

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: P332981-840

Luminaire Tested: **S124RDIP-S1020D1205U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332981-840
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-S1020D1205U840-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8727.3 lumens
Efficiency: N/A
Efficacy: 133.4 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

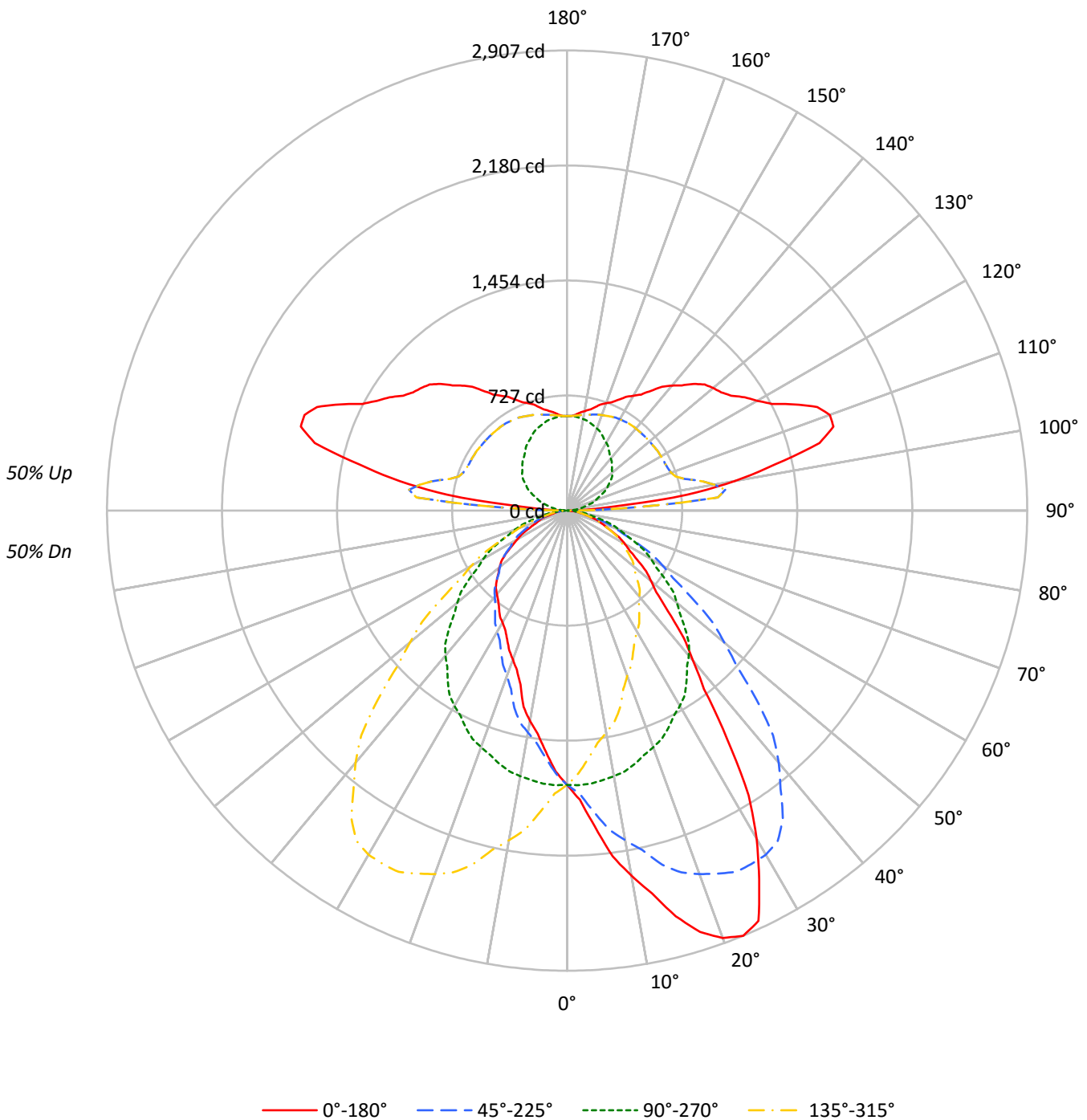
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	91	87	84	81	74	72	70	62	60	59	51	49	48	43
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37
3	82	73	66	60	76	68	62	57	58	53	49	49	45	43	40	38	36	32
4	75	65	57	51	69	60	54	48	52	47	43	44	40	37	36	33	31	28
5	69	58	50	44	64	54	47	42	46	41	37	39	35	32	33	30	27	24
6	64	52	44	39	59	49	42	37	42	36	32	36	32	28	30	27	24	21
7	59	47	39	34	55	44	37	32	38	33	29	33	28	25	27	24	22	19
8	55	43	35	30	51	40	33	29	35	29	26	30	26	23	25	22	20	17
9	51	39	32	27	47	37	30	26	32	27	23	28	23	20	23	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13988	13988	13988	13988
5°	16226	14030	12400	14030
10°	19194	13969	11068	13969
15°	22172	13840	9510	13840
20°	24686	13662	8600	13662
25°	25483	13488	7985	13488
30°	22309	13276	7614	13276
35°	17366	12962	7389	12962
40°	13022	12603	7268	12603
45°	10282	12028	7205	12028
50°	8681	11362	6997	11362
55°	7567	10632	6622	10632
60°	6807	9875	5861	9875
65°	6002	9054	5041	9054
70°	5403	8207	4548	8207
75°	4529	7274	3877	7274
80°	3831	6197	3636	6197
85°	3233	4844	3233	4844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.9
10°-20°	506.4	5.8
20°-30°	792.1	9.1
30°-40°	880.6	10.1
40°-50°	781.3	9.0
50°-60°	608.8	7.0
60°-70°	398.6	4.6
70°-80°	196.0	2.2
80°-90°	51.7	0.6
90°-100°	431.4	4.9
100°-110°	897.9	10.3
110°-120°	804.2	9.2
120°-130°	676.5	7.8
130°-140°	564.1	6.5
140°-150°	430.9	4.9
150°-160°	302.9	3.5
160°-170°	178.2	2.0
170°-180°	58.0	0.7
0°-30°	1466.4	16.8
0°-40°	2347.0	26.9
0°-60°	3737.0	42.8
0°-90°	4383.3	50.2
90°-120°	2133.5	24.4
90°-150°	3805.0	43.6
90°-180°	4344.0	49.8
0°-180°	8727.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1733	1733	1733	1733	1733	
5°	2002	1731	1530	1731	2002	203
15°	2653	1656	1138	1656	2653	754
25°	2861	1514	896	1514	2861	1269
35°	1762	1315	750	1315	1762	1105
45°	901	1054	631	1054	901	713
55°	538	755	470	755	538	489
65°	314	474	264	474	314	316
75°	145	233	124	233	145	160
85°	35	52	35	52	35	40
90°	25	1	25	1	25	21
95°	286	39	286	39	286	444
105°	1651	137	1651	137	1651	1632
115°	1585	242	1585	242	1585	1574
125°	1265	337	1265	337	1265	1149
135°	1131	400	1131	400	1131	873
145°	924	461	924	461	924	585
155°	773	524	773	524	773	361
165°	675	572	675	572	675	193
175°	608	596	608	596	608	59
180°	597	597	597	597	597	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1827.7	1832.7	1827.7	1827.1	1821.6	1819.9	1817.7	1810.4	1797.0	1789.2	1790.8
5°	2002.3	2019.6	2009.9	2008.5	1993.2	1977.8	1968.0	1945.7	1922.0	1905.9	1892.6
7.5°	2204.1	2214.1	2208.1	2198.3	2173.4	2159.3	2136.7	2107.2	2064.7	2032.1	2002.4
10°	2341.5	2349.9	2347.1	2329.0	2310.8	2273.8	2252.8	2211.7	2157.9	2115.4	2075.5
12.5°	2476.7	2485.6	2461.0	2461.8	2427.5	2398.3	2365.1	2313.3	2251.2	2196.3	2146.5
15°	2652.9	2641.7	2641.7	2627.8	2589.3	2548.9	2514.7	2460.2	2382.0	2316.3	2247.3
17.5°	2790.9	2794.7	2789.0	2756.0	2725.9	2684.0	2621.3	2557.8	2485.2	2397.1	2326.4
20°	2873.5	2873.5	2867.2	2844.9	2805.8	2761.1	2693.4	2624.2	2532.1	2443.5	2363.9
22.5°	2907.0	2909.2	2901.8	2883.4	2848.2	2804.6	2746.9	2676.7	2581.8	2481.9	2383.4
25°	2860.9	2874.2	2875.6	2870.6	2860.2	2833.7	2784.1	2712.2	2627.1	2518.8	2412.7
27.5°	2626.7	2643.4	2658.1	2682.2	2714.3	2731.1	2733.3	2696.7	2622.4	2518.3	2411.5
30°	2393.2	2407.1	2452.6	2511.8	2557.9	2599.8	2636.2	2645.8	2604.0	2510.4	2398.0
32.5°	2134.0	2153.0	2198.4	2262.2	2338.9	2409.9	2491.4	2533.0	2531.9	2475.8	2371.8
35°	1762.1	1776.0	1818.0	1884.9	1977.1	2082.5	2211.7	2312.2	2380.6	2375.7	2312.2
37.5°	1421.1	1436.8	1479.1	1534.8	1624.2	1754.6	1879.7	2018.1	2144.7	2215.7	2194.4
40°	1235.7	1236.4	1277.6	1334.8	1418.6	1532.4	1668.5	1822.1	1963.1	2078.3	2100.6
42.5°	1089.3	1089.4	1116.7	1178.4	1238.8	1345.8	1475.8	1628.3	1793.3	1926.4	1985.6
45°	900.6	906.9	929.2	966.2	1013.7	1104.4	1208.4	1350.2	1535.2	1692.9	1791.4
47.5°	762.7	771.8	786.1	816.3	854.0	914.5	1000.6	1127.9	1278.4	1452.0	1592.1
50°	691.2	692.6	710.6	727.4	760.2	808.4	883.8	990.0	1128.1	1295.1	1450.7
52.5°	629.8	629.4	640.4	661.6	688.2	725.8	786.7	883.2	1005.8	1155.4	1316.1
55°	537.6	541.1	549.5	566.1	586.4	613.0	661.2	733.8	830.1	957.9	1103.8
57.5°	467.5	469.3	475.8	482.9	501.5	520.8	556.9	607.3	688.6	793.2	929.2
60°	421.6	422.3	424.4	434.9	449.6	467.8	492.2	534.7	603.2	698.8	806.4
62.5°	377.0	378.2	381.4	389.1	400.4	413.0	438.6	472.8	529.5	611.2	708.0
65°	314.2	314.9	319.7	322.6	331.6	342.7	361.6	384.7	423.7	492.2	565.5
67.5°	262.5	262.5	262.8	266.5	272.9	280.2	291.5	309.9	339.4	381.4	446.1
70°	228.9	228.9	230.4	232.5	236.0	242.3	248.5	262.5	284.2	318.3	367.9
72.5°	197.7	198.2	199.7	200.1	201.9	207.0	211.7	220.7	236.7	262.5	302.6
75°	145.2	147.3	150.8	153.6	157.0	156.4	161.3	166.8	171.8	187.1	210.2
77.5°	108.1	106.9	107.3	109.8	110.2	110.9	114.3	118.7	122.3	129.6	137.8
80°	82.4	82.4	84.4	85.1	84.4	85.1	88.7	90.8	92.2	94.9	102.6
82.5°	62.3	63.4	62.7	63.4	63.8	64.5	67.5	67.9	69.3	70.4	73.6
85°	34.9	35.6	36.3	34.9	34.9	34.9	36.3	37.0	38.4	37.7	39.1
87.5°	17.2	16.7	17.5	17.2	17.6	17.0	17.3	18.2	16.9	17.7	17.2
90°	24.6	24.6	25.9	24.6	23.4	23.4	22.3	21.1	20.0	21.1	18.8
92.5°	90.4	90.4	94.3	100.7	114.5	138.0	173.4	230.5	310.0	372.2	325.8
95°	286.3	301.5	322.8	359.1	416.6	530.4	687.6	869.5	983.4	956.3	721.6
97.5°	765.4	789.7	825.0	895.5	979.9	1102.4	1217.1	1284.8	1235.5	1007.3	675.4
100°	1076.1	1085.5	1120.6	1192.2	1294.3	1381.2	1438.7	1415.2	1243.9	943.4	612.6
102.5°	1346.5	1353.9	1391.0	1442.9	1505.5	1541.7	1525.0	1408.7	1173.5	863.6	570.3
105°	1651.0	1658.1	1674.6	1683.9	1681.5	1633.5	1517.3	1314.2	1045.5	769.8	533.9
107.5°	1764.2	1761.1	1749.4	1722.6	1664.7	1560.0	1396.4	1180.2	942.3	717.2	527.4
110°	1766.1	1755.5	1734.3	1685.1	1601.7	1472.7	1302.5	1099.5	890.7	699.4	529.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1710.7	1693.5	1664.0	1604.4	1509.7	1380.7	1219.9	1040.4	861.5	690.9	534.8
115°	1585.4	1576.0	1538.4	1468.0	1375.3	1262.6	1125.4	981.0	834.4	686.5	545.6
117.5°	1458.3	1451.1	1413.1	1353.9	1274.9	1179.3	1071.4	951.9	822.1	685.3	557.1
120°	1387.0	1374.1	1343.6	1292.0	1225.1	1141.8	1047.9	938.8	815.6	685.3	565.6
122.5°	1330.7	1317.8	1292.0	1247.9	1191.3	1118.3	1032.9	927.5	808.1	684.4	574.1
125°	1265.0	1258.0	1235.7	1201.6	1154.7	1090.1	1009.2	908.3	795.6	683.0	586.7
127.5°	1226.5	1219.5	1200.7	1170.4	1123.3	1062.0	981.3	884.7	778.9	680.3	596.8
130°	1204.0	1196.9	1178.1	1148.8	1100.8	1038.5	958.8	866.1	768.6	679.4	604.3
132.5°	1178.6	1171.5	1153.8	1120.6	1073.5	1011.3	933.4	846.3	759.2	678.5	610.9
135°	1131.3	1124.2	1105.4	1072.6	1025.6	966.9	895.3	819.1	745.2	677.1	620.8
137.5°	1072.6	1064.1	1048.6	1016.2	972.3	919.3	859.0	794.5	733.0	676.8	626.6
140°	1030.3	1020.9	1004.5	978.7	937.6	888.3	835.5	780.3	726.4	675.9	631.4
142.5°	985.2	978.7	964.1	940.2	903.8	861.1	815.8	767.2	720.7	675.9	635.1
145°	923.5	917.7	905.9	886.0	856.7	823.7	788.6	748.7	711.1	673.6	637.2
147.5°	868.8	866.8	857.8	840.7	819.1	793.2	765.1	733.5	702.5	669.3	638.3
150°	837.9	836.7	829.6	814.4	795.6	774.5	751.0	724.1	695.9	666.5	638.3
152.5°	809.7	808.5	804.3	791.8	775.9	758.5	736.9	713.7	688.3	661.9	636.5
155°	773.4	773.4	769.8	760.4	748.7	734.6	717.0	698.2	677.1	654.8	633.7
157.5°	741.4	741.4	739.3	732.3	723.4	712.1	697.3	681.6	665.6	647.5	630.7
160°	721.6	721.6	720.5	713.5	706.4	697.0	684.1	671.3	657.1	641.9	627.8
162.5°	702.9	703.9	702.7	695.6	690.4	682.1	672.0	660.9	649.6	636.2	625.0
165°	674.8	675.9	677.1	672.4	667.7	661.9	653.6	646.6	637.2	627.8	619.6
167.5°	652.5	653.4	653.6	650.6	648.2	644.7	638.1	632.8	625.9	619.4	614.0
170°	638.3	638.3	639.5	638.3	636.0	632.5	627.8	624.3	618.4	613.7	610.2
172.5°	624.3	626.1	627.3	626.1	624.7	622.2	619.4	616.7	611.9	608.0	606.4
175°	607.8	610.2	612.6	610.2	610.2	610.2	607.8	606.7	604.3	602.0	602.0
177.5°	598.2	600.1	602.0	601.1	602.0	601.1	601.1	600.1	599.2	598.2	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1785.2	1777.5	1773.5	1764.5	1753.9	1748.4	1743.3	1736.1	1726.6	1716.6	1709.3
5°	1875.8	1859.1	1838.2	1813.0	1790.7	1769.1	1750.2	1731.3	1709.7	1687.4	1665.1
7.5°	1968.8	1935.9	1900.3	1859.1	1819.1	1782.6	1749.1	1717.0	1680.6	1648.1	1618.5
10°	2033.7	1988.9	1939.3	1887.0	1834.6	1789.3	1744.6	1704.1	1659.4	1619.6	1586.1
12.5°	2086.2	2033.7	1974.0	1908.8	1845.8	1791.0	1739.6	1686.8	1636.0	1592.9	1548.1
15°	2173.2	2101.3	2021.0	1942.9	1861.2	1786.5	1717.4	1656.0	1598.0	1537.3	1494.7
17.5°	2233.1	2147.9	2050.2	1956.3	1859.8	1771.7	1691.9	1618.8	1552.0	1490.0	1439.3
20°	2268.9	2174.6	2066.5	1959.6	1851.4	1757.2	1671.3	1590.3	1521.3	1454.2	1401.8
22.5°	2289.0	2184.7	2066.5	1954.6	1842.5	1740.4	1646.2	1561.9	1486.6	1419.6	1361.6
25°	2295.4	2183.7	2063.0	1934.5	1811.6	1703.4	1605.7	1514.2	1430.5	1363.4	1302.0
27.5°	2286.5	2155.0	2031.2	1899.5	1772.7	1658.6	1556.0	1460.0	1376.0	1304.1	1241.1
30°	2273.1	2132.0	1999.4	1862.6	1734.1	1624.6	1516.3	1424.2	1336.9	1262.2	1198.7
32.5°	2244.0	2104.2	1961.5	1821.3	1691.1	1578.2	1475.5	1382.8	1297.3	1220.9	1153.5
35°	2186.6	2044.8	1889.9	1746.1	1618.2	1501.0	1404.6	1315.2	1233.6	1152.0	1080.7
37.5°	2110.7	1965.9	1811.8	1654.3	1526.4	1415.6	1327.3	1243.3	1163.7	1089.0	1010.2
40°	2039.2	1907.2	1748.1	1591.7	1460.5	1353.6	1272.0	1195.9	1115.6	1041.6	962.7
42.5°	1952.7	1840.3	1679.4	1522.5	1392.9	1290.0	1213.9	1139.4	1066.4	994.7	912.4
45°	1808.2	1722.9	1572.2	1421.4	1290.8	1188.9	1119.1	1053.5	989.3	920.8	843.3
47.5°	1642.5	1584.9	1454.7	1300.3	1179.5	1087.8	1020.4	966.7	912.4	844.0	776.1
50°	1527.5	1490.5	1364.8	1223.9	1108.6	1024.1	955.0	904.7	859.4	793.8	733.1
52.5°	1404.6	1384.9	1278.8	1144.0	1032.7	949.9	890.8	845.6	799.6	745.2	688.3
55°	1217.5	1228.0	1137.9	1021.4	916.7	846.9	793.0	755.4	716.3	670.2	626.2
57.5°	1026.2	1064.5	1004.0	901.7	803.5	739.0	698.5	666.8	634.0	595.8	558.3
60°	911.7	943.8	909.7	819.6	733.8	673.7	636.0	611.6	578.8	543.8	515.2
62.5°	800.0	834.4	814.2	741.4	661.7	610.1	576.8	554.0	529.6	499.2	469.4
65°	659.7	682.1	672.3	622.1	565.5	521.5	490.8	474.0	451.7	429.4	402.8
67.5°	505.3	548.5	542.7	516.0	467.2	432.8	412.7	397.9	377.6	360.9	343.0
70°	415.4	455.1	454.4	432.8	406.3	374.2	360.2	347.7	329.5	313.5	298.8
72.5°	340.0	376.5	381.8	365.3	347.1	322.9	309.4	300.7	283.2	272.2	260.2
75°	238.0	264.6	271.6	271.6	263.2	250.6	238.7	233.2	220.7	210.9	203.9
77.5°	156.1	172.9	183.8	186.2	187.5	183.3	173.6	169.7	160.0	156.5	149.9
80°	110.3	121.5	134.0	138.3	141.7	140.4	136.1	133.3	124.3	120.8	118.0
82.5°	76.2	82.4	92.7	101.9	101.0	104.6	101.0	98.8	91.9	90.6	87.9
85°	39.8	40.5	41.9	48.2	51.7	53.0	53.7	52.3	50.3	50.3	45.3
87.5°	16.7	16.2	15.9	15.9	16.2	18.2	19.1	19.2	18.0	17.1	15.7
90°	16.5	16.5	9.4	9.4	8.2	7.1	3.5	1.2	3.5	7.1	8.2
92.5°	237.0	146.0	86.3	62.0	44.8	30.5	19.5	13.3	19.5	30.5	44.8
95°	441.2	248.7	146.7	97.4	69.3	54.0	42.2	38.7	42.2	54.0	69.3
97.5°	396.7	237.7	159.2	117.9	93.6	79.6	69.5	69.5	69.5	79.6	93.6
100°	373.1	240.5	171.4	133.8	111.5	97.4	89.2	89.2	89.2	97.4	111.5
102.5°	366.6	249.9	187.3	151.6	130.3	117.1	109.9	108.0	109.9	117.1	130.3
105°	369.6	272.3	215.9	181.9	160.8	146.7	140.8	137.3	140.8	146.7	160.8
107.5°	387.0	298.3	246.7	213.1	192.9	177.9	172.0	169.7	172.0	177.9	192.9
110°	400.1	318.0	266.4	234.7	213.6	199.4	193.6	191.3	193.6	199.4	213.6



TEST NUMBER: P332981-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	414.2	336.8	287.0	255.4	234.2	221.1	214.3	212.0	214.3	221.1	234.2
115°	436.6	366.1	319.2	287.5	265.2	253.5	245.3	241.8	245.3	253.5	265.2
117.5°	459.3	394.6	349.9	317.1	296.2	283.3	276.0	272.7	276.0	283.3	296.2
120°	475.2	414.2	369.6	336.8	316.8	304.0	295.7	293.4	295.7	304.0	316.8
122.5°	490.3	433.0	388.4	356.5	334.7	322.8	314.5	312.1	314.5	322.8	334.7
125°	512.8	458.8	416.6	383.7	361.4	348.5	341.4	336.8	341.4	348.5	361.4
127.5°	532.3	482.7	441.9	408.8	385.6	370.8	362.3	358.6	362.3	370.8	385.6
130°	544.5	498.8	458.8	424.7	402.5	384.9	375.5	370.8	375.5	384.9	402.5
132.5°	556.7	511.9	472.0	439.8	415.7	399.0	386.8	383.0	386.8	399.0	415.7
135°	572.7	530.4	491.7	461.2	436.6	416.6	404.9	400.1	404.9	416.6	436.6
137.5°	583.9	544.5	508.4	479.3	453.6	434.6	421.7	417.3	421.7	434.6	453.6
140°	591.4	553.9	518.7	490.5	465.9	446.0	433.0	429.5	433.0	446.0	465.9
142.5°	597.0	562.3	528.1	500.8	477.2	458.1	446.2	442.6	446.2	458.1	477.2
145°	603.2	571.5	541.0	515.1	492.8	476.5	464.7	461.2	464.7	476.5	492.8
147.5°	608.5	580.9	552.2	529.0	510.5	493.5	483.2	482.0	483.2	493.5	510.5
150°	611.4	585.5	559.8	537.5	519.9	505.7	496.3	495.2	496.3	505.7	519.9
152.5°	613.3	589.4	566.3	545.9	530.2	517.1	507.7	507.4	507.7	517.1	530.2
155°	614.9	594.9	575.0	557.4	544.5	532.7	525.7	524.5	525.7	532.7	544.5
157.5°	614.9	599.0	582.1	568.2	556.9	547.8	541.2	541.2	541.2	547.8	556.9
160°	614.9	600.8	586.7	573.8	564.4	556.2	551.5	551.5	551.5	556.2	564.4
162.5°	614.9	602.7	589.6	579.5	571.0	563.7	560.0	560.9	560.0	563.7	571.0
165°	612.6	603.2	592.6	585.5	579.7	573.8	571.5	571.5	571.5	573.8	579.7
167.5°	609.8	602.9	595.2	589.8	586.5	582.1	580.9	582.1	580.9	582.1	586.5
170°	607.8	602.0	596.1	592.6	590.3	586.7	585.5	586.7	585.5	586.7	590.3
172.5°	606.0	601.1	597.0	594.5	593.1	590.5	590.3	591.4	590.3	590.5	593.1
175°	603.2	599.7	597.3	597.3	596.1	594.9	594.9	596.1	594.9	594.9	596.1
177.5°	600.1	598.2	597.3	597.3	597.3	596.3	597.3	598.2	597.3	596.3	597.3
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332981-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1701.4	1695.9	1688.6	1680.2	1670.2	1661.2	1657.4	1660.7	1662.3	1657.9	1657.4
5°	1649.7	1632.2	1618.2	1597.3	1580.5	1566.6	1556.8	1552.7	1554.0	1542.9	1540.0
7.5°	1591.4	1570.7	1547.9	1523.0	1499.9	1479.4	1468.5	1462.7	1450.9	1445.8	1437.3
10°	1554.0	1526.1	1503.8	1474.4	1447.9	1423.5	1411.6	1401.8	1390.0	1384.4	1372.5
12.5°	1515.5	1483.1	1458.5	1428.1	1401.0	1371.5	1360.2	1342.1	1323.5	1311.8	1296.6
15°	1461.2	1422.1	1392.1	1355.7	1323.6	1290.1	1260.1	1226.6	1214.1	1187.5	1172.2
17.5°	1397.7	1358.0	1320.8	1272.1	1222.5	1180.9	1148.9	1116.8	1097.6	1080.7	1072.9
20°	1355.7	1319.5	1267.8	1211.2	1156.1	1110.0	1084.2	1063.3	1042.3	1030.5	1022.1
22.5°	1316.1	1269.7	1209.7	1148.7	1093.6	1057.5	1035.6	1014.1	997.0	985.7	974.6
25°	1249.6	1188.9	1125.4	1055.6	1017.8	986.4	962.7	945.2	934.8	920.1	914.5
27.5°	1181.3	1107.8	1037.7	990.8	951.5	922.8	902.1	889.0	875.8	866.4	859.1
30°	1128.8	1054.2	991.4	946.6	906.9	883.1	866.4	851.0	840.5	832.8	827.3
32.5°	1076.9	1002.2	949.5	901.4	870.0	846.9	829.0	817.5	809.3	799.3	796.0
35°	1001.8	935.4	889.4	846.2	814.1	793.0	779.1	767.2	760.2	757.5	755.4
37.5°	929.6	875.4	825.8	790.3	761.6	745.2	728.7	722.9	718.1	713.1	715.3
40°	883.8	832.8	788.9	751.1	728.1	710.0	700.2	693.3	689.0	689.0	689.0
42.5°	844.1	794.4	751.4	717.7	694.6	679.2	668.4	662.5	661.2	660.6	663.9
45°	782.6	736.5	693.3	665.3	645.8	630.4	624.1	619.2	619.2	622.1	622.7
47.5°	721.5	678.4	643.7	612.4	594.5	584.9	579.5	576.9	577.2	580.0	583.2
50°	684.2	641.6	607.3	579.5	562.7	553.6	548.8	547.3	548.8	548.8	553.6
52.5°	643.4	605.3	571.6	548.2	529.2	520.7	518.0	516.0	516.8	519.2	521.2
55°	583.6	549.5	517.4	494.9	481.0	475.4	469.2	469.8	468.5	469.8	469.8
57.5°	523.7	493.0	463.1	445.5	433.1	425.1	418.2	420.1	418.1	417.8	416.7
60°	485.2	451.7	428.0	411.9	397.9	390.9	384.7	386.1	384.0	382.5	379.8
62.5°	443.3	415.4	392.7	377.3	366.1	358.0	351.7	350.3	345.5	340.7	334.6
65°	382.5	359.5	339.3	324.7	314.2	307.9	303.0	298.8	288.3	277.1	271.6
67.5°	323.6	306.9	288.0	275.6	267.1	258.8	249.5	242.4	232.6	226.5	223.0
70°	285.5	269.4	253.4	241.6	232.5	224.8	214.3	209.4	202.5	199.7	196.2
72.5°	249.2	234.3	219.3	208.6	198.9	193.0	184.7	179.9	176.7	175.6	172.2
75°	194.1	182.2	171.1	161.3	153.6	149.4	145.9	142.4	141.0	134.7	131.3
77.5°	141.6	133.8	126.7	119.8	114.3	111.6	104.8	100.8	98.5	95.5	94.8
80°	110.3	104.7	97.8	93.5	85.8	83.1	80.3	79.6	78.9	78.2	77.5
82.5°	82.9	77.4	70.4	67.9	65.7	64.1	62.4	61.7	61.0	61.4	61.3
85°	41.9	39.1	39.1	38.4	37.7	37.0	36.3	36.3	35.6	36.3	35.6
87.5°	15.9	15.2	16.7	15.6	16.6	17.1	16.3	16.6	17.3	16.5	16.5
90°	9.4	9.4	16.5	16.5	18.8	21.1	20.0	21.1	22.3	23.4	23.4
92.5°	62.0	86.3	146.0	237.0	325.8	372.2	310.0	230.5	173.4	138.0	114.5
95°	97.4	146.7	248.7	441.2	721.6	956.3	983.4	869.5	687.6	530.4	416.6
97.5°	117.9	159.2	237.7	396.7	675.4	1007.3	1235.5	1284.8	1217.1	1102.4	979.9
100°	133.8	171.4	240.5	373.1	612.6	943.4	1243.9	1415.2	1438.7	1381.2	1294.3
102.5°	151.6	187.3	249.9	366.6	570.3	863.6	1173.5	1408.7	1525.0	1541.7	1505.5
105°	181.9	215.9	272.3	369.6	533.9	769.8	1045.5	1314.2	1517.3	1633.5	1681.5
107.5°	213.1	246.7	298.3	387.0	527.4	717.2	942.3	1180.2	1396.4	1560.0	1664.7
110°	234.7	266.4	318.0	400.1	529.3	699.4	890.7	1099.5	1302.5	1472.7	1601.7



TEST NUMBER: P332981-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	255.4	287.0	336.8	414.2	534.8	690.9	861.5	1040.4	1219.9	1380.7	1509.7
115°	287.5	319.2	366.1	436.6	545.6	686.5	834.4	981.0	1125.4	1262.6	1375.3
117.5°	317.1	349.9	394.6	459.3	557.1	685.3	822.1	951.9	1071.4	1179.3	1274.9
120°	336.8	369.6	414.2	475.2	565.6	685.3	815.6	938.8	1047.9	1141.8	1225.1
122.5°	356.5	388.4	433.0	490.3	574.1	684.4	808.1	927.5	1032.9	1118.3	1191.3
125°	383.7	416.6	458.8	512.8	586.7	683.0	795.6	908.3	1009.2	1090.1	1154.7
127.5°	408.8	441.9	482.7	532.3	596.8	680.3	778.9	884.7	981.3	1062.0	1123.3
130°	424.7	458.8	498.8	544.5	604.3	679.4	768.6	866.1	958.8	1038.5	1100.8
132.5°	439.8	472.0	511.9	556.7	610.9	678.5	759.2	846.3	933.4	1011.3	1073.5
135°	461.2	491.7	530.4	572.7	620.8	677.1	745.2	819.1	895.3	966.9	1025.6
137.5°	479.3	508.4	544.5	583.9	626.6	676.8	733.0	794.5	859.0	919.3	972.3
140°	490.5	518.7	553.9	591.4	631.4	675.9	726.4	780.3	835.5	888.3	937.6
142.5°	500.8	528.1	562.3	597.0	635.1	675.9	720.7	767.2	815.8	861.1	903.8
145°	515.1	541.0	571.5	603.2	637.2	673.6	711.1	748.7	788.6	823.7	856.7
147.5°	529.0	552.2	580.9	608.5	638.3	669.3	702.5	733.5	765.1	793.2	819.1
150°	537.5	559.8	585.5	611.4	638.3	666.5	695.9	724.1	751.0	774.5	795.6
152.5°	545.9	566.3	589.4	613.3	636.5	661.9	688.3	713.7	736.9	758.5	775.9
155°	557.4	575.0	594.9	614.9	633.7	654.8	677.1	698.2	717.0	734.6	748.7
157.5°	568.2	582.1	599.0	614.9	630.7	647.5	665.6	681.6	697.3	712.1	723.4
160°	573.8	586.7	600.8	614.9	627.8	641.9	657.1	671.3	684.1	697.0	706.4
162.5°	579.5	589.6	602.7	614.9	625.0	636.2	649.6	660.9	672.0	682.1	690.4
165°	585.5	592.6	603.2	612.6	619.6	627.8	637.2	646.6	653.6	661.9	667.7
167.5°	589.8	595.2	602.9	609.8	614.0	619.4	625.9	632.8	638.1	644.7	648.2
170°	592.6	596.1	602.0	607.8	610.2	613.7	618.4	624.3	627.8	632.5	636.0
172.5°	594.5	597.0	601.1	606.0	606.4	608.0	611.9	616.7	619.4	622.2	624.7
175°	597.3	597.3	599.7	603.2	602.0	602.0	604.3	606.7	607.8	610.2	610.2
177.5°	597.3	597.3	598.2	600.1	598.2	598.2	599.2	600.1	601.1	601.1	602.0
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332981-840

CATALOG NUMBER: S124RDIP-S1020D1205U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1654.0	1655.1	1651.2	1650.1	1651.2	1655.1	1654.0	1657.4	1657.9	1662.3	1660.7
5°	1534.5	1533.1	1529.5	1530.2	1529.5	1533.1	1534.5	1540.0	1542.9	1554.0	1552.7
7.5°	1432.3	1426.8	1428.4	1422.8	1428.4	1426.8	1432.3	1437.3	1445.8	1450.9	1462.7
10°	1369.7	1362.0	1355.7	1350.2	1355.7	1362.0	1369.7	1372.5	1384.4	1390.0	1401.8
12.5°	1284.2	1277.7	1269.2	1270.9	1269.2	1277.7	1284.2	1296.6	1311.8	1323.5	1342.1
15°	1163.1	1152.6	1135.9	1137.9	1135.9	1152.6	1163.1	1172.2	1187.5	1214.1	1226.6
17.5°	1060.5	1060.6	1052.9	1054.7	1052.9	1060.6	1060.5	1072.9	1080.7	1097.6	1116.8
20°	1007.4	1002.5	1003.2	1001.1	1003.2	1002.5	1007.4	1022.1	1030.5	1042.3	1063.3
22.5°	970.6	964.5	959.7	955.3	959.7	964.5	970.6	974.6	985.7	997.0	1014.1
25°	908.3	904.0	897.8	896.4	897.8	904.0	908.3	914.5	920.1	934.8	945.2
27.5°	853.5	852.7	850.2	847.0	850.2	852.7	853.5	859.1	866.4	875.8	889.0
30°	821.7	820.3	818.9	816.8	818.9	820.3	821.7	827.3	832.8	840.5	851.0
32.5°	793.2	792.3	790.9	791.1	790.9	792.3	793.2	796.0	799.3	809.3	817.5
35°	752.6	751.8	750.5	749.8	750.5	751.8	752.6	755.4	757.5	760.2	767.2
37.5°	714.6	716.4	715.6	715.4	715.6	716.4	714.6	715.3	713.1	718.1	722.9
40°	688.3	689.0	690.4	689.7	690.4	689.0	688.3	689.0	689.0	689.0	693.3
42.5°	666.6	666.7	668.6	666.3	668.6	666.7	666.6	663.9	660.6	661.2	662.5
45°	627.6	631.8	631.1	631.1	631.1	631.8	627.6	622.7	622.1	619.2	619.2
47.5°	585.0	588.7	589.7	589.5	589.7	588.7	585.0	583.2	580.0	577.2	576.9
50°	557.1	555.7	557.8	557.1	557.8	555.7	557.1	553.6	548.8	548.8	547.3
52.5°	523.0	523.3	523.2	522.5	523.2	523.3	523.0	521.2	519.2	516.8	516.0
55°	470.5	471.2	469.8	470.5	469.8	471.2	470.5	469.8	469.8	468.5	469.8
57.5°	413.5	410.2	411.6	409.9	411.6	410.2	413.5	416.7	417.8	418.1	420.1
60°	372.8	367.2	365.8	363.0	365.8	367.2	372.8	379.8	382.5	384.0	386.1
62.5°	327.0	323.1	318.3	320.5	318.3	323.1	327.0	334.6	340.7	345.5	350.3
65°	266.0	263.2	261.1	263.9	261.1	263.2	266.0	271.6	277.1	288.3	298.8
67.5°	220.2	218.6	218.6	217.2	218.6	218.6	220.2	223.0	226.5	232.6	242.4
70°	196.2	194.1	194.1	192.7	194.1	194.1	196.2	196.2	199.7	202.5	209.4
72.5°	171.6	169.5	170.1	169.3	170.1	169.5	171.6	172.2	175.6	176.7	179.9
75°	127.0	123.6	123.6	124.3	123.6	123.6	127.0	131.3	134.7	141.0	142.4
77.5°	94.8	94.1	95.1	93.8	95.1	94.1	94.8	94.8	95.5	98.5	100.8
80°	77.5	76.7	76.1	78.2	76.1	76.7	77.5	77.5	78.2	78.9	79.6
82.5°	60.2	60.1	59.9	62.5	59.9	60.1	60.2	61.3	61.4	61.0	61.7
85°	36.3	34.9	36.3	34.9	36.3	34.9	36.3	35.6	36.3	35.6	36.3
87.5°	17.8	17.5	16.7	17.2	16.7	17.5	17.8	16.5	16.5	17.3	16.6
90°	24.6	25.9	24.6	24.6	24.6	25.9	24.6	23.4	23.4	22.3	21.1
92.5°	100.7	94.3	90.4	90.4	90.4	94.3	100.7	114.5	138.0	173.4	230.5
95°	359.1	322.8	301.5	286.3	301.5	322.8	359.1	416.6	530.4	687.6	869.5
97.5°	895.5	825.0	789.7	765.4	789.7	825.0	895.5	979.9	1102.4	1217.1	1284.8
100°	1192.2	1120.6	1085.5	1076.1	1085.5	1120.6	1192.2	1294.3	1381.2	1438.7	1415.2
102.5°	1442.9	1391.0	1353.9	1346.5	1353.9	1391.0	1442.9	1505.5	1541.7	1525.0	1408.7
105°	1683.9	1674.6	1658.1	1651.0	1658.1	1674.6	1683.9	1681.5	1633.5	1517.3	1314.2
107.5°	1722.6	1749.4	1761.1	1764.2	1761.1	1749.4	1722.6	1664.7	1560.0	1396.4	1180.2
110°	1685.1	1734.3	1755.5	1766.1	1755.5	1734.3	1685.1	1601.7	1472.7	1302.5	1099.5



TEST NUMBER: P332981-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1604.4	1664.0	1693.5	1710.7	1693.5	1664.0	1604.4	1509.7	1380.7	1219.9	1040.4
115°	1468.0	1538.4	1576.0	1585.4	1576.0	1538.4	1468.0	1375.3	1262.6	1125.4	981.0
117.5°	1353.9	1413.1	1451.1	1458.3	1451.1	1413.1	1353.9	1274.9	1179.3	1071.4	951.9
120°	1292.0	1343.6	1374.1	1387.0	1374.1	1343.6	1292.0	1225.1	1141.8	1047.9	938.8
122.5°	1247.9	1292.0	1317.8	1330.7	1317.8	1292.0	1247.9	1191.3	1118.3	1032.9	927.5
125°	1201.6	1235.7	1258.0	1265.0	1258.0	1235.7	1201.6	1154.7	1090.1	1009.2	908.3
127.5°	1170.4	1200.7	1219.5	1226.5	1219.5	1200.7	1170.4	1123.3	1062.0	981.3	884.7
130°	1148.8	1178.1	1196.9	1204.0	1196.9	1178.1	1148.8	1100.8	1038.5	958.8	866.1
132.5°	1120.6	1153.8	1171.5	1178.6	1171.5	1153.8	1120.6	1073.5	1011.3	933.4	846.3
135°	1072.6	1105.4	1124.2	1131.3	1124.2	1105.4	1072.6	1025.6	966.9	895.3	819.1
137.5°	1016.2	1048.6	1064.1	1072.6	1064.1	1048.6	1016.2	972.3	919.3	859.0	794.5
140°	978.7	1004.5	1020.9	1030.3	1020.9	1004.5	978.7	937.6	888.3	835.5	780.3
142.5°	940.2	964.1	978.7	985.2	978.7	964.1	940.2	903.8	861.1	815.8	767.2
145°	886.0	905.9	917.7	923.5	917.7	905.9	886.0	856.7	823.7	788.6	748.7
147.5°	840.7	857.8	866.8	868.8	866.8	857.8	840.7	819.1	793.2	765.1	733.5
150°	814.4	829.6	836.7	837.9	836.7	829.6	814.4	795.6	774.5	751.0	724.1
152.5°	791.8	804.3	808.5	809.7	808.5	804.3	791.8	775.9	758.5	736.9	713.7
155°	760.4	769.8	773.4	773.4	773.4	769.8	760.4	748.7	734.6	717.0	698.2
157.5°	732.3	739.3	741.4	741.4	741.4	739.3	732.3	723.4	712.1	697.3	681.6
160°	713.5	720.5	721.6	721.6	721.6	720.5	713.5	706.4	697.0	684.1	671.3
162.5°	695.6	702.7	703.9	702.9	703.9	702.7	695.6	690.4	682.1	672.0	660.9
165°	672.4	677.1	675.9	674.8	675.9	677.1	672.4	667.7	661.9	653.6	646.6
167.5°	650.6	653.6	653.4	652.5	653.4	653.6	650.6	648.2	644.7	638.1	632.8
170°	638.3	639.5	638.3	638.3	638.3	639.5	638.3	636.0	632.5	627.8	624.3
172.5°	626.1	627.3	626.1	624.3	626.1	627.3	626.1	624.7	622.2	619.4	616.7
175°	610.2	612.6	610.2	607.8	610.2	612.6	610.2	610.2	610.2	607.8	606.7
177.5°	601.1	602.0	600.1	598.2	600.1	602.0	601.1	602.0	601.1	601.1	600.1
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1657.4	1661.2	1670.2	1680.2	1688.6	1695.9	1701.4	1709.3	1716.6	1726.6	1736.1
5°	1556.8	1566.6	1580.5	1597.3	1618.2	1632.2	1649.7	1665.1	1687.4	1709.7	1731.3
7.5°	1468.5	1479.4	1499.9	1523.0	1547.9	1570.7	1591.4	1618.5	1648.1	1680.6	1717.0
10°	1411.6	1423.5	1447.9	1474.4	1503.8	1526.1	1554.0	1586.1	1619.6	1659.4	1704.1
12.5°	1360.2	1371.5	1401.0	1428.1	1458.5	1483.1	1515.5	1548.1	1592.9	1636.0	1686.8
15°	1260.1	1290.1	1323.6	1355.7	1392.1	1422.1	1461.2	1494.7	1537.3	1598.0	1656.0
17.5°	1148.9	1180.9	1222.5	1272.1	1320.8	1358.0	1397.7	1439.3	1490.0	1552.0	1618.8
20°	1084.2	1110.0	1156.1	1211.2	1267.8	1319.5	1355.7	1401.8	1454.2	1521.3	1590.3
22.5°	1035.6	1057.5	1093.6	1148.7	1209.7	1269.7	1316.1	1361.6	1419.6	1486.6	1561.9
25°	962.7	986.4	1017.8	1055.6	1125.4	1188.9	1249.6	1302.0	1363.4	1430.5	1514.2
27.5°	902.1	922.8	951.5	990.8	1037.7	1107.8	1181.3	1241.1	1304.1	1376.0	1460.0
30°	866.4	883.1	906.9	946.6	991.4	1054.2	1128.8	1198.7	1262.2	1336.9	1424.2
32.5°	829.0	846.9	870.0	901.4	949.5	1002.2	1076.9	1153.5	1220.9	1297.3	1382.8
35°	779.1	793.0	814.1	846.2	889.4	935.4	1001.8	1080.7	1152.0	1233.6	1315.2
37.5°	728.7	745.2	761.6	790.3	825.8	875.4	929.6	1010.2	1089.0	1163.7	1243.3
40°	700.2	710.0	728.1	751.1	788.9	832.8	883.8	962.7	1041.6	1115.6	1195.9
42.5°	668.4	679.2	694.6	717.7	751.4	794.4	844.1	912.4	994.7	1066.4	1139.4
45°	624.1	630.4	645.8	665.3	693.3	736.5	782.6	843.3	920.8	989.3	1053.5
47.5°	579.5	584.9	594.5	612.4	643.7	678.4	721.5	776.1	844.0	912.4	966.7
50°	548.8	553.6	562.7	579.5	607.3	641.6	684.2	733.1	793.8	859.4	904.7
52.5°	518.0	520.7	529.2	548.2	571.6	605.3	643.4	688.3	745.2	799.6	845.6
55°	469.2	475.4	481.0	494.9	517.4	549.5	583.6	626.2	670.2	716.3	755.4
57.5°	418.2	425.1	433.1	445.5	463.1	493.0	523.7	558.3	595.8	634.0	666.8
60°	384.7	390.9	397.9	411.9	428.0	451.7	485.2	515.2	543.8	578.8	611.6
62.5°	351.7	358.0	366.1	377.3	392.7	415.4	443.3	469.4	499.2	529.6	554.0
65°	303.0	307.9	314.2	324.7	339.3	359.5	382.5	402.8	429.4	451.7	474.0
67.5°	249.5	258.8	267.1	275.6	288.0	306.9	323.6	343.0	360.9	377.6	397.9
70°	214.3	224.8	232.5	241.6	253.4	269.4	285.5	298.8	313.5	329.5	347.7
72.5°	184.7	193.0	198.9	208.6	219.3	234.3	249.2	260.2	272.2	283.2	300.7
75°	145.9	149.4	153.6	161.3	171.1	182.2	194.1	203.9	210.9	220.7	233.2
77.5°	104.8	111.6	114.3	119.8	126.7	133.8	141.6	149.9	156.5	160.0	169.7
80°	80.3	83.1	85.8	93.5	97.8	104.7	110.3	118.0	120.8	124.3	133.3
82.5°	62.4	64.1	65.7	67.9	70.4	77.4	82.9	87.9	90.6	91.9	98.8
85°	36.3	37.0	37.7	38.4	39.1	39.1	41.9	45.3	50.3	50.3	52.3
87.5°	16.3	17.1	16.6	15.6	16.7	15.2	15.9	15.7	17.1	18.0	19.2
90°	20.0	21.1	18.8	16.5	16.5	9.4	9.4	8.2	7.1	3.5	1.2
92.5°	310.0	372.2	325.8	237.0	146.0	86.3	62.0	44.8	30.5	19.5	13.3
95°	983.4	956.3	721.6	441.2	248.7	146.7	97.4	69.3	54.0	42.2	38.7
97.5°	1235.5	1007.3	675.4	396.7	237.7	159.2	117.9	93.6	79.6	69.5	69.5
100°	1243.9	943.4	612.6	373.1	240.5	171.4	133.8	111.5	97.4	89.2	89.2
102.5°	1173.5	863.6	570.3	366.6	249.9	187.3	151.6	130.3	117.1	109.9	108.0
105°	1045.5	769.8	533.9	369.6	272.3	215.9	181.9	160.8	146.7	140.8	137.3
107.5°	942.3	717.2	527.4	387.0	298.3	246.7	213.1	192.9	177.9	172.0	169.7
110°	890.7	699.4	529.3	400.1	318.0	266.4	234.7	213.6	199.4	193.6	191.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	861.5	690.9	534.8	414.2	336.8	287.0	255.4	234.2	221.1	214.3	212.0
115°	834.4	686.5	545.6	436.6	366.1	319.2	287.5	265.2	253.5	245.3	241.8
117.5°	822.1	685.3	557.1	459.3	394.6	349.9	317.1	296.2	283.3	276.0	272.7
120°	815.6	685.3	565.6	475.2	414.2	369.6	336.8	316.8	304.0	295.7	293.4
122.5°	808.1	684.4	574.1	490.3	433.0	388.4	356.5	334.7	322.8	314.5	312.1
125°	795.6	683.0	586.7	512.8	458.8	416.6	383.7	361.4	348.5	341.4	336.8
127.5°	778.9	680.3	596.8	532.3	482.7	441.9	408.8	385.6	370.8	362.3	358.6
130°	768.6	679.4	604.3	544.5	498.8	458.8	424.7	402.5	384.9	375.5	370.8
132.5°	759.2	678.5	610.9	556.7	511.9	472.0	439.8	415.7	399.0	386.8	383.0
135°	745.2	677.1	620.8	572.7	530.4	491.7	461.2	436.6	416.6	404.9	400.1
137.5°	733.0	676.8	626.6	583.9	544.5	508.4	479.3	453.6	434.6	421.7	417.3
140°	726.4	675.9	631.4	591.4	553.9	518.7	490.5	465.9	446.0	433.0	429.5
142.5°	720.7	675.9	635.1	597.0	562.3	528.1	500.8	477.2	458.1	446.2	442.6
145°	711.1	673.6	637.2	603.2	571.5	541.0	515.1	492.8	476.5	464.7	461.2
147.5°	702.5	669.3	638.3	608.5	580.9	552.2	529.0	510.5	493.5	483.2	482.0
150°	695.9	666.5	638.3	611.4	585.5	559.8	537.5	519.9	505.7	496.3	495.2
152.5°	688.3	661.9	636.5	613.3	589.4	566.3	545.9	530.2	517.1	507.7	507.4
155°	677.1	654.8	633.7	614.9	594.9	575.0	557.4	544.5	532.7	525.7	524.5
157.5°	665.6	647.5	630.7	614.9	599.0	582.1	568.2	556.9	547.8	541.2	541.2
160°	657.1	641.9	627.8	614.9	600.8	586.7	573.8	564.4	556.2	551.5	551.5
162.5°	649.6	636.2	625.0	614.9	602.7	589.6	579.5	571.0	563.7	560.0	560.9
165°	637.2	627.8	619.6	612.6	603.2	592.6	585.5	579.7	573.8	571.5	571.5
167.5°	625.9	619.4	614.0	609.8	602.9	595.2	589.8	586.5	582.1	580.9	582.1
170°	618.4	613.7	610.2	607.8	602.0	596.1	592.6	590.3	586.7	585.5	586.7
172.5°	611.9	608.0	606.4	606.0	601.1	597.0	594.5	593.1	590.5	590.3	591.4
175°	604.3	602.0	602.0	603.2	599.7	597.3	597.3	596.1	594.9	594.9	596.1
177.5°	599.2	598.2	598.2	600.1	598.2	597.3	597.3	597.3	596.3	597.3	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



TEST NUMBER: P332981-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1743.3	1748.4	1753.9	1764.5	1773.5	1777.5	1785.2	1790.8	1789.2	1797.0	1810.4
5°	1750.2	1769.1	1790.7	1813.0	1838.2	1859.1	1875.8	1892.6	1905.9	1922.0	1945.7
7.5°	1749.1	1782.6	1819.1	1859.1	1900.3	1935.9	1968.8	2002.4	2032.1	2064.7	2107.2
10°	1744.6	1789.3	1834.6	1887.0	1939.3	1988.9	2033.7	2075.5	2115.4	2157.9	2211.7
12.5°	1739.6	1791.0	1845.8	1908.8	1974.0	2033.7	2086.2	2146.5	2196.3	2251.2	2313.3
15°	1717.4	1786.5	1861.2	1942.9	2021.0	2101.3	2173.2	2247.3	2316.3	2382.0	2460.2
17.5°	1691.9	1771.7	1859.8	1956.3	2050.2	2147.9	2233.1	2326.4	2397.1	2485.2	2557.8
20°	1671.3	1757.2	1851.4	1959.6	2066.5	2174.6	2268.9	2363.9	2443.5	2532.1	2624.2
22.5°	1646.2	1740.4	1842.5	1954.6	2066.5	2184.7	2289.0	2383.4	2481.9	2581.8	2676.7
25°	1605.7	1703.4	1811.6	1934.5	2063.0	2183.7	2295.4	2412.7	2518.8	2627.1	2712.2
27.5°	1556.0	1658.6	1772.7	1899.5	2031.2	2155.0	2286.5	2411.5	2518.3	2622.4	2696.7
30°	1516.3	1624.6	1734.1	1862.6	1999.4	2132.0	2273.1	2398.0	2510.4	2604.0	2645.8
32.5°	1475.5	1578.2	1691.1	1821.3	1961.5	2104.2	2244.0	2371.8	2475.8	2531.9	2533.0
35°	1404.6	1501.0	1618.2	1746.1	1889.9	2044.8	2186.6	2312.2	2375.7	2380.6	2312.2
37.5°	1327.3	1415.6	1526.4	1654.3	1811.8	1965.9	2110.7	2194.4	2215.7	2144.7	2018.1
40°	1272.0	1353.6	1460.5	1591.7	1748.1	1907.2	2039.2	2100.6	2078.3	1963.1	1822.1
42.5°	1213.9	1290.0	1392.9	1522.5	1679.4	1840.3	1952.7	1985.6	1926.4	1793.3	1628.3
45°	1119.1	1188.9	1290.8	1421.4	1572.2	1722.9	1808.2	1791.4	1692.9	1535.2	1350.2
47.5°	1020.4	1087.8	1179.5	1300.3	1454.7	1584.9	1642.5	1592.1	1452.0	1278.4	1127.9
50°	955.0	1024.1	1108.6	1223.9	1364.8	1490.5	1527.5	1450.7	1295.1	1128.1	990.0
52.5°	890.8	949.9	1032.7	1144.0	1278.8	1384.9	1404.6	1316.1	1155.4	1005.8	883.2
55°	793.0	846.9	916.7	1021.4	1137.9	1228.0	1217.5	1103.8	957.9	830.1	733.8
57.5°	698.5	739.0	803.5	901.7	1004.0	1064.5	1026.2	929.2	793.2	688.6	607.3
60°	636.0	673.7	733.8	819.6	909.7	943.8	911.7	806.4	698.8	603.2	534.7
62.5°	576.8	610.1	661.7	741.4	814.2	834.4	800.0	708.0	611.2	529.5	472.8
65°	490.8	521.5	565.5	622.1	672.3	682.1	659.7	565.5	492.2	423.7	384.7
67.5°	412.7	432.8	467.2	516.0	542.7	548.5	505.3	446.1	381.4	339.4	309.9
70°	360.2	374.2	406.3	432.8	454.4	455.1	415.4	367.9	318.3	284.2	262.5
72.5°	309.4	322.9	347.1	365.3	381.8	376.5	340.0	302.6	262.5	236.7	220.7
75°	238.7	250.6	263.2	271.6	271.6	264.6	238.0	210.2	187.1	171.8	166.8
77.5°	173.6	183.3	187.5	186.2	183.8	172.9	156.1	137.8	129.6	122.3	118.7
80°	136.1	140.4	141.7	138.3	134.0	121.5	110.3	102.6	94.9	92.2	90.8
82.5°	101.0	104.6	101.0	101.9	92.7	82.4	76.2	73.6	70.4	69.3	67.9
85°	53.7	53.0	51.7	48.2	41.9	40.5	39.8	39.1	37.7	38.4	37.0
87.5°	19.1	18.2	16.2	15.9	15.9	16.2	16.7	17.2	17.7	16.9	18.2
90°	3.5	7.1	8.2	9.4	9.4	16.5	16.5	18.8	21.1	20.0	21.1
92.5°	19.5	30.5	44.8	62.0	86.3	146.0	237.0	325.8	372.2	310.0	230.5
95°	42.2	54.0	69.3	97.4	146.7	248.7	441.2	721.6	956.3	983.4	869.5
97.5°	69.5	79.6	93.6	117.9	159.2	237.7	396.7	675.4	1007.3	1235.5	1284.8
100°	89.2	97.4	111.5	133.8	171.4	240.5	373.1	612.6	943.4	1243.9	1415.2
102.5°	109.9	117.1	130.3	151.6	187.3	249.9	366.6	570.3	863.6	1173.5	1408.7
105°	140.8	146.7	160.8	181.9	215.9	272.3	369.6	533.9	769.8	1045.5	1314.2
107.5°	172.0	177.9	192.9	213.1	246.7	298.3	387.0	527.4	717.2	942.3	1180.2
110°	193.6	199.4	213.6	234.7	266.4	318.0	400.1	529.3	699.4	890.7	1099.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	214.3	221.1	234.2	255.4	287.0	336.8	414.2	534.8	690.9	861.5	1040.4
115°	245.3	253.5	265.2	287.5	319.2	366.1	436.6	545.6	686.5	834.4	981.0
117.5°	276.0	283.3	296.2	317.1	349.9	394.6	459.3	557.1	685.3	822.1	951.9
120°	295.7	304.0	316.8	336.8	369.6	414.2	475.2	565.6	685.3	815.6	938.8
122.5°	314.5	322.8	334.7	356.5	388.4	433.0	490.3	574.1	684.4	808.1	927.5
125°	341.4	348.5	361.4	383.7	416.6	458.8	512.8	586.7	683.0	795.6	908.3
127.5°	362.3	370.8	385.6	408.8	441.9	482.7	532.3	596.8	680.3	778.9	884.7
130°	375.5	384.9	402.5	424.7	458.8	498.8	544.5	604.3	679.4	768.6	866.1
132.5°	386.8	399.0	415.7	439.8	472.0	511.9	556.7	610.9	678.5	759.2	846.3
135°	404.9	416.6	436.6	461.2	491.7	530.4	572.7	620.8	677.1	745.2	819.1
137.5°	421.7	434.6	453.6	479.3	508.4	544.5	583.9	626.6	676.8	733.0	794.5
140°	433.0	446.0	465.9	490.5	518.7	553.9	591.4	631.4	675.9	726.4	780.3
142.5°	446.2	458.1	477.2	500.8	528.1	562.3	597.0	635.1	675.9	720.7	767.2
145°	464.7	476.5	492.8	515.1	541.0	571.5	603.2	637.2	673.6	711.1	748.7
147.5°	483.2	493.5	510.5	529.0	552.2	580.9	608.5	638.3	669.3	702.5	733.5
150°	496.3	505.7	519.9	537.5	559.8	585.5	611.4	638.3	666.5	695.9	724.1
152.5°	507.7	517.1	530.2	545.9	566.3	589.4	613.3	636.5	661.9	688.3	713.7
155°	525.7	532.7	544.5	557.4	575.0	594.9	614.9	633.7	654.8	677.1	698.2
157.5°	541.2	547.8	556.9	568.2	582.1	599.0	614.9	630.7	647.5	665.6	681.6
160°	551.5	556.2	564.4	573.8	586.7	600.8	614.9	627.8	641.9	657.1	671.3
162.5°	560.0	563.7	571.0	579.5	589.6	602.7	614.9	625.0	636.2	649.6	660.9
165°	571.5	573.8	579.7	585.5	592.6	603.2	612.6	619.6	627.8	637.2	646.6
167.5°	580.9	582.1	586.5	589.8	595.2	602.9	609.8	614.0	619.4	625.9	632.8
170°	585.5	586.7	590.3	592.6	596.1	602.0	607.8	610.2	613.7	618.4	624.3
172.5°	590.3	590.5	593.1	594.5	597.0	601.1	606.0	606.4	608.0	611.9	616.7
175°	594.9	594.9	596.1	597.3	597.3	599.7	603.2	602.0	602.0	604.3	606.7
177.5°	597.3	596.3	597.3	597.3	597.3	598.2	600.1	598.2	598.2	599.2	600.1
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1817.7	1819.9	1821.6	1827.1	1827.7	1832.7	1827.7
5°	1968.0	1977.8	1993.2	2008.5	2009.9	2019.6	2002.3
7.5°	2136.7	2159.3	2173.4	2198.3	2208.1	2214.1	2204.1
10°	2252.8	2273.8	2310.8	2329.0	2347.1	2349.9	2341.5
12.5°	2365.1	2398.3	2427.5	2461.8	2461.0	2485.6	2476.7
15°	2514.7	2548.9	2589.3	2627.8	2641.7	2641.7	2652.9
17.5°	2621.3	2684.0	2725.9	2756.0	2789.0	2794.7	2790.9
20°	2693.4	2761.1	2805.8	2844.9	2867.2	2873.5	2873.5
22.5°	2746.9	2804.6	2848.2	2883.4	2901.8	2909.2	2907.0
25°	2784.1	2833.7	2860.2	2870.6	2875.6	2874.2	2860.9
27.5°	2733.3	2731.1	2714.3	2682.2	2658.1	2643.4	2626.7
30°	2636.2	2599.8	2557.9	2511.8	2452.6	2407.1	2393.2
32.5°	2491.4	2409.9	2338.9	2262.2	2198.4	2153.0	2134.0
35°	2211.7	2082.5	1977.1	1884.9	1818.0	1776.0	1762.1
37.5°	1879.7	1754.6	1624.2	1534.8	1479.1	1436.8	1421.1
40°	1668.5	1532.4	1418.6	1334.8	1277.6	1236.4	1235.7
42.5°	1475.8	1345.8	1238.8	1178.4	1116.7	1089.4	1089.3
45°	1208.4	1104.4	1013.7	966.2	929.2	906.9	900.6
47.5°	1000.6	914.5	854.0	816.3	786.1	771.8	762.7
50°	883.8	808.4	760.2	727.4	710.6	692.6	691.2
52.5°	786.7	725.8	688.2	661.6	640.4	629.4	629.8
55°	661.2	613.0	586.4	566.1	549.5	541.1	537.6
57.5°	556.9	520.8	501.5	482.9	475.8	469.3	467.5
60°	492.2	467.8	449.6	434.9	424.4	422.3	421.6
62.5°	438.6	413.0	400.4	389.1	381.4	378.2	377.0
65°	361.6	342.7	331.6	322.6	319.7	314.9	314.2
67.5°	291.5	280.2	272.9	266.5	262.8	262.5	262.5
70°	248.5	242.3	236.0	232.5	230.4	228.9	228.9
72.5°	211.7	207.0	201.9	200.1	199.7	198.2	197.7
75°	161.3	156.4	157.0	153.6	150.8	147.3	145.2
77.5°	114.3	110.9	110.2	109.8	107.3	106.9	108.1
80°	88.7	85.1	84.4	85.1	84.4	82.4	82.4
82.5°	67.5	64.5	63.8	63.4	62.7	63.4	62.3
85°	36.3	34.9	34.9	34.9	36.3	35.6	34.9
87.5°	17.3	17.0	17.6	17.2	17.5	16.7	17.2
90°	22.3	23.4	23.4	24.6	25.9	24.6	24.6
92.5°	173.4	138.0	114.5	100.7	94.3	90.4	90.4
95°	687.6	530.4	416.6	359.1	322.8	301.5	286.3
97.5°	1217.1	1102.4	979.9	895.5	825.0	789.7	765.4
100°	1438.7	1381.2	1294.3	1192.2	1120.6	1085.5	1076.1
102.5°	1525.0	1541.7	1505.5	1442.9	1391.0	1353.9	1346.5
105°	1517.3	1633.5	1681.5	1683.9	1674.6	1658.1	1651.0
107.5°	1396.4	1560.0	1664.7	1722.6	1749.4	1761.1	1764.2
110°	1302.5	1472.7	1601.7	1685.1	1734.3	1755.5	1766.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1219.9	1380.7	1509.7	1604.4	1664.0	1693.5	1710.7
115°	1125.4	1262.6	1375.3	1468.0	1538.4	1576.0	1585.4
117.5°	1071.4	1179.3	1274.9	1353.9	1413.1	1451.1	1458.3
120°	1047.9	1141.8	1225.1	1292.0	1343.6	1374.1	1387.0
122.5°	1032.9	1118.3	1191.3	1247.9	1292.0	1317.8	1330.7
125°	1009.2	1090.1	1154.7	1201.6	1235.7	1258.0	1265.0
127.5°	981.3	1062.0	1123.3	1170.4	1200.7	1219.5	1226.5
130°	958.8	1038.5	1100.8	1148.8	1178.1	1196.9	1204.0
132.5°	933.4	1011.3	1073.5	1120.6	1153.8	1171.5	1178.6
135°	895.3	966.9	1025.6	1072.6	1105.4	1124.2	1131.3
137.5°	859.0	919.3	972.3	1016.2	1048.6	1064.1	1072.6
140°	835.5	888.3	937.6	978.7	1004.5	1020.9	1030.3
142.5°	815.8	861.1	903.8	940.2	964.1	978.7	985.2
145°	788.6	823.7	856.7	886.0	905.9	917.7	923.5
147.5°	765.1	793.2	819.1	840.7	857.8	866.8	868.8
150°	751.0	774.5	795.6	814.4	829.6	836.7	837.9
152.5°	736.9	758.5	775.9	791.8	804.3	808.5	809.7
155°	717.0	734.6	748.7	760.4	769.8	773.4	773.4
157.5°	697.3	712.1	723.4	732.3	739.3	741.4	741.4
160°	684.1	697.0	706.4	713.5	720.5	721.6	721.6
162.5°	672.0	682.1	690.4	695.6	702.7	703.9	702.9
165°	653.6	661.9	667.7	672.4	677.1	675.9	674.8
167.5°	638.1	644.7	648.2	650.6	653.6	653.4	652.5
170°	627.8	632.5	636.0	638.3	639.5	638.3	638.3
172.5°	619.4	622.2	624.7	626.1	627.3	626.1	624.3
175°	607.8	610.2	610.2	610.2	612.6	610.2	607.8
177.5°	601.1	601.1	602.0	601.1	602.0	600.1	598.2
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3

(END OF REPORT)