	89.4	94.6	97.6	99.1	106.4
85°	39.1	39.9	40.6	41.4	42.1	42.1	45.1	48.9	54.2	54.2	56.5
87.5°	16.4	17.2	16.9	15.8	17.1	15.9	16.6	16.4	18.0	19.2	20.6
90°	16.0	17.0	15.1	13.2	13.2	7.5	7.5	6.6	5.7	2.8	0.9
92.5°	248.6	298.5	261.2	190.1	117.1	69.3	49.7	35.9	24.5	15.6	10.7
95°	788.5	766.9	578.7	353.8	199.4	117.6	78.1	55.5	43.3	33.8	31.0
97.5°	990.6	807.7	541.6	318.0	190.7	127.6	94.4	75.1	63.8	55.7	55.7
100°	997.4	756.5	491.2	299.3	192.9	137.4	107.3	89.4	78.1	71.5	71.5
102.5°	940.9	692.6	457.3	294.0	200.4	150.1	121.6	104.4	93.9	88.0	86.5
105°	838.4	617.3	428.1	296.4	218.3	173.1	145.8	128.9	117.6	112.9	110.1
107.5°	755.5	575.1	422.8	310.3	239.2	197.7	170.9	154.7	142.6	138.0	136.1
110°	714.2	560.8	424.3	320.8	255.0	213.6	188.2	171.3	159.9	155.2	153.4



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	690.9	554.0	428.9	332.2	270.0	230.2	204.7	187.8	177.3	171.8	169.9
115°	669.0	550.4	437.5	350.1	293.6	255.9	230.5	212.6	203.2	196.6	193.9
117.5°	659.2	549.5	446.8	368.3	316.3	280.6	254.2	237.5	227.2	221.3	218.7
120°	653.9	549.5	453.6	381.1	332.2	296.4	270.0	254.0	243.7	237.1	235.3
122.5°	647.9	548.7	460.3	393.1	347.2	311.4	285.9	268.3	258.7	252.1	250.3
125°	638.0	547.6	470.5	411.2	367.9	334.0	307.6	289.8	279.5	273.8	270.0
127.5°	624.6	545.5	478.5	426.8	387.1	354.4	327.8	309.2	297.4	290.6	287.6
130°	616.3	544.8	484.6	436.6	399.9	367.9	340.6	322.7	308.6	301.1	297.4
132.5°	608.8	544.0	489.8	446.4	410.5	378.4	352.7	333.3	319.9	310.1	307.1
135°	597.5	542.9	497.8	459.2	425.3	394.3	369.8	350.1	334.0	324.6	320.8
137.5°	587.7	542.7	502.5	468.3	436.6	407.6	384.3	363.7	348.6	338.2	334.6
140°	582.5	542.0	506.2	474.2	444.1	415.9	393.3	373.5	357.6	347.2	344.4
142.5°	578.0	542.0	509.3	478.7	450.9	423.4	401.6	382.6	367.3	357.8	355.0
145°	570.2	540.1	511.0	483.6	458.3	433.8	413.1	395.2	382.0	372.6	369.8
147.5°	563.3	536.7	511.9	488.0	465.8	442.8	424.1	409.3	395.8	387.5	386.5
150°	558.0	534.4	511.9	490.2	469.6	448.8	430.9	416.9	405.6	398.0	397.1
152.5°	552.0	530.7	510.4	491.7	472.6	454.1	437.7	425.1	414.6	407.1	406.9
155°	542.9	525.1	508.1	493.0	477.0	461.1	447.0	436.6	427.2	421.5	420.6
157.5°	533.7	519.2	505.7	493.0	480.2	466.7	455.6	446.6	439.2	433.9	433.9
160°	527.0	514.7	503.4	493.0	481.7	470.5	460.1	452.6	446.0	442.2	442.2
162.5°	520.9	510.2	501.1	493.0	483.2	472.8	464.7	457.9	452.0	449.0	449.8
165°	511.0	503.4	496.8	491.2	483.6	475.1	469.6	464.9	460.1	458.3	458.3
167.5°	501.9	496.6	492.3	488.9	483.4	477.2	473.0	470.3	466.7	465.8	466.7
170°	495.9	492.1	489.3	487.4	482.7	478.0	475.1	473.3	470.5	469.6	470.5
172.5°	490.6	487.6	486.3	485.9	481.9	478.7	476.6	475.5	473.4	473.3	474.2
175°	484.6	482.7	482.7	483.6	480.8	478.9	478.9	478.0	477.0	477.0	478.0
177.5°	480.4	479.7	479.7	481.2	479.7	478.9	478.9	478.9	478.2	478.9	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1879.2	1884.6	1890.6	1902.1	1911.8	1916.0	1924.4	1930.4	1928.6	1937.0	1951.4
5°	1886.6	1907.0	1930.2	1954.4	1981.4	2004.0	2022.0	2040.1	2054.5	2071.7	2097.3
7.5°	1885.4	1921.6	1960.8	2004.0	2048.4	2086.8	2122.3	2158.4	2190.5	2225.5	2271.4
10°	1880.6	1928.7	1977.6	2034.1	2090.6	2144.0	2192.2	2237.3	2280.2	2326.1	2384.1
12.5°	1875.2	1930.5	1989.7	2057.6	2127.9	2192.2	2248.7	2313.8	2367.5	2426.7	2493.6
15°	1851.2	1925.7	2006.3	2094.3	2178.6	2265.1	2342.6	2422.4	2496.9	2567.7	2651.9
17.5°	1823.8	1909.8	2004.8	2108.8	2210.1	2315.3	2407.3	2507.7	2583.9	2678.9	2757.1
20°	1801.6	1894.1	1995.7	2112.3	2227.5	2344.1	2445.7	2548.1	2633.8	2729.4	2828.8
22.5°	1774.4	1876.0	1986.1	2107.0	2227.5	2354.9	2467.4	2569.2	2675.4	2783.0	2885.4
25°	1730.8	1836.2	1952.9	2085.3	2223.7	2353.9	2474.4	2600.8	2715.2	2831.8	2923.6
27.5°	1677.3	1787.9	1910.8	2047.5	2189.6	2322.9	2464.7	2599.4	2714.5	2826.8	2906.9
30°	1634.5	1751.1	1869.3	2007.8	2155.2	2298.2	2450.2	2584.9	2706.1	2807.0	2852.1
32.5°	1590.5	1701.2	1823.0	1963.2	2114.3	2268.1	2418.9	2556.6	2668.8	2729.3	2730.5
35°	1514.1	1618.0	1744.4	1882.1	2037.1	2204.1	2356.9	2492.4	2560.9	2566.2	2492.4
37.5°	1430.7	1526.0	1645.3	1783.2	1952.9	2119.1	2275.2	2365.5	2388.4	2311.8	2175.4
40°	1371.1	1459.2	1574.3	1715.8	1884.3	2056.0	2198.2	2264.4	2240.3	2116.1	1964.1
42.5°	1308.5	1390.5	1501.5	1641.2	1810.3	1983.7	2104.9	2140.3	2076.5	1933.2	1755.2
45°	1206.4	1281.6	1391.5	1532.2	1694.7	1857.3	1949.1	1931.0	1824.9	1654.8	1455.4
47.5°	1099.9	1172.6	1271.5	1401.7	1568.1	1708.4	1770.6	1716.1	1565.1	1378.0	1215.8
50°	1029.4	1104.0	1195.0	1319.2	1471.2	1606.7	1646.5	1563.8	1395.9	1216.1	1067.1
52.5°	960.3	1023.9	1113.1	1233.1	1378.5	1492.9	1514.1	1418.7	1245.5	1084.2	952.1
55°	854.9	912.9	988.1	1101.0	1226.6	1323.7	1312.4	1189.8	1032.5	894.8	790.9
57.5°	753.0	796.6	866.2	971.9	1082.3	1147.5	1106.3	1001.6	855.1	742.3	654.7
60°	685.6	726.2	790.9	883.4	980.5	1017.4	982.8	869.2	753.3	650.2	576.5
62.5°	621.7	657.6	713.2	799.2	877.6	899.5	862.4	763.2	658.7	570.7	509.6
65°	529.0	562.1	609.5	670.5	724.7	735.2	711.1	609.5	530.6	456.8	414.6
67.5°	444.9	466.6	503.6	556.3	585.0	591.2	544.7	480.9	411.2	365.9	334.1
70°	388.3	403.3	438.0	466.6	489.9	490.7	447.8	396.6	343.2	306.3	283.0
72.5°	333.6	348.0	374.2	393.7	411.6	405.8	366.5	326.1	283.0	255.1	237.8
75°	257.4	270.1	283.7	292.8	292.8	285.2	256.7	226.5	201.7	185.1	179.8
77.5°	187.1	197.7	202.2	200.8	198.0	186.3	168.2	148.5	139.7	131.9	127.9
80°	146.8	151.3	152.8	149.0	144.5	130.9	118.9	110.7	102.4	99.3	97.8
82.5°	108.8	112.7	108.8	109.9	99.9	88.8	82.2	79.4	75.9	74.6	73.1
85°	58.0	57.2	55.7	51.9	45.1	43.6	42.9	42.1	40.6	41.4	39.9
87.5°	20.5	19.2	17.0	16.6	16.6	16.5	17.1	17.4	17.8	17.1	18.5
90°	2.8	5.7	6.6	7.5	7.5	13.2	13.2	15.1	17.0	16.0	17.0
92.5°	15.6	24.5	35.9	49.7	69.3	117.1	190.1	261.2	298.5	248.6	184.8
95°	33.8	43.3	55.5	78.1	117.6	199.4	353.8	578.7	766.9	788.5	697.2
97.5°	55.7	63.8	75.1	94.4	127.6	190.7	318.0	541.6	807.7	990.6	1030.2
100°	71.5	78.1	89.4	107.3	137.4	192.9	299.3	491.2	756.5	997.4	1134.8
102.5°	88.0	93.9	104.4	121.6	150.1	200.4	294.0	457.3	692.6	940.9	1129.5
105°	112.9	117.6	128.9	145.8	173.1	218.3	296.4	428.1	617.3	838.4	1053.9
107.5°	138.0	142.6	154.7	170.9	197.7	239.2	310.3	422.8	575.1	755.5	946.4
110°	155.2	159.9	171.3	188.2	213.6	255.0	320.8	424.3	560.8	714.2	881.7



TEST NUMBER: P333005-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.8	177.3	187.8	204.7	230.2	270.0	332.2	428.9	554.0	690.9	834.2
115°	196.6	203.2	212.6	230.5	255.9	293.6	350.1	437.5	550.4	669.0	786.6
117.5°	221.3	227.2	237.5	254.2	280.6	316.3	368.3	446.8	549.5	659.2	763.3
120°	237.1	243.7	254.0	270.0	296.4	332.2	381.1	453.6	549.5	653.9	752.7
122.5°	252.1	258.7	268.3	285.9	311.4	347.2	393.1	460.3	548.7	647.9	743.8
125°	273.8	279.5	289.8	307.6	334.0	367.9	411.2	470.5	547.6	638.0	728.3
127.5°	290.6	297.4	309.2	327.8	354.4	387.1	426.8	478.5	545.5	624.6	709.5
130°	301.1	308.6	322.7	340.6	367.9	399.9	436.6	484.6	544.8	616.3	694.5
132.5°	310.1	319.9	333.3	352.7	378.4	410.5	446.4	489.8	544.0	608.8	678.6
135°	324.6	334.0	350.1	369.8	394.3	425.3	459.2	497.8	542.9	597.5	656.8
137.5°	338.2	348.6	363.7	384.3	407.6	436.6	468.3	502.5	542.7	587.7	637.1
140°	347.2	357.6	373.5	393.3	415.9	444.1	474.2	506.2	542.0	582.5	625.8
142.5°	357.8	367.3	382.6	401.6	423.4	450.9	478.7	509.3	542.0	578.0	615.2
145°	372.6	382.0	395.2	413.1	433.8	458.3	483.6	511.0	540.1	570.2	600.3
147.5°	387.5	395.8	409.3	424.1	442.8	465.8	488.0	511.9	536.7	563.3	588.1
150°	398.0	405.6	416.9	430.9	448.8	469.6	490.2	511.9	534.4	558.0	580.6
152.5°	407.1	414.6	425.1	437.7	454.1	472.6	491.7	510.4	530.7	552.0	572.3
155°	421.5	427.2	436.6	447.0	461.1	477.0	493.0	508.1	525.1	542.9	559.9
157.5°	433.9	439.2	446.6	455.6	466.7	480.2	493.0	505.7	519.2	533.7	546.5
160°	442.2	446.0	452.6	460.1	470.5	481.7	493.0	503.4	514.7	527.0	538.2
162.5°	449.0	452.0	457.9	464.7	472.8	483.2	493.0	501.1	510.2	520.9	529.9
165°	458.3	460.1	464.9	469.6	475.1	483.6	491.2	496.8	503.4	511.0	518.5
167.5°	465.8	466.7	470.3	473.0	477.2	483.4	488.9	492.3	496.6	501.9	507.4
170°	469.6	470.5	473.3	475.1	478.0	482.7	487.4	489.3	492.1	495.9	500.6
172.5°	473.3	473.4	475.5	476.6	478.7	481.9	485.9	486.3	487.6	490.6	494.6
175°	477.0	477.0	478.0	478.9	478.9	480.8	483.6	482.7	482.7	484.6	486.4
177.5°	478.9	478.2	478.9	478.9	478.9	479.7	481.2	479.7	479.7	480.4	481.2
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P333005-830

CATALOG NUMBER: S124RDIP-S1195D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1959.3	1961.7	1963.5	1969.5	1970.1	1975.6	1970.1
5°	2121.4	2131.9	2148.5	2165.0	2166.5	2177.1	2158.2
7.5°	2303.2	2327.6	2342.8	2369.6	2380.1	2386.7	2375.9
10°	2428.5	2451.0	2490.9	2510.5	2530.1	2533.0	2524.0
12.5°	2549.5	2585.3	2616.7	2653.7	2652.9	2679.4	2669.7
15°	2710.7	2747.5	2791.2	2832.5	2847.6	2847.6	2859.7
17.5°	2825.6	2893.2	2938.4	2970.9	3006.3	3012.6	3008.3
20°	2903.3	2976.3	3024.4	3066.6	3090.7	3097.5	3097.5
22.5°	2961.1	3023.2	3070.2	3108.1	3128.0	3135.9	3133.6
25°	3001.1	3054.5	3083.2	3094.5	3099.6	3098.2	3083.9
27.5°	2946.3	2943.9	2925.8	2891.2	2865.2	2849.4	2831.3
30°	2841.6	2802.5	2757.3	2707.6	2643.6	2594.7	2579.6
32.5°	2685.7	2597.7	2521.3	2438.5	2369.7	2320.8	2300.4
35°	2384.1	2244.9	2131.2	2031.8	1959.6	1914.5	1899.4
37.5°	2026.1	1891.4	1750.7	1654.4	1594.5	1548.9	1531.8
40°	1798.6	1651.8	1529.2	1438.9	1377.1	1332.8	1332.0
42.5°	1590.8	1450.8	1335.3	1270.3	1203.7	1174.4	1174.2
45°	1302.6	1190.5	1092.7	1041.5	1001.6	977.5	970.7
47.5°	1078.6	985.8	920.7	879.9	847.3	832.0	822.1
50°	952.7	871.5	819.5	784.1	766.1	746.5	745.0
52.5°	847.9	782.3	741.9	713.1	690.2	678.4	678.8
55°	712.7	660.7	632.2	610.3	592.2	583.2	579.5
57.5°	600.4	561.4	540.6	520.6	512.9	505.9	503.9
60°	530.6	504.2	484.7	468.8	457.5	455.2	454.5
62.5°	472.8	445.2	431.7	419.4	411.2	407.7	406.3
65°	389.8	369.5	357.4	347.7	344.7	339.4	338.7
67.5°	314.2	302.1	294.1	287.3	283.2	283.0	283.0
70°	267.9	261.1	254.4	250.6	248.4	246.9	246.9
72.5°	228.2	223.2	217.6	215.7	215.2	213.7	213.1
75°	173.8	168.5	169.3	165.6	162.6	158.8	156.6
77.5°	123.3	119.5	118.8	118.3	115.7	115.3	116.5
80°	95.6	91.8	91.0	91.8	91.0	88.8	88.8
82.5°	72.7	69.6	68.8	68.3	67.6	68.3	67.1
85°	39.1	37.6	37.6	37.6	39.1	38.4	37.6
87.5°	17.4	17.0	17.6	17.2	17.3	16.6	17.2
90°	17.9	18.9	18.9	19.8	20.7	19.8	19.8
92.5°	139.1	110.7	91.8	80.8	75.7	72.5	72.5
95°	551.4	425.3	334.0	287.9	258.7	241.9	229.6
97.5°	975.9	883.9	785.7	718.1	661.5	633.3	613.7
100°	1153.6	1107.5	1037.8	956.0	898.6	870.3	862.9
102.5°	1222.9	1236.2	1207.2	1157.0	1115.4	1085.7	1079.7
105°	1216.6	1309.8	1348.4	1350.3	1342.7	1329.6	1323.9
107.5°	1119.7	1250.9	1334.8	1381.3	1402.8	1412.2	1414.7
110°	1044.4	1180.9	1284.4	1351.2	1390.7	1407.7	1416.2



TEST NUMBER: P333005-830

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	978.2	1107.1	1210.6	1286.5	1334.3	1358.0	1371.7
115°	902.4	1012.5	1102.8	1177.1	1233.6	1263.7	1271.2
117.5°	859.1	945.7	1022.3	1085.7	1133.1	1163.6	1169.4
120°	840.3	915.6	982.3	1035.9	1077.4	1101.8	1112.2
122.5°	828.2	896.7	955.3	1000.6	1035.9	1056.7	1067.1
125°	809.2	874.1	925.9	963.6	990.8	1008.7	1014.4
127.5°	786.8	851.6	900.7	938.5	962.8	977.8	983.4
130°	768.7	832.7	882.6	921.1	944.7	959.8	965.4
132.5°	748.5	810.9	860.8	898.6	925.1	939.4	945.1
135°	717.9	775.3	822.4	860.1	886.4	901.4	907.1
137.5°	688.8	737.2	779.7	814.8	840.8	853.3	860.1
140°	670.0	712.3	751.8	784.8	805.5	818.6	826.1
142.5°	654.1	690.5	724.7	753.8	773.1	784.8	790.0
145°	632.4	660.5	686.9	710.4	726.4	735.8	740.6
147.5°	613.5	636.1	656.8	674.1	687.9	695.0	696.6
150°	602.2	621.0	638.0	653.0	665.2	670.9	671.8
152.5°	590.9	608.2	622.2	635.0	644.9	648.3	649.2
155°	575.0	589.0	600.3	609.7	617.3	620.1	620.1
157.5°	559.1	571.0	580.0	587.1	592.8	594.5	594.5
160°	548.6	558.9	566.5	572.1	577.8	578.7	578.7
162.5°	538.8	546.9	553.6	557.8	563.5	564.4	563.6
165°	524.1	530.7	535.4	539.1	542.9	542.0	541.0
167.5°	511.7	517.0	519.8	521.7	524.1	524.0	523.2
170°	503.4	507.2	510.0	511.9	512.8	511.9	511.9
172.5°	496.6	498.9	501.0	502.1	503.0	502.1	500.6
175°	487.4	489.3	489.3	489.3	491.2	489.3	487.4
177.5°	481.9	481.9	482.7	481.9	482.7	481.2	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9

(END OF REPORT)