

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: P333588-840

Luminaire Tested: **S125RDIP-S1090D590U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333588-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIP-S1090D590U840-4F0-1E-UDD-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6446.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

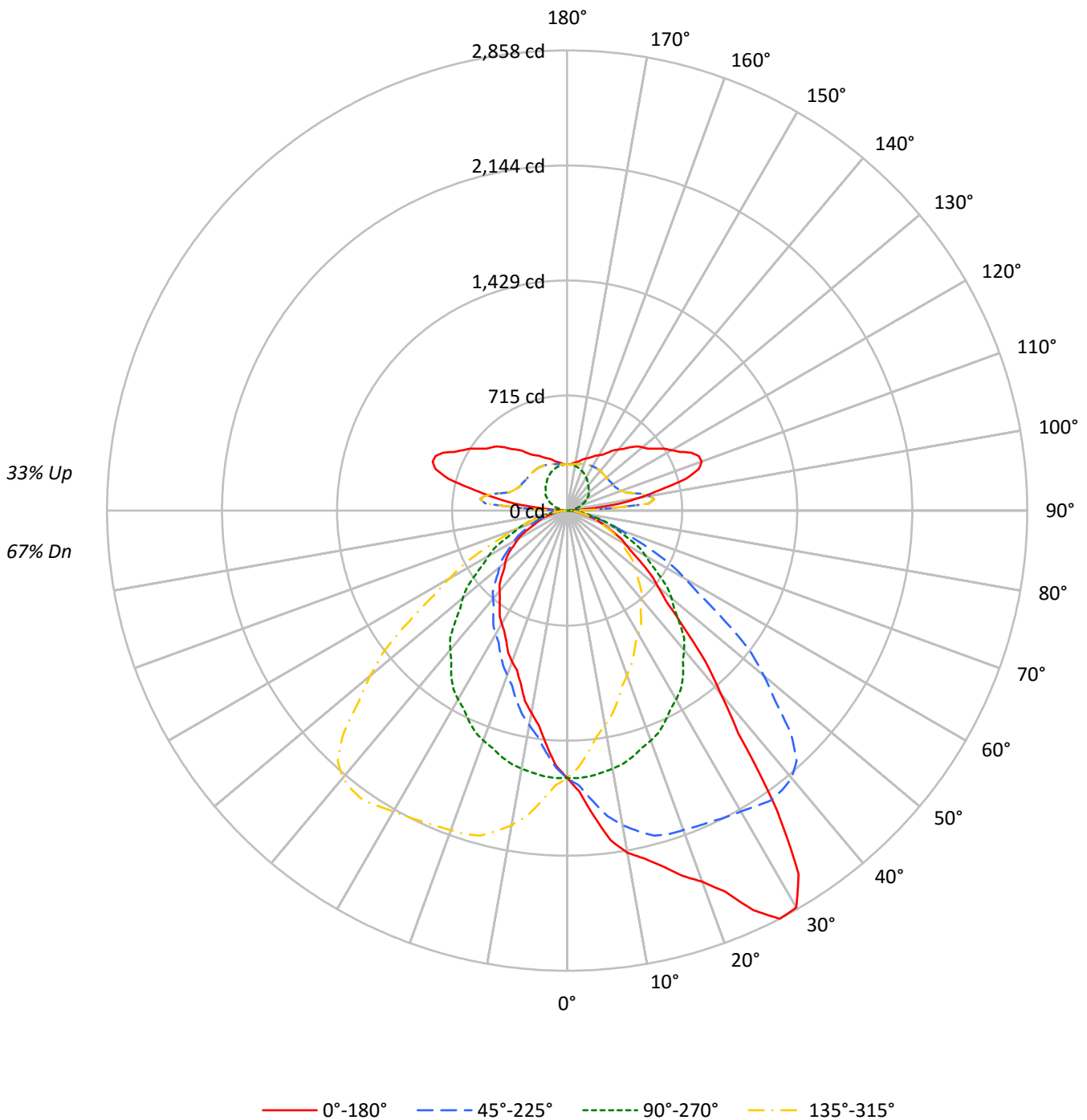
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	72	72	67
1	102	98	94	91	96	92	89	86	82	80	77	73	71	69	64	63	62	57
2	93	86	80	75	88	81	76	72	73	69	65	65	61	59	57	55	53	49
3	86	76	69	63	80	72	66	60	65	59	55	58	54	50	51	48	45	42
4	79	68	60	54	74	64	57	52	58	52	48	52	47	43	46	42	39	36
5	72	61	53	47	68	58	50	45	52	46	41	47	42	38	42	38	35	32
6	67	55	46	41	63	52	45	39	47	41	36	42	37	33	38	34	31	28
7	62	50	41	36	58	47	40	35	43	37	32	38	33	30	35	30	27	25
8	58	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25	22
9	54	41	34	29	51	39	32	28	36	30	26	33	28	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10723	10723	10723	10723
5°	12337	10738	9483	10738
10°	14152	10683	8368	10683
15°	15285	10573	7438	10573
20°	16855	10446	6868	10446
25°	19506	10278	6372	10278
30°	21227	10100	6049	10100
35°	17906	9894	5750	9894
40°	12505	9522	5493	9522
45°	9276	9020	5242	9020
50°	7396	8499	5027	8499
55°	6277	7851	4835	7851
60°	5424	7272	4525	7272
65°	4834	6645	3895	6645
70°	4247	6086	3552	6086
75°	3673	5273	3334	5273
80°	2786	4437	2786	4437
85°	2319	3490	2623	3490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.5
10°-20°	466.6	7.2
20°-30°	739.8	11.5
30°-40°	892.2	13.8
40°-50°	796.7	12.4
50°-60°	611.0	9.5
60°-70°	397.1	6.2
70°-80°	193.0	3.0
80°-90°	47.7	0.7
90°-100°	207.1	3.2
100°-110°	445.2	6.9
110°-120°	417.8	6.5
120°-130°	338.6	5.3
130°-140°	271.7	4.2
140°-150°	205.1	3.2
150°-160°	144.3	2.2
160°-170°	85.1	1.3
170°-180°	27.7	0.4
0°-30°	1365.7	21.2
0°-40°	2257.9	35.0
0°-60°	3665.6	56.9
0°-90°	4303.4	66.8
90°-120°	1070.2	16.6
90°-150°	1885.6	29.3
90°-180°	2143.0	33.2
0°-180°	6446.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1903	1656	1463	1656	1903	190
15°	2286	1581	1112	1581	2286	655
25°	2737	1442	894	1442	2737	1257
35°	2271	1255	729	1255	2271	1372
45°	1016	988	574	988	1016	810
55°	558	697	429	697	558	506
65°	316	435	255	435	316	315
75°	147	211	134	211	147	157
85°	31	47	35	47	31	36
90°	13	1	13	1	13	11
95°	135	19	135	19	135	192
105°	763	65	763	65	763	759
115°	850	116	850	116	850	831
125°	670	161	670	161	670	606
135°	556	189	556	189	556	431
145°	439	220	439	220	439	279
155°	368	251	368	251	368	172
165°	323	274	323	274	323	92
175°	290	285	290	285	290	28
180°	286	286	286	286	286	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1746.6	1745.5	1747.7	1741.6	1742.2	1732.9	1732.9	1725.9	1716.6	1709.5	1706.2
5°	1903.0	1904.4	1901.7	1891.5	1884.6	1874.4	1862.8	1842.4	1825.3	1809.0	1796.0
7.5°	2064.2	2065.1	2056.1	2053.0	2035.8	2023.3	1997.5	1969.6	1945.0	1913.7	1889.7
10°	2158.0	2157.3	2147.7	2140.2	2125.3	2106.2	2080.9	2048.2	2017.5	1983.5	1950.8
12.5°	2212.5	2210.7	2207.7	2198.6	2184.6	2167.8	2146.4	2114.2	2076.4	2039.1	2000.9
15°	2286.1	2281.3	2272.5	2260.9	2241.1	2221.3	2197.5	2168.9	2132.7	2090.4	2055.1
17.5°	2377.1	2377.3	2363.7	2347.5	2320.7	2285.8	2249.0	2202.8	2153.7	2107.3	2069.5
20°	2452.4	2450.3	2436.7	2405.4	2374.7	2331.1	2288.9	2232.2	2172.2	2111.6	2064.6
22.5°	2560.4	2555.1	2540.8	2499.7	2452.2	2396.0	2331.4	2262.2	2189.7	2120.8	2059.1
25°	2737.3	2733.2	2705.2	2657.6	2590.8	2504.2	2419.6	2324.9	2220.7	2130.0	2055.1
27.5°	2858.3	2853.9	2833.2	2793.5	2731.9	2640.8	2526.4	2399.7	2269.6	2144.9	2036.8
30°	2846.4	2856.6	2853.9	2835.5	2789.1	2707.3	2601.7	2459.2	2304.5	2158.0	2029.1
32.5°	2675.1	2684.3	2708.3	2744.4	2747.1	2714.4	2635.4	2504.0	2343.8	2177.1	2023.2
35°	2271.1	2283.4	2329.8	2402.7	2498.1	2577.8	2594.1	2523.2	2379.4	2200.2	2014.2
37.5°	1746.0	1813.0	1852.1	1928.8	2073.1	2219.7	2360.8	2412.8	2351.5	2190.7	1999.5
40°	1483.2	1499.5	1569.0	1655.6	1777.0	1929.7	2130.7	2275.8	2280.7	2168.9	1976.6
42.5°	1269.4	1290.1	1337.9	1406.9	1510.9	1663.6	1871.2	2062.6	2151.4	2108.9	1946.6
45°	1015.6	1031.3	1066.0	1119.2	1198.9	1325.0	1503.6	1725.2	1901.0	1969.8	1866.2
47.5°	834.2	842.7	873.0	913.5	972.5	1064.4	1202.6	1394.9	1605.9	1753.7	1739.2
50°	736.1	745.7	768.8	799.5	849.3	927.0	1037.4	1197.6	1415.0	1595.6	1631.7
52.5°	659.7	667.7	682.2	711.1	752.2	811.9	901.1	1046.0	1241.6	1433.7	1517.2
55°	557.5	563.0	574.6	591.0	623.7	666.6	743.7	843.8	1002.0	1195.5	1318.2
57.5°	473.3	476.1	483.4	498.6	521.2	552.5	608.1	693.1	806.5	980.8	1116.2
60°	419.9	422.6	432.1	442.3	460.1	488.7	532.3	591.6	700.6	844.6	981.5
62.5°	377.3	379.0	383.0	393.2	408.8	430.9	465.2	513.6	600.4	726.7	856.1
65°	316.3	316.9	318.3	326.5	336.0	352.3	374.9	409.0	474.4	569.9	684.3
67.5°	257.6	258.6	263.4	266.2	276.2	284.8	298.0	324.1	370.1	434.4	523.5
70°	224.9	224.3	229.0	232.5	235.8	246.1	254.9	276.1	304.7	353.8	428.1
72.5°	194.4	192.6	194.7	195.9	200.4	207.3	216.2	229.1	251.3	285.1	341.9
75°	147.2	147.9	147.9	149.3	152.7	155.4	158.1	164.9	177.2	199.8	230.4
77.5°	103.3	102.2	105.1	105.5	107.6	110.6	112.9	115.6	120.7	129.9	145.7
80°	74.9	74.9	75.6	77.7	77.1	78.4	81.8	84.5	90.7	96.1	101.6
82.5°	57.6	57.0	57.7	58.1	58.0	59.3	60.5	61.1	63.4	66.1	69.9
85°	31.3	31.3	32.0	32.0	32.7	32.7	33.4	33.4	33.4	34.0	34.7
87.5°	14.6	14.1	13.4	13.4	13.9	14.8	14.1	13.5	13.4	13.3	13.6
90°	13.2	13.2	12.6	12.6	12.6	11.5	10.9	10.4	9.8	9.2	8.1
92.5°	36.8	37.7	38.5	39.9	47.3	55.7	74.1	102.1	150.4	185.7	188.7
95°	135.4	144.6	149.2	166.5	207.4	255.8	326.6	414.1	499.5	510.4	416.5
97.5°	327.2	334.6	351.2	383.5	419.1	486.5	555.4	616.8	632.0	545.0	371.9
100°	449.3	458.6	479.9	521.3	561.1	621.0	680.3	708.5	664.2	520.2	331.8
102.5°	585.7	592.7	615.8	645.3	687.8	728.3	756.8	739.4	644.8	476.4	301.3
105°	763.3	770.2	781.7	800.7	819.1	825.5	800.1	721.2	583.0	417.7	271.9
107.5°	857.5	862.1	866.0	866.1	856.7	826.7	761.5	656.2	519.9	377.2	259.4
110°	888.9	888.9	884.8	873.8	848.0	799.0	717.8	608.3	483.9	358.3	255.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	885.1	881.0	871.0	852.2	814.4	756.6	674.5	570.6	457.2	347.3	255.8
115°	850.3	842.7	826.7	799.0	754.1	691.3	612.4	523.0	428.0	335.3	257.5
117.5°	789.1	784.5	768.5	739.9	695.0	637.3	569.4	492.4	410.6	329.4	261.3
120°	749.4	744.9	729.3	701.7	659.0	608.3	544.9	475.8	400.9	326.6	265.0
122.5°	714.4	710.2	694.7	669.3	631.4	583.9	527.5	463.4	392.6	324.4	268.2
125°	669.9	664.2	651.6	627.9	595.6	554.2	504.0	445.2	381.3	321.4	273.7
127.5°	632.0	629.3	617.4	596.5	567.3	528.5	481.7	426.9	371.0	320.0	279.7
130°	611.2	607.7	596.2	577.2	548.4	511.0	466.1	415.4	364.1	319.1	283.5
132.5°	590.5	586.5	575.9	556.9	528.2	492.1	451.3	403.8	358.5	319.1	287.6
135°	556.4	553.0	542.6	523.6	498.3	465.4	428.6	388.8	351.9	319.1	293.2
137.5°	520.2	516.3	506.9	489.5	466.9	439.0	408.3	376.2	346.1	319.8	298.4
140°	494.8	491.9	483.3	468.4	447.1	422.8	396.4	369.2	343.4	320.3	300.7
142.5°	471.3	468.9	460.7	448.1	430.0	409.0	386.2	363.2	341.0	320.7	302.1
145°	439.0	436.7	430.3	420.5	406.7	391.1	373.2	355.5	337.6	320.3	303.6
147.5°	411.5	410.5	406.8	399.0	388.0	376.3	362.5	348.1	334.0	318.8	304.2
150°	396.4	395.8	393.4	386.6	377.9	367.5	356.6	343.9	331.2	317.4	304.2
152.5°	384.4	383.7	381.4	376.0	368.7	360.6	350.6	339.3	328.0	315.6	303.7
155°	368.1	367.5	365.8	361.7	356.0	349.6	341.6	332.3	322.6	312.3	302.5
157.5°	353.6	353.7	352.0	348.7	344.3	339.3	333.1	325.5	317.5	308.7	300.9
160°	343.9	344.5	343.4	340.4	336.4	332.3	326.6	320.8	313.4	306.5	299.5
162.5°	335.2	335.3	335.1	332.6	329.5	325.9	321.1	315.8	309.7	303.7	298.2
165°	322.6	322.6	322.6	321.4	319.1	316.3	312.8	308.7	304.2	299.5	296.1
167.5°	311.0	311.1	311.6	310.6	309.4	307.4	304.8	302.1	298.7	295.5	292.9
170°	304.2	304.8	304.8	304.2	303.0	301.8	300.1	298.4	295.5	293.2	291.4
172.5°	297.7	298.3	299.2	298.2	297.9	297.2	296.0	294.3	292.3	290.4	289.6
175°	289.7	290.3	291.4	290.9	290.9	290.9	289.7	289.7	288.0	287.4	287.4
177.5°	285.7	285.7	287.1	286.6	287.1	287.1	287.1	286.6	286.2	285.7	285.7
180°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1706.2	1702.3	1695.3	1688.7	1680.5	1673.4	1668.6	1662.5	1655.0	1645.7	1638.0
5°	1781.7	1766.7	1747.0	1729.9	1708.1	1691.0	1673.3	1656.3	1639.2	1617.4	1598.3
7.5°	1865.4	1834.4	1804.3	1766.5	1732.1	1701.4	1671.9	1642.1	1613.0	1582.0	1552.2
10°	1916.6	1879.2	1837.6	1789.9	1746.3	1704.7	1666.5	1629.0	1589.5	1554.7	1517.2
12.5°	1964.7	1916.2	1868.7	1808.5	1756.1	1705.3	1656.7	1609.9	1567.7	1522.6	1482.4
15°	2008.0	1960.2	1907.1	1833.5	1760.6	1699.2	1641.9	1581.3	1528.8	1478.3	1433.4
17.5°	2024.8	1974.7	1913.0	1842.2	1762.5	1685.4	1611.5	1545.1	1483.3	1424.5	1373.9
20°	2018.2	1969.8	1906.4	1839.0	1753.7	1673.3	1593.6	1519.9	1451.2	1389.1	1335.2
22.5°	2002.4	1952.4	1891.2	1819.9	1739.0	1653.7	1568.5	1490.0	1417.9	1353.6	1294.9
25°	1978.7	1910.6	1847.9	1778.3	1701.3	1616.8	1528.8	1442.3	1365.2	1299.8	1235.8
27.5°	1954.0	1869.0	1789.2	1720.1	1638.7	1563.3	1478.5	1389.8	1308.8	1242.1	1176.4
30°	1931.7	1836.2	1748.3	1669.9	1592.9	1521.4	1440.9	1354.3	1271.2	1202.3	1135.6
32.5°	1903.8	1802.4	1705.8	1615.4	1541.1	1470.1	1397.2	1314.5	1233.6	1162.6	1094.7
35°	1869.0	1739.5	1634.5	1538.3	1455.9	1387.0	1321.6	1254.9	1173.8	1100.1	1034.0
37.5°	1823.1	1676.2	1554.7	1450.1	1363.0	1293.9	1242.2	1181.2	1107.2	1036.7	975.3
40°	1795.3	1630.4	1497.4	1393.9	1302.5	1229.6	1181.2	1129.4	1062.0	995.8	934.4
42.5°	1758.3	1588.4	1439.7	1331.7	1239.8	1169.6	1120.6	1075.4	1018.9	956.5	890.8
45°	1685.6	1507.0	1350.9	1235.1	1142.4	1073.5	1027.8	987.6	944.7	887.5	830.2
47.5°	1590.9	1422.1	1258.8	1132.3	1041.5	977.5	933.2	901.5	870.8	822.1	766.5
50°	1515.2	1352.3	1192.8	1070.2	973.3	912.6	871.1	845.9	817.9	773.7	727.3
52.5°	1425.7	1280.3	1124.1	998.7	907.4	850.5	810.5	785.4	762.3	726.2	682.0
55°	1284.9	1157.4	1014.2	900.4	816.6	759.3	721.1	697.3	683.7	653.0	618.2
57.5°	1122.2	1030.9	904.6	794.9	720.7	664.2	636.2	615.9	600.5	578.9	554.3
60°	1008.8	944.7	831.5	727.3	659.1	605.2	580.1	563.0	548.7	530.3	511.2
62.5°	893.7	847.1	748.7	659.1	596.4	551.3	527.7	512.3	495.8	483.4	464.8
65°	739.5	697.9	629.8	559.6	501.7	465.5	448.5	434.8	424.6	411.0	398.1
67.5°	575.3	558.4	511.3	462.9	421.3	389.2	374.5	365.0	352.6	344.5	335.6
70°	474.4	466.3	432.8	400.8	361.9	340.1	326.5	322.3	307.4	299.2	293.1
72.5°	385.0	381.1	361.9	339.7	312.4	293.3	280.6	276.1	266.5	259.9	256.0
75°	263.8	265.2	261.8	247.4	237.2	224.9	214.0	211.3	204.5	199.0	195.6
77.5°	166.8	173.8	174.1	173.4	169.4	161.8	157.3	155.3	148.6	146.5	145.7
80°	114.5	122.0	128.9	128.2	126.7	124.7	121.3	119.3	115.8	113.8	112.5
82.5°	76.3	83.3	89.0	92.7	92.4	90.4	88.1	87.2	86.4	84.9	84.6
85°	36.2	37.5	39.5	44.3	47.7	48.4	47.7	47.1	44.9	45.6	46.4
87.5°	14.0	13.8	14.2	14.0	13.2	15.8	17.2	17.6	16.6	15.8	14.8
90°	7.5	6.4	5.8	4.6	3.4	2.3	1.1	0.6	1.1	2.3	3.4
92.5°	131.5	78.7	47.3	30.4	20.5	13.3	8.5	7.1	8.5	13.3	20.5
95°	257.5	130.8	69.2	43.2	30.5	24.2	19.6	19.0	19.6	24.2	30.5
97.5°	205.5	112.7	71.9	53.2	41.8	35.4	32.2	31.6	32.2	35.4	41.8
100°	186.6	111.8	78.4	61.1	50.1	43.8	41.5	40.3	41.5	43.8	50.1
102.5°	178.8	115.9	86.1	69.4	59.4	52.5	50.7	50.0	50.7	52.5	59.4
105°	175.7	124.4	99.1	82.9	73.7	68.0	65.1	65.1	65.1	68.0	73.7
107.5°	181.0	137.1	112.6	98.1	88.5	83.7	81.0	79.9	81.0	83.7	88.5
110°	186.0	146.3	122.7	107.8	99.1	93.9	91.6	90.5	91.6	93.9	99.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	192.5	155.1	132.4	117.9	109.3	104.0	102.2	101.1	102.2	104.0	109.3
115°	202.2	168.7	147.4	133.1	124.4	119.3	117.5	116.3	117.5	119.3	124.4
117.5°	213.3	182.9	162.7	148.8	139.0	133.8	131.9	130.2	131.9	133.8	139.0
120°	220.7	193.0	172.8	158.4	148.7	143.4	141.2	139.4	141.2	143.4	148.7
122.5°	228.9	202.7	182.5	168.1	157.3	152.2	150.4	149.1	150.4	152.2	157.3
125°	240.2	215.4	196.4	181.5	170.5	165.3	162.5	161.3	162.5	165.3	170.5
127.5°	250.5	227.7	209.4	194.5	182.9	176.3	172.6	170.9	172.6	176.3	182.9
130°	257.5	235.6	217.7	202.8	190.7	183.2	178.5	176.8	178.5	183.2	190.7
132.5°	263.5	243.0	225.1	210.2	197.6	189.1	183.7	181.5	183.7	189.1	197.6
135°	271.9	252.9	235.0	219.4	207.4	198.1	191.3	188.9	191.3	198.1	207.4
137.5°	278.1	259.9	243.7	227.6	215.8	206.6	200.2	198.4	200.2	206.6	215.8
140°	282.3	265.0	248.3	232.8	221.8	212.6	205.6	203.9	205.6	212.6	221.8
142.5°	284.6	268.2	252.5	237.8	227.3	218.1	211.7	210.4	211.7	218.1	227.3
145°	288.0	273.7	258.6	245.4	235.0	226.9	221.2	220.0	221.2	226.9	235.0
147.5°	290.1	277.1	264.0	252.3	243.3	235.8	230.9	230.1	230.9	235.8	243.3
150°	291.4	279.4	266.7	256.9	248.8	241.4	237.3	236.2	237.3	241.4	248.8
152.5°	292.4	281.7	269.9	261.1	253.5	246.9	243.3	242.7	243.3	246.9	253.5
155°	293.2	284.0	274.2	266.1	260.3	254.6	251.2	251.2	251.2	254.6	260.3
157.5°	293.8	286.0	277.5	271.5	266.4	261.5	258.6	258.7	258.6	261.5	266.4
160°	293.8	286.9	279.4	274.2	269.6	265.6	263.3	263.9	263.3	265.6	269.6
162.5°	293.4	287.8	281.2	277.0	273.3	269.7	267.4	268.0	267.4	269.7	273.3
165°	292.7	288.0	283.5	279.9	277.6	274.8	273.1	274.2	273.1	274.8	277.6
167.5°	291.2	288.0	284.2	282.1	280.4	278.8	277.8	278.3	277.8	278.8	280.4
170°	290.3	288.0	285.2	283.5	282.3	281.1	280.5	281.1	280.5	281.1	282.3
172.5°	289.4	287.6	285.2	284.4	283.7	282.5	282.0	283.0	282.0	282.5	283.7
175°	288.0	286.9	285.2	285.2	285.2	284.6	284.0	285.2	284.0	284.6	285.2
177.5°	286.6	286.2	285.3	285.3	285.7	285.3	285.3	286.2	285.3	285.3	285.7
180°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7



TEST NUMBER: P333588-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1632.5	1625.0	1619.5	1608.6	1600.9	1597.7	1591.6	1590.0	1596.0	1591.6	1591.1
5°	1584.1	1564.3	1548.6	1532.9	1515.9	1505.0	1488.6	1485.9	1481.8	1475.6	1474.3
7.5°	1525.8	1500.1	1479.9	1454.0	1431.5	1413.4	1392.9	1383.2	1378.0	1370.0	1359.4
10°	1486.5	1455.9	1428.7	1402.7	1374.8	1352.3	1331.8	1316.2	1306.0	1296.4	1292.3
12.5°	1447.8	1416.6	1381.7	1350.4	1319.2	1293.9	1271.3	1261.1	1249.8	1238.6	1229.1
15°	1387.8	1346.2	1308.0	1271.8	1245.3	1218.0	1196.2	1181.2	1164.2	1159.4	1141.0
17.5°	1323.9	1283.1	1238.5	1200.4	1169.6	1139.6	1115.6	1098.6	1085.8	1068.2	1059.8
20°	1284.1	1235.8	1192.1	1157.4	1123.3	1087.8	1063.3	1048.9	1036.7	1022.4	1015.6
22.5°	1241.6	1194.3	1149.6	1108.8	1074.2	1039.4	1021.9	1007.0	993.1	979.9	970.9
25°	1179.1	1131.5	1084.4	1042.2	1006.0	980.8	960.4	943.3	935.8	922.9	913.3
27.5°	1117.4	1066.7	1017.9	975.7	947.5	922.5	905.7	892.2	878.7	867.4	859.1
30°	1077.6	1025.8	972.6	939.3	909.3	885.3	867.0	854.0	843.8	833.6	827.5
32.5°	1037.8	984.4	937.2	901.1	872.7	852.1	833.1	820.8	810.0	798.7	791.4
35°	974.0	919.5	881.3	845.9	817.9	798.8	785.9	768.2	759.3	751.1	743.7
37.5°	914.7	864.0	822.7	791.6	767.3	748.4	731.6	722.1	711.1	703.8	697.5
40°	871.1	824.8	787.3	754.6	736.8	715.7	700.0	687.7	679.5	670.0	663.2
42.5°	831.8	788.7	752.3	722.9	700.8	683.0	667.8	655.6	645.2	638.4	632.7
45°	776.4	733.4	697.9	670.7	650.3	633.2	617.5	611.4	597.7	589.6	586.8
47.5°	718.9	680.5	646.3	621.2	600.3	584.1	569.4	556.8	549.4	541.3	536.9
50°	680.2	643.4	611.4	586.8	566.4	548.7	535.0	526.8	516.6	509.2	503.7
52.5°	641.6	607.4	575.4	552.0	534.2	516.5	501.3	493.1	483.4	478.6	474.8
55°	586.2	550.1	522.8	499.6	481.2	464.8	450.5	442.3	436.3	431.4	430.1
57.5°	523.5	494.8	469.5	448.6	429.5	414.1	401.6	393.8	388.4	387.7	383.6
60°	482.6	456.7	433.5	411.0	394.7	380.3	369.4	360.5	355.1	354.5	353.0
62.5°	441.7	416.9	395.4	375.6	360.8	347.1	336.7	326.8	323.5	320.1	317.1
65°	381.0	358.5	340.8	325.1	309.4	297.8	287.6	281.6	274.0	269.9	262.5
67.5°	321.4	304.0	287.0	273.8	261.5	250.4	242.0	232.9	227.8	224.5	219.0
70°	282.2	268.5	251.6	237.2	227.6	218.8	212.0	201.8	198.3	195.6	192.9
72.5°	245.1	233.1	218.8	207.2	197.6	189.3	181.5	176.6	173.3	170.6	169.0
75°	192.9	181.3	169.1	160.9	154.0	147.2	143.1	139.8	138.4	137.6	134.9
77.5°	141.7	135.5	125.7	119.2	114.6	111.9	108.3	106.4	106.3	103.3	102.4
80°	108.4	104.9	96.7	94.0	90.7	88.0	85.8	82.5	79.1	77.7	75.6
82.5°	80.6	77.2	73.9	69.5	66.7	65.0	63.0	61.7	62.2	60.3	59.3
85°	42.9	39.5	38.2	37.5	36.2	37.5	36.8	36.2	35.4	34.7	35.4
87.5°	14.5	14.7	14.3	15.7	14.1	14.9	15.0	14.6	14.7	14.8	14.5
90°	4.6	5.8	6.4	7.5	8.1	9.2	9.8	10.4	10.9	11.5	12.6
92.5°	30.4	47.3	78.7	131.5	188.7	185.7	150.4	102.1	74.1	55.7	47.3
95°	43.2	69.2	130.8	257.5	416.5	510.4	499.5	414.1	326.6	255.8	207.4
97.5°	53.2	71.9	112.7	205.5	371.9	545.0	632.0	616.8	555.4	486.5	419.1
100°	61.1	78.4	111.8	186.6	331.8	520.2	664.2	708.5	680.3	621.0	561.1
102.5°	69.4	86.1	115.9	178.8	301.3	476.4	644.8	739.4	756.8	728.3	687.8
105°	82.9	99.1	124.4	175.7	271.9	417.7	583.0	721.2	800.1	825.5	819.1
107.5°	98.1	112.6	137.1	181.0	259.4	377.2	519.9	656.2	761.5	826.7	856.7
110°	107.8	122.7	146.3	186.0	255.8	358.3	483.9	608.3	717.8	799.0	848.0



TEST NUMBER: P333588-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.9	132.4	155.1	192.5	255.8	347.3	457.2	570.6	674.5	756.6	814.4
115°	133.1	147.4	168.7	202.2	257.5	335.3	428.0	523.0	612.4	691.3	754.1
117.5°	148.8	162.7	182.9	213.3	261.3	329.4	410.6	492.4	569.4	637.3	695.0
120°	158.4	172.8	193.0	220.7	265.0	326.6	400.9	475.8	544.9	608.3	659.0
122.5°	168.1	182.5	202.7	228.9	268.2	324.4	392.6	463.4	527.5	583.9	631.4
125°	181.5	196.4	215.4	240.2	273.7	321.4	381.3	445.2	504.0	554.2	595.6
127.5°	194.5	209.4	227.7	250.5	279.7	320.0	371.0	426.9	481.7	528.5	567.3
130°	202.8	217.7	235.6	257.5	283.5	319.1	364.1	415.4	466.1	511.0	548.4
132.5°	210.2	225.1	243.0	263.5	287.6	319.1	358.5	403.8	451.3	492.1	528.2
135°	219.4	235.0	252.9	271.9	293.2	319.1	351.9	388.8	428.6	465.4	498.3
137.5°	227.6	243.7	259.9	278.1	298.4	319.8	346.1	376.2	408.3	439.0	466.9
140°	232.8	248.3	265.0	282.3	300.7	320.3	343.4	369.2	396.4	422.8	447.1
142.5°	237.8	252.5	268.2	284.6	302.1	320.7	341.0	363.2	386.2	409.0	430.0
145°	245.4	258.6	273.7	288.0	303.6	320.3	337.6	355.5	373.2	391.1	406.7
147.5°	252.3	264.0	277.1	290.1	304.2	318.8	334.0	348.1	362.5	376.3	388.0
150°	256.9	266.7	279.4	291.4	304.2	317.4	331.2	343.9	356.6	367.5	377.9
152.5°	261.1	269.9	281.7	292.4	303.7	315.6	328.0	339.3	350.6	360.6	368.7
155°	266.1	274.2	284.0	293.2	302.5	312.3	322.6	332.3	341.6	349.6	356.0
157.5°	271.5	277.5	286.0	293.8	300.9	308.7	317.5	325.5	333.1	339.3	344.3
160°	274.2	279.4	286.9	293.8	299.5	306.5	313.4	320.8	326.6	332.3	336.4
162.5°	277.0	281.2	287.8	293.4	298.2	303.7	309.7	315.8	321.1	325.9	329.5
165°	279.9	283.5	288.0	292.7	296.1	299.5	304.2	308.7	312.8	316.3	319.1
167.5°	282.1	284.2	288.0	291.2	292.9	295.5	298.7	302.1	304.8	307.4	309.4
170°	283.5	285.2	288.0	290.3	291.4	293.2	295.5	298.4	300.1	301.8	303.0
172.5°	284.4	285.2	287.6	289.4	289.6	290.4	292.3	294.3	296.0	297.2	297.9
175°	285.2	285.2	286.9	288.0	287.4	287.4	288.0	289.7	289.7	290.9	290.9
177.5°	285.3	285.3	286.2	286.6	285.7	285.7	286.2	286.6	287.1	287.1	287.1
180°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7



TEST NUMBER: P333588-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1590.5	1584.6	1583.0	1585.1	1583.0	1584.6	1590.5	1591.1	1591.6	1596.0	1590.0
5°	1467.5	1460.7	1464.1	1462.7	1464.1	1460.7	1467.5	1474.3	1475.6	1481.8	1485.9
7.5°	1359.3	1350.8	1341.8	1344.6	1341.8	1350.8	1359.3	1359.4	1370.0	1378.0	1383.2
10°	1283.4	1276.7	1272.5	1276.0	1272.5	1276.7	1283.4	1292.3	1296.4	1306.0	1316.2
12.5°	1219.6	1215.6	1212.0	1210.5	1212.0	1215.6	1219.6	1229.1	1238.6	1249.8	1261.1
15°	1132.9	1124.7	1121.3	1112.4	1121.3	1124.7	1132.9	1141.0	1159.4	1164.2	1181.2
17.5°	1052.8	1050.1	1041.2	1037.4	1041.2	1050.1	1052.8	1059.8	1068.2	1085.8	1098.6
20°	1005.3	1002.6	993.8	999.3	993.8	1002.6	1005.3	1015.6	1022.4	1036.7	1048.9
22.5°	966.1	960.1	957.3	955.6	957.3	960.1	966.1	970.9	979.9	993.1	1007.0
25°	910.6	901.7	898.4	894.2	898.4	901.7	910.6	913.3	922.9	935.8	943.3
27.5°	855.3	850.5	846.0	845.0	846.0	850.5	855.3	859.1	867.4	878.7	892.2
30°	819.3	814.6	811.1	811.1	811.1	814.6	819.3	827.5	833.6	843.8	854.0
32.5°	787.1	783.5	780.0	779.5	780.0	783.5	787.1	791.4	798.7	810.0	820.8
35°	740.2	734.8	733.4	729.3	733.4	734.8	740.2	743.7	751.1	759.3	768.2
37.5°	691.6	687.0	686.9	686.5	686.9	687.0	691.6	697.5	703.8	711.1	722.1
40°	660.5	657.0	656.4	651.6	656.4	657.0	660.5	663.2	670.0	679.5	687.7
42.5°	627.2	625.4	623.1	621.1	623.1	625.4	627.2	632.7	638.4	645.2	655.6
45°	582.1	577.3	577.3	573.9	577.3	577.3	582.1	586.8	589.6	597.7	611.4
47.5°	535.4	531.8	532.2	528.7	532.2	531.8	535.4	536.9	541.3	549.4	556.8
50°	504.4	502.3	501.7	500.3	501.7	502.3	504.4	503.7	509.2	516.6	526.8
52.5°	473.3	472.3	474.9	471.9	474.9	472.3	473.3	474.8	478.6	483.4	493.1
55°	431.4	429.4	433.5	429.4	433.5	429.4	431.4	430.1	431.4	436.3	442.3
57.5°	383.3	381.4	385.1	383.0	385.1	381.4	383.3	383.6	387.7	388.4	393.8
60°	351.7	347.6	349.6	350.3	349.6	347.6	351.7	353.0	354.5	355.1	360.5
62.5°	314.1	311.6	313.2	310.0	313.2	311.6	314.1	317.1	320.1	323.5	326.8
65°	261.1	259.0	256.3	254.9	256.3	259.0	261.1	262.5	269.9	274.0	281.6
67.5°	219.3	214.4	214.3	215.4	214.3	214.4	219.3	219.0	224.5	227.8	232.9
70°	188.8	188.8	188.1	188.1	188.1	188.8	188.8	192.9	195.6	198.3	201.8
72.5°	167.5	167.0	165.7	165.2	165.7	167.0	167.5	169.0	170.6	173.3	176.6
75°	134.9	135.6	134.3	133.6	134.3	135.6	134.9	134.9	137.6	138.4	139.8
77.5°	99.7	96.7	98.3	96.7	98.3	96.7	99.7	102.4	103.3	106.3	106.4
80°	75.6	74.9	77.1	74.9	77.1	74.9	75.6	75.6	77.7	79.1	82.5
82.5°	59.9	59.2	60.1	58.6	60.1	59.2	59.9	59.3	60.3	62.2	61.7
85°	36.2	35.4	34.7	35.4	34.7	35.4	36.2	35.4	34.7	35.4	36.2
87.5°	15.0	14.5	14.6	14.6	14.6	14.5	15.0	14.5	14.8	14.7	14.6
90°	12.6	12.6	13.2	13.2	13.2	12.6	12.6	12.6	11.5	10.9	10.4
92.5°	39.9	38.5	37.7	36.8	37.7	38.5	39.9	47.3	55.7	74.1	102.1
95°	166.5	149.2	144.6	135.4	144.6	149.2	166.5	207.4	255.8	326.6	414.1
97.5°	383.5	351.2	334.6	327.2	334.6	351.2	383.5	419.1	486.5	555.4	616.8
100°	521.3	479.9	458.6	449.3	458.6	479.9	521.3	561.1	621.0	680.3	708.5
102.5°	645.3	615.8	592.7	585.7	592.7	615.8	645.3	687.8	728.3	756.8	739.4
105°	800.7	781.7	770.2	763.3	770.2	781.7	800.7	819.1	825.5	800.1	721.2
107.5°	866.1	866.0	862.1	857.5	862.1	866.0	866.1	856.7	826.7	761.5	656.2
110°	873.8	884.8	888.9	888.9	888.9	884.8	873.8	848.0	799.0	717.8	608.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	852.2	871.0	881.0	885.1	881.0	871.0	852.2	814.4	756.6	674.5	570.6
115°	799.0	826.7	842.7	850.3	842.7	826.7	799.0	754.1	691.3	612.4	523.0
117.5°	739.9	768.5	784.5	789.1	784.5	768.5	739.9	695.0	637.3	569.4	492.4
120°	701.7	729.3	744.9	749.4	744.9	729.3	701.7	659.0	608.3	544.9	475.8
122.5°	669.3	694.7	710.2	714.4	710.2	694.7	669.3	631.4	583.9	527.5	463.4
125°	627.9	651.6	664.2	669.9	664.2	651.6	627.9	595.6	554.2	504.0	445.2
127.5°	596.5	617.4	629.3	632.0	629.3	617.4	596.5	567.3	528.5	481.7	426.9
130°	577.2	596.2	607.7	611.2	607.7	596.2	577.2	548.4	511.0	466.1	415.4
132.5°	556.9	575.9	586.5	590.5	586.5	575.9	556.9	528.2	492.1	451.3	403.8
135°	523.6	542.6	553.0	556.4	553.0	542.6	523.6	498.3	465.4	428.6	388.8
137.5°	489.5	506.9	516.3	520.2	516.3	506.9	489.5	466.9	439.0	408.3	376.2
140°	468.4	483.3	491.9	494.8	491.9	483.3	468.4	447.1	422.8	396.4	369.2
142.5°	448.1	460.7	468.9	471.3	468.9	460.7	448.1	430.0	409.0	386.2	363.2
145°	420.5	430.3	436.7	439.0	436.7	430.3	420.5	406.7	391.1	373.2	355.5
147.5°	399.0	406.8	410.5	411.5	410.5	406.8	399.0	388.0	376.3	362.5	348.1
150°	386.6	393.4	395.8	396.4	395.8	393.4	386.6	377.9	367.5	356.6	343.9
152.5°	376.0	381.4	383.7	384.4	383.7	381.4	376.0	368.7	360.6	350.6	339.3
155°	361.7	365.8	367.5	368.1	367.5	365.8	361.7	356.0	349.6	341.6	332.3
157.5°	348.7	352.0	353.7	353.6	353.7	352.0	348.7	344.3	339.3	333.1	325.5
160°	340.4	343.4	344.5	343.9	344.5	343.4	340.4	336.4	332.3	326.6	320.8
162.5°	332.6	335.1	335.3	335.2	335.3	335.1	332.6	329.5	325.9	321.1	315.8
165°	321.4	322.6	322.6	322.6	322.6	322.6	321.4	319.1	316.3	312.8	308.7
167.5°	310.6	311.6	311.1	311.0	311.1	311.6	310.6	309.4	307.4	304.8	302.1
170°	304.2	304.8	304.8	304.2	304.8	304.8	304.2	303.0	301.8	300.1	298.4
172.5°	298.2	299.2	298.3	297.7	298.3	299.2	298.2	297.9	297.2	296.0	294.3
175°	290.9	291.4	290.3	289.7	290.3	291.4	290.9	290.9	290.9	289.7	289.7
177.5°	286.6	287.1	285.7	285.7	285.7	287.1	286.6	287.1	287.1	287.1	286.6
180°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7



TEST NUMBER: P333588-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1591.6	1597.7	1600.9	1608.6	1619.5	1625.0	1632.5	1638.0	1645.7	1655.0	1662.5
5°	1488.6	1505.0	1515.9	1532.9	1548.6	1564.3	1584.1	1598.3	1617.4	1639.2	1656.3
7.5°	1392.9	1413.4	1431.5	1454.0	1479.9	1500.1	1525.8	1552.2	1582.0	1613.0	1642.1
10°	1331.8	1352.3	1374.8	1402.7	1428.7	1455.9	1486.5	1517.2	1554.7	1589.5	1629.0
12.5°	1271.3	1293.9	1319.2	1350.4	1381.7	1416.6	1447.8	1482.4	1522.6	1567.7	1609.9
15°	1196.2	1218.0	1245.3	1271.8	1308.0	1346.2	1387.8	1433.4	1478.3	1528.8	1581.3
17.5°	1115.6	1139.6	1169.6	1200.4	1238.5	1283.1	1323.9	1373.9	1424.5	1483.3	1545.1
20°	1063.3	1087.8	1123.3	1157.4	1192.1	1235.8	1284.1	1335.2	1389.1	1451.2	1519.9
22.5°	1021.9	1039.4	1074.2	1108.8	1149.6	1194.3	1241.6	1294.9	1353.6	1417.9	1490.0
25°	960.4	980.8	1006.0	1042.2	1084.4	1131.5	1179.1	1235.8	1299.8	1365.2	1442.3
27.5°	905.7	922.5	947.5	975.7	1017.9	1066.7	1117.4	1176.4	1242.1	1308.8	1389.8
30°	867.0	885.3	909.3	939.3	972.6	1025.8	1077.6	1135.6	1202.3	1271.2	1354.3
32.5°	833.1	852.1	872.7	901.1	937.2	984.4	1037.8	1094.7	1162.6	1233.6	1314.5
35°	785.9	798.8	817.9	845.9	881.3	919.5	974.0	1034.0	1100.1	1173.8	1254.9
37.5°	731.6	748.4	767.3	791.6	822.7	864.0	914.7	975.3	1036.7	1107.2	1181.2
40°	700.0	715.7	736.8	754.6	787.3	824.8	871.1	934.4	995.8	1062.0	1129.4
42.5°	667.8	683.0	700.8	722.9	752.3	788.7	831.8	890.8	956.5	1018.9	1075.4
45°	617.5	633.2	650.3	670.7	697.9	733.4	776.4	830.2	887.5	944.7	987.6
47.5°	569.4	584.1	600.3	621.2	646.3	680.5	718.9	766.5	822.1	870.8	901.5
50°	535.0	548.7	566.4	586.8	611.4	643.4	680.2	727.3	773.7	817.9	845.9
52.5°	501.3	516.5	534.2	552.0	575.4	607.4	641.6	682.0	726.2	762.3	785.4
55°	450.5	464.8	481.2	499.6	522.8	550.1	586.2	618.2	653.0	683.7	697.3
57.5°	401.6	414.1	429.5	448.6	469.5	494.8	523.5	554.3	578.9	600.5	615.9
60°	369.4	380.3	394.7	411.0	433.5	456.7	482.6	511.2	530.3	548.7	563.0
62.5°	336.7	347.1	360.8	375.6	395.4	416.9	441.7	464.8	483.4	495.8	512.3
65°	287.6	297.8	309.4	325.1	340.8	358.5	381.0	398.1	411.0	424.6	434.8
67.5°	242.0	250.4	261.5	273.8	287.0	304.0	321.4	335.6	344.5	352.6	365.0
70°	212.0	218.8	227.6	237.2	251.6	268.5	282.2	293.1	299.2	307.4	322.3
72.5°	181.5	189.3	197.6	207.2	218.8	233.1	245.1	256.0	259.9	266.5	276.1
75°	143.1	147.2	154.0	160.9	169.1	181.3	192.9	195.6	199.0	204.5	211.3
77.5°	108.3	111.9	114.6	119.2	125.7	135.5	141.7	145.7	146.5	148.6	155.3
80°	85.8	88.0	90.7	94.0	96.7	104.9	108.4	112.5	113.8	115.8	119.3
82.5°	63.0	65.0	66.7	69.5	73.9	77.2	80.6	84.6	84.9	86.4	87.2
85°	36.8	37.5	36.2	37.5	38.2	39.5	42.9	46.4	45.6	44.9	47.1
87.5°	15.0	14.9	14.1	15.7	14.3	14.7	14.5	14.8	15.8	16.6	17.6
90°	9.8	9.2	8.1	7.5	6.4	5.8	4.6	3.4	2.3	1.1	0.6
92.5°	150.4	185.7	188.7	131.5	78.7	47.3	30.4	20.5	13.3	8.5	7.1
95°	499.5	510.4	416.5	257.5	130.8	69.2	43.2	30.5	24.2	19.6	19.0
97.5°	632.0	545.0	371.9	205.5	112.7	71.9	53.2	41.8	35.4	32.2	31.6
100°	664.2	520.2	331.8	186.6	111.8	78.4	61.1	50.1	43.8	41.5	40.3
102.5°	644.8	476.4	301.3	178.8	115.9	86.1	69.4	59.4	52.5	50.7	50.0
105°	583.0	417.7	271.9	175.7	124.4	99.1	82.9	73.7	68.0	65.1	65.1
107.5°	519.9	377.2	259.4	181.0	137.1	112.6	98.1	88.5	83.7	81.0	79.9
110°	483.9	358.3	255.8	186.0	146.3	122.7	107.8	99.1	93.9	91.6	90.5



TEST NUMBER: P333588-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	457.2	347.3	255.8	192.5	155.1	132.4	117.9	109.3	104.0	102.2	101.1
115°	428.0	335.3	257.5	202.2	168.7	147.4	133.1	124.4	119.3	117.5	116.3
117.5°	410.6	329.4	261.3	213.3	182.9	162.7	148.8	139.0	133.8	131.9	130.2
120°	400.9	326.6	265.0	220.7	193.0	172.8	158.4	148.7	143.4	141.2	139.4
122.5°	392.6	324.4	268.2	228.9	202.7	182.5	168.1	157.3	152.2	150.4	149.1
125°	381.3	321.4	273.7	240.2	215.4	196.4	181.5	170.5	165.3	162.5	161.3
127.5°	371.0	320.0	279.7	250.5	227.7	209.4	194.5	182.9	176.3	172.6	170.9
130°	364.1	319.1	283.5	257.5	235.6	217.7	202.8	190.7	183.2	178.5	176.8
132.5°	358.5	319.1	287.6	263.5	243.0	225.1	210.2	197.6	189.1	183.7	181.5
135°	351.9	319.1	293.2	271.9	252.9	235.0	219.4	207.4	198.1	191.3	188.9
137.5°	346.1	319.8	298.4	278.1	259.9	243.7	227.6	215.8	206.6	200.2	198.4
140°	343.4	320.3	300.7	282.3	265.0	248.3	232.8	221.8	212.6	205.6	203.9
142.5°	341.0	320.7	302.1	284.6	268.2	252.5	237.8	227.3	218.1	211.7	210.4
145°	337.6	320.3	303.6	288.0	273.7	258.6	245.4	235.0	226.9	221.2	220.0
147.5°	334.0	318.8	304.2	290.1	277.1	264.0	252.3	243.3	235.8	230.9	230.1
150°	331.2	317.4	304.2	291.4	279.4	266.7	256.9	248.8	241.4	237.3	236.2
152.5°	328.0	315.6	303.7	292.4	281.7	269.9	261.1	253.5	246.9	243.3	242.7
155°	322.6	312.3	302.5	293.2	284.0	274.2	266.1	260.3	254.6	251.2	251.2
157.5°	317.5	308.7	300.9	293.8	286.0	277.5	271.5	266.4	261.5	258.6	258.7
160°	313.4	306.5	299.5	293.8	286.9	279.4	274.2	269.6	265.6	263.3	263.9
162.5°	309.7	303.7	298.2	293.4	287.8	281.2	277.0	273.3	269.7	267.4	268.0
165°	304.2	299.5	296.1	292.7	288.0	283.5	279.9	277.6	274.8	273.1	274.2
167.5°	298.7	295.5	292.9	291.2	288.0	284.2	282.1	280.4	278.8	277.8	278.3
170°	295.5	293.2	291.4	290.3	288.0	285.2	283.5	282.3	281.1	280.5	281.1
172.5°	292.3	290.4	289.6	289.4	287.6	285.2	284.4	283.7	282.5	282.0	283.0
175°	288.0	287.4	287.4	288.0	286.9	285.2	285.2	285.2	284.6	284.0	285.2
177.5°	286.2	285.7	285.7	286.6	286.2	285.3	285.3	285.7	285.3	285.3	286.2
180°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7



TEST NUMBER: P333588-840

CATALOG NUMBER: S125RDIP-S1090D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1668.6	1673.4	1680.5	1688.7	1695.3	1702.3	1706.2	1706.2	1709.5	1716.6	1725.9
5°	1673.3	1691.0	1708.1	1729.9	1747.0	1766.7	1781.7	1796.0	1809.0	1825.3	1842.4
7.5°	1671.9	1701.4	1732.1	1766.5	1804.3	1834.4	1865.4	1889.7	1913.7	1945.0	1969.6
10°	1666.5	1704.7	1746.3	1789.9	1837.6	1879.2	1916.6	1950.8	1983.5	2017.5	2048.2
12.5°	1656.7	1705.3	1756.1	1808.5	1868.7	1916.2	1964.7	2000.9	2039.1	2076.4	2114.2
15°	1641.9	1699.2	1760.6	1833.5	1907.1	1960.2	2008.0	2055.1	2090.4	2132.7	2168.9
17.5°	1611.5	1685.4	1762.5	1842.2	1913.0	1974.7	2024.8	2069.5	2107.3	2153.7	2202.8
20°	1593.6	1673.3	1753.7	1839.0	1906.4	1969.8	2018.2	2064.6	2111.6	2172.2	2232.2
22.5°	1568.5	1653.7	1739.0	1819.9	1891.2	1952.4	2002.4	2059.1	2120.8	2189.7	2262.2
25°	1528.8	1616.8	1701.3	1778.3	1847.9	1910.6	1978.7	2055.1	2130.0	2220.7	2324.9
27.5°	1478.5	1563.3	1638.7	1720.1	1789.2	1869.0	1954.0	2036.8	2144.9	2269.6	2399.7
30°	1440.9	1521.4	1592.9	1669.9	1748.3	1836.2	1931.7	2029.1	2158.0	2304.5	2459.2
32.5°	1397.2	1470.1	1541.1	1615.4	1705.8	1802.4	1903.8	2023.2	2177.1	2343.8	2504.0
35°	1321.6	1387.0	1455.9	1538.3	1634.5	1739.5	1869.0	2014.2	2200.2	2379.4	2523.2
37.5°	1242.2	1293.9	1363.0	1450.1	1554.7	1676.2	1823.1	1999.5	2190.7	2351.5	2412.8
40°	1181.2	1229.6	1302.5	1393.9	1497.4	1630.4	1795.3	1976.6	2168.9	2280.7	2275.8
42.5°	1120.6	1169.6	1239.8	1331.7	1439.7	1588.4	1758.3	1946.6	2108.9	2151.4	2062.6
45°	1027.8	1073.5	1142.4	1235.1	1350.9	1507.0	1685.6	1866.2	1969.8	1901.0	1725.2
47.5°	933.2	977.5	1041.5	1132.3	1258.8	1422.1	1590.9	1739.2	1753.7	1605.9	1394.9
50°	871.1	912.6	973.3	1070.2	1192.8	1352.3	1515.2	1631.7	1595.6	1415.0	1197.6
52.5°	810.5	850.5	907.4	998.7	1124.1	1280.3	1425.7	1517.2	1433.7	1241.6	1046.0
55°	721.1	759.3	816.6	900.4	1014.2	1157.4	1284.9	1318.2	1195.5	1002.0	843.8
57.5°	636.2	664.2	720.7	794.9	904.6	1030.9	1122.2	1116.2	980.8	806.5	693.1
60°	580.1	605.2	659.1	727.3	831.5	944.7	1008.8	981.5	844.6	700.6	591.6
62.5°	527.7	551.3	596.4	659.1	748.7	847.1	893.7	856.1	726.7	600.4	513.6
65°	448.5	465.5	501.7	559.6	629.8	697.9	739.5	684.3	569.9	474.4	409.0
67.5°	374.5	389.2	421.3	462.9	511.3	558.4	575.3	523.5	434.4	370.1	324.1
70°	326.5	340.1	361.9	400.8	432.8	466.3	474.4	428.1	353.8	304.7	276.1
72.5°	280.6	293.3	312.4	339.7	361.9	381.1	385.0	341.9	285.1	251.3	229.1
75°	214.0	224.9	237.2	247.4	261.8	265.2	263.8	230.4	199.8	177.2	164.9
77.5°	157.3	161.8	169.4	173.4	174.1	173.8	166.8	145.7	129.9	120.7	115.6
80°	121.3	124.7	126.7	128.2	128.9	122.0	114.5	101.6	96.1	90.7	84.5
82.5°	88.1	90.4	92.4	92.7	89.0	83.3	76.3	69.9	66.1	63.4	61.1
85°	47.7	48.4	47.7	44.3	39.5	37.5	36.2	34.7	34.0	33.4	33.4
87.5°	17.2	15.8	13.2	14.0	14.2	13.8	14.0	13.6	13.3	13.4	13.5
90°	1.1	2.3	3.4	4.6	5.8	6.4	7.5	8.1	9.2	9.8	10.4
92.5°	8.5	13.3	20.5	30.4	47.3	78.7	131.5	188.7	185.7	150.4	102.1
95°	19.6	24.2	30.5	43.2	69.2	130.8	257.5	416.5	510.4	499.5	414.1
97.5°	32.2	35.4	41.8	53.2	71.9	112.7	205.5	371.9	545.0	632.0	616.8
100°	41.5	43.8	50.1	61.1	78.4	111.8	186.6	331.8	520.2	664.2	708.5
102.5°	50.7	52.5	59.4	69.4	86.1	115.9	178.8	301.3	476.4	644.8	739.4
105°	65.1	68.0	73.7	82.9	99.1	124.4	175.7	271.9	417.7	583.0	721.2
107.5°	81.0	83.7	88.5	98.1	112.6	137.1	181.0	259.4	377.2	519.9	656.2
110°	91.6	93.9	99.1	107.8	122.7	146.3	186.0	255.8	358.3	483.9	608.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	102.2	104.0	109.3	117.9	132.4	155.1	192.5	255.8	347.3	457.2	570.6
115°	117.5	119.3	124.4	133.1	147.4	168.7	202.2	257.5	335.3	428.0	523.0
117.5°	131.9	133.8	139.0	148.8	162.7	182.9	213.3	261.3	329.4	410.6	492.4
120°	141.2	143.4	148.7	158.4	172.8	193.0	220.7	265.0	326.6	400.9	475.8
122.5°	150.4	152.2	157.3	168.1	182.5	202.7	228.9	268.2	324.4	392.6	463.4
125°	162.5	165.3	170.5	181.5	196.4	215.4	240.2	273.7	321.4	381.3	445.2
127.5°	172.6	176.3	182.9	194.5	209.4	227.7	250.5	279.7	320.0	371.0	426.9
130°	178.5	183.2	190.7	202.8	217.7	235.6	257.5	283.5	319.1	364.1	415.4
132.5°	183.7	189.1	197.6	210.2	225.1	243.0	263.5	287.6	319.1	358.5	403.8
135°	191.3	198.1	207.4	219.4	235.0	252.9	271.9	293.2	319.1	351.9	388.8
137.5°	200.2	206.6	215.8	227.6	243.7	259.9	278.1	298.4	319.8	346.1	376.2
140°	205.6	212.6	221.8	232.8	248.3	265.0	282.3	300.7	320.3	343.4	369.2
142.5°	211.7	218.1	227.3	237.8	252.5	268.2	284.6	302.1	320.7	341.0	363.2
145°	221.2	226.9	235.0	245.4	258.6	273.7	288.0	303.6	320.3	337.6	355.5
147.5°	230.9	235.8	243.3	252.3	264.0	277.1	290.1	304.2	318.8	334.0	348.1
150°	237.3	241.4	248.8	256.9	266.7	279.4	291.4	304.2	317.4	331.2	343.9
152.5°	243.3	246.9	253.5	261.1	269.9	281.7	292.4	303.7	315.6	328.0	339.3
155°	251.2	254.6	260.3	266.1	274.2	284.0	293.2	302.5	312.3	322.6	332.3
157.5°	258.6	261.5	266.4	271.5	277.5	286.0	293.8	300.9	308.7	317.5	325.5
160°	263.3	265.6	269.6	274.2	279.4	286.9	293.8	299.5	306.5	313.4	320.8
162.5°	267.4	269.7	273.3	277.0	281.2	287.8	293.4	298.2	303.7	309.7	315.8
165°	273.1	274.8	277.6	279.9	283.5	288.0	292.7	296.1	299.5	304.2	308.7
167.5°	277.8	278.8	280.4	282.1	284.2	288.0	291.2	292.9	295.5	298.7	302.1
170°	280.5	281.1	282.3	283.5	285.2	288.0	290.3	291.4	293.2	295.5	298.4
172.5°	282.0	282.5	283.7	284.4	285.2	287.6	289.4	289.6	290.4	292.3	294.3
175°	284.0	284.6	285.2	285.2	285.2	286.9	288.0	287.4	287.4	288.0	289.7
177.5°	285.3	285.3	285.7	285.3	285.3	286.2	286.6	285.7	285.7	286.2	286.6
180°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1732.9	1732.9	1742.2	1741.6	1747.7	1745.5	1746.6
5°	1862.8	1874.4	1884.6	1891.5	1901.7	1904.4	1903.0
7.5°	1997.5	2023.3	2035.8	2053.0	2056.1	2065.1	2064.2
10°	2080.9	2106.2	2125.3	2140.2	2147.7	2157.3	2158.0
12.5°	2146.4	2167.8	2184.6	2198.6	2207.7	2210.7	2212.5
15°	2197.5	2221.3	2241.1	2260.9	2272.5	2281.3	2286.1
17.5°	2249.0	2285.8	2320.7	2347.5	2363.7	2377.3	2377.1
20°	2288.9	2331.1	2374.7	2405.4	2436.7	2450.3	2452.4
22.5°	2331.4	2396.0	2452.2	2499.7	2540.8	2555.1	2560.4
25°	2419.6	2504.2	2590.8	2657.6	2705.2	2733.2	2737.3
27.5°	2526.4	2640.8	2731.9	2793.5	2833.2	2853.9	2858.3
30°	2601.7	2707.3	2789.1	2835.5	2853.9	2856.6	2846.4
32.5°	2635.4	2714.4	2747.1	2744.4	2708.3	2684.3	2675.1
35°	2594.1	2577.8	2498.1	2402.7	2329.8	2283.4	2271.1
37.5°	2360.8	2219.7	2073.1	1928.8	1852.1	1813.0	1746.0
40°	2130.7	1929.7	1777.0	1655.6	1569.0	1499.5	1483.2
42.5°	1871.2	1663.6	1510.9	1406.9	1337.9	1290.1	1269.4
45°	1503.6	1325.0	1198.9	1119.2	1066.0	1031.3	1015.6
47.5°	1202.6	1064.4	972.5	913.5	873.0	842.7	834.2
50°	1037.4	927.0	849.3	799.5	768.8	745.7	736.1
52.5°	901.1	811.9	752.2	711.1	682.2	667.7	659.7
55°	743.7	666.6	623.7	591.0	574.6	563.0	557.5
57.5°	608.1	552.5	521.2	498.6	483.4	476.1	473.3
60°	532.3	488.7	460.1	442.3	432.1	422.6	419.9
62.5°	465.2	430.9	408.8	393.2	383.0	379.0	377.3
65°	374.9	352.3	336.0	326.5	318.3	316.9	316.3
67.5°	298.0	284.8	276.2	266.2	263.4	258.6	257.6
70°	254.9	246.1	235.8	232.5	229.0	224.3	224.9
72.5°	216.2	207.3	200.4	195.9	194.7	192.6	194.4
75°	158.1	155.4	152.7	149.3	147.9	147.9	147.2
77.5°	112.9	110.6	107.6	105.5	105.1	102.2	103.3
80°	81.8	78.4	77.1	77.7	75.6	74.9	74.9
82.5°	60.5	59.3	58.0	58.1	57.7	57.0	57.6
85°	33.4	32.7	32.7	32.0	32.0	31.3	31.3
87.5°	14.1	14.8	13.9	13.4	13.4	14.1	14.6
90°	10.9	11.5	12.6	12.6	12.6	13.2	13.2
92.5°	74.1	55.7	47.3	39.9	38.5	37.7	36.8
95°	326.6	255.8	207.4	166.5	149.2	144.6	135.4
97.5°	555.4	486.5	419.1	383.5	351.2	334.6	327.2
100°	680.3	621.0	561.1	521.3	479.9	458.6	449.3
102.5°	756.8	728.3	687.8	645.3	615.8	592.7	585.7
105°	800.1	825.5	819.1	800.7	781.7	770.2	763.3
107.5°	761.5	826.7	856.7	866.1	866.0	862.1	857.5
110°	717.8	799.0	848.0	873.8	884.8	888.9	888.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	674.5	756.6	814.4	852.2	871.0	881.0	885.1
115°	612.4	691.3	754.1	799.0	826.7	842.7	850.3
117.5°	569.4	637.3	695.0	739.9	768.5	784.5	789.1
120°	544.9	608.3	659.0	701.7	729.3	744.9	749.4
122.5°	527.5	583.9	631.4	669.3	694.7	710.2	714.4
125°	504.0	554.2	595.6	627.9	651.6	664.2	669.9
127.5°	481.7	528.5	567.3	596.5	617.4	629.3	632.0
130°	466.1	511.0	548.4	577.2	596.2	607.7	611.2
132.5°	451.3	492.1	528.2	556.9	575.9	586.5	590.5
135°	428.6	465.4	498.3	523.6	542.6	553.0	556.4
137.5°	408.3	439.0	466.9	489.5	506.9	516.3	520.2
140°	396.4	422.8	447.1	468.4	483.3	491.9	494.8
142.5°	386.2	409.0	430.0	448.1	460.7	468.9	471.3
145°	373.2	391.1	406.7	420.5	430.3	436.7	439.0
147.5°	362.5	376.3	388.0	399.0	406.8	410.5	411.5
150°	356.6	367.5	377.9	386.6	393.4	395.8	396.4
152.5°	350.6	360.6	368.7	376.0	381.4	383.7	384.4
155°	341.6	349.6	356.0	361.7	365.8	367.5	368.1
157.5°	333.1	339.3	344.3	348.7	352.0	353.7	353.6
160°	326.6	332.3	336.4	340.4	343.4	344.5	343.9
162.5°	321.1	325.9	329.5	332.6	335.1	335.3	335.2
165°	312.8	316.3	319.1	321.4	322.6	322.6	322.6
167.5°	304.8	307.4	309.4	310.6	311.6	311.1	311.0
170°	300.1	301.8	303.0	304.2	304.8	304.8	304.2
172.5°	296.0	297.2	297.9	298.2	299.2	298.3	297.7
175°	289.7	290.9	290.9	290.9	291.4	290.3	289.7
177.5°	287.1	287.1	287.1	286.6	287.1	285.7	285.7
180°	285.7	285.7	285.7	285.7	285.7	285.7	285.7

(END OF REPORT)