

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: P332065-940

Luminaire Tested: **S123DIP-S1165D805U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332065-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1165D805U940-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

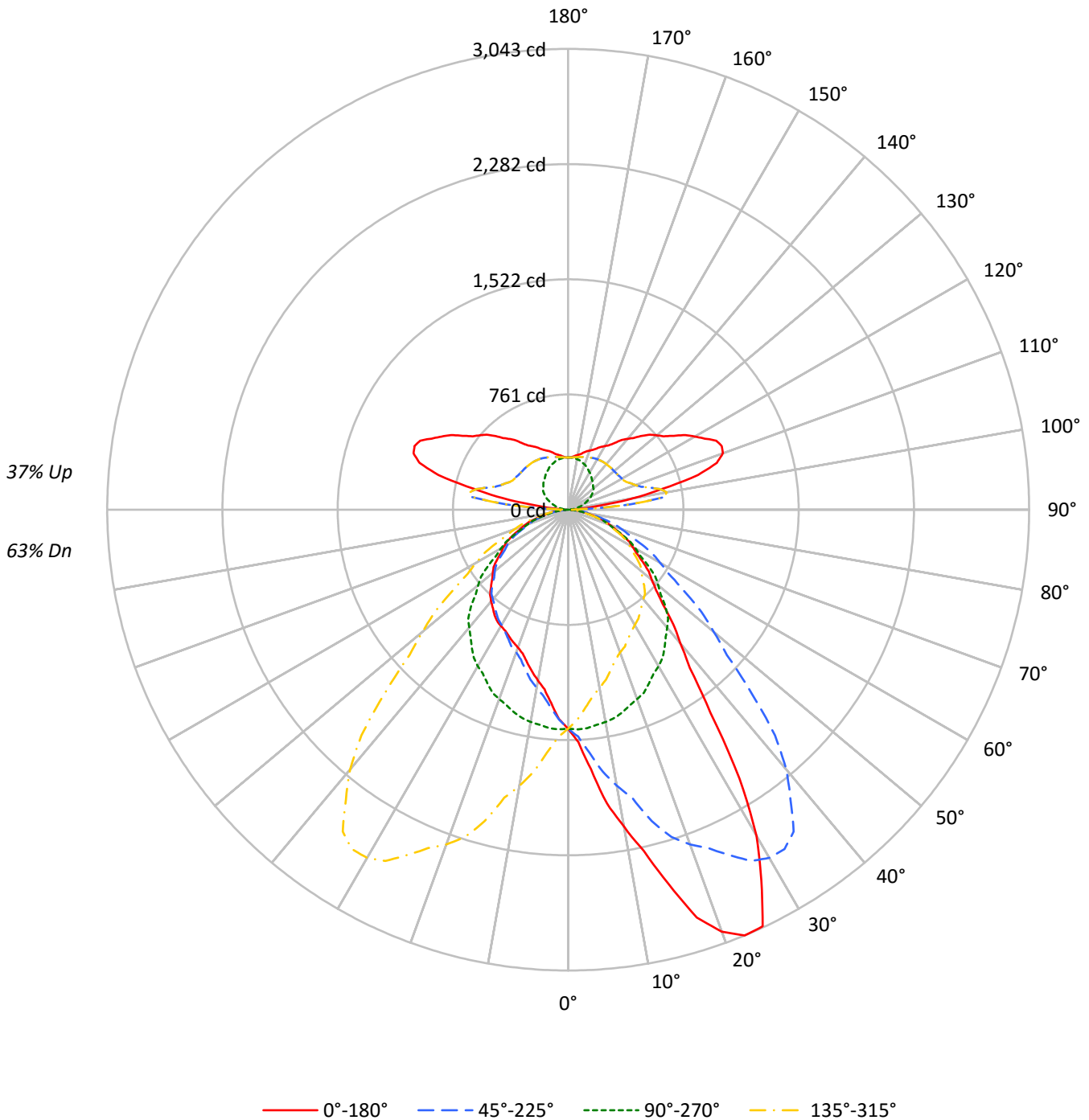
Lumens per Lamp: N/A  
Luminaire Lumens: 6959.5 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	89	95	91	88	84	80	77	75	70	68	66	61	59	58	54
2	92	85	79	74	86	80	74	70	70	66	63	62	59	56	54	51	49	45
3	84	75	68	62	79	71	64	59	62	57	53	55	51	48	48	45	42	39
4	77	66	59	52	72	63	56	50	56	50	46	49	45	41	43	40	37	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	39	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	39	33	41	35	31	36	32	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	32	27	33	29	25	30	26	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	21	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

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

	0°	90°	180°	270°
0°	15569	15569	15569	15569
5°	18567	15637	13857	15637
10°	23240	15557	12516	15557
15°	28505	15432	11652	15432
20°	33956	15237	11094	15237
25°	36056	14998	10969	14998
30°	30904	14825	11028	14825
35°	21494	14578	11143	14578
40°	16190	14289	11108	14289
45°	13443	13857	10966	13857
50°	12042	12980	10868	12980
55°	11258	12033	10732	12033
60°	10559	11044	10622	11044
65°	9926	10068	10282	10068
70°	9309	8954	9791	8954
75°	8339	7839	8979	7839
80°	7296	6428	7736	6428
85°	5718	4668	5199	4668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	2.0
10°-20°	456.9	6.6
20°-30°	766.8	11.0
30°-40°	868.3	12.5
40°-50°	778.6	11.2
50°-60°	628.3	9.0
60°-70°	437.9	6.3
70°-80°	230.1	3.3
80°-90°	59.0	0.8
90°-100°	191.7	2.8
100°-110°	542.7	7.8
110°-120°	533.9	7.7
120°-130°	425.8	6.1
130°-140°	335.7	4.8
140°-150°	250.6	3.6
150°-160°	174.7	2.5
160°-170°	102.6	1.5
170°-180°	33.4	0.5
0°-30°	1366.2	19.6
0°-40°	2234.5	32.1
0°-60°	3641.5	52.3
0°-90°	4368.4	62.8
90°-120°	1268.2	18.2
90°-150°	2280.4	32.8
90°-180°	2591.0	37.2
0°-180°	6959.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1446	1446	1446	1446	1446	
5°	1718	1447	1282	1447	1718	178
15°	2558	1385	1046	1385	2558	739
25°	3036	1263	924	1263	3036	1331
35°	1636	1109	848	1109	1636	1063
45°	883	910	720	910	883	699
55°	600	641	572	641	600	538
65°	390	395	404	395	390	388
75°	200	188	216	188	200	215
85°	46	38	42	38	46	55
90°	20	1	20	1	20	13
95°	81	24	81	24	81	146
105°	887	81	887	81	887	875
115°	1078	143	1078	143	1078	1048
125°	850	199	850	199	850	771
135°	690	233	690	233	690	535
145°	539	266	539	266	539	343
155°	447	302	447	302	447	208
165°	390	330	390	330	390	111
175°	351	344	351	344	351	34
180°	344	344	344	344	344	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1535.1	1533.9	1531.2	1533.4	1528.9	1522.7	1522.2	1516.5	1500.3	1499.1	1494.7
5°	1718.4	1712.8	1712.1	1711.4	1701.6	1688.3	1663.0	1660.9	1627.3	1610.4	1590.2
7.5°	1955.8	1958.7	1948.6	1939.6	1909.6	1889.8	1862.8	1828.2	1786.8	1744.9	1717.0
10°	2126.3	2149.4	2120.7	2101.0	2082.9	2048.4	2008.6	1958.7	1909.0	1850.8	1806.7
12.5°	2309.1	2320.4	2314.6	2296.2	2267.8	2215.5	2144.7	2090.0	2044.2	1947.3	1908.2
15°	2558.0	2600.8	2573.4	2510.3	2511.7	2461.9	2369.5	2267.8	2213.9	2129.0	2013.5
17.5°	2823.2	2828.5	2816.8	2764.3	2729.3	2660.9	2575.5	2478.1	2368.7	2266.2	2143.5
20°	2964.4	2960.2	2935.7	2908.4	2848.1	2794.9	2701.6	2593.0	2452.8	2352.0	2218.0
22.5°	3043.0	3035.9	3024.3	3001.4	2951.3	2894.0	2810.4	2691.7	2558.2	2419.2	2264.6
25°	3035.9	3045.0	3046.4	3040.1	3022.6	2988.3	2922.4	2827.8	2694.7	2516.0	2354.7
27.5°	2761.2	2774.1	2811.6	2844.7	2881.9	2919.7	2914.6	2867.7	2769.2	2614.9	2417.8
30°	2486.4	2458.4	2527.8	2615.5	2675.0	2780.1	2839.0	2842.5	2787.1	2654.7	2462.6
32.5°	2105.2	2136.1	2166.8	2274.6	2404.8	2522.8	2640.0	2734.3	2745.1	2656.9	2489.0
35°	1635.7	1674.3	1730.3	1786.4	1926.5	2047.1	2253.1	2432.5	2575.5	2594.4	2491.4
37.5°	1318.1	1337.1	1372.6	1428.8	1520.5	1663.5	1822.8	2049.6	2256.7	2410.8	2417.5
40°	1152.2	1157.7	1197.7	1240.5	1314.7	1432.4	1576.1	1776.6	2024.6	2239.8	2329.5
42.5°	1027.7	1040.0	1056.9	1098.1	1157.2	1245.8	1379.4	1545.0	1772.4	2020.0	2195.5
45°	883.1	897.1	907.6	934.9	977.0	1036.5	1129.7	1281.1	1454.2	1709.9	1946.2
47.5°	787.5	788.5	796.4	817.0	845.6	890.3	956.2	1053.5	1212.4	1419.9	1662.3
50°	719.1	730.2	733.1	749.1	771.6	804.5	859.2	941.9	1072.3	1254.5	1477.3
52.5°	670.8	674.2	682.1	693.7	713.3	739.0	786.3	851.0	953.4	1108.7	1313.6
55°	599.9	599.9	607.6	616.7	627.9	651.0	682.6	730.2	808.1	928.5	1098.1
57.5°	534.3	537.8	543.2	546.1	555.6	570.9	597.3	633.4	691.4	784.2	919.1
60°	490.5	496.9	496.1	501.8	510.2	522.1	544.6	574.0	625.8	700.1	813.7
62.5°	452.5	452.0	451.9	458.6	467.0	478.4	492.9	518.4	562.5	628.4	725.1
65°	389.7	388.3	393.2	397.3	400.2	408.6	419.8	442.2	471.6	520.7	595.7
67.5°	333.9	329.8	332.4	333.9	338.7	345.2	355.7	369.6	393.0	432.4	488.9
70°	295.8	292.2	291.5	292.9	297.1	302.0	309.8	323.1	344.8	376.3	417.7
72.5°	256.5	254.1	254.0	257.1	259.0	262.3	267.7	279.9	297.1	320.8	359.4
75°	200.5	200.5	200.5	201.2	203.2	206.1	210.3	216.5	229.9	246.6	272.6
77.5°	150.3	150.1	149.3	149.1	152.2	153.5	154.4	160.3	167.7	179.1	198.0
80°	117.7	114.2	115.7	117.7	119.1	119.8	122.0	123.3	129.7	136.0	149.3
82.5°	87.5	84.5	84.8	88.0	88.3	89.0	91.1	93.1	95.4	101.2	108.3
85°	46.3	46.3	47.0	47.0	47.6	47.0	49.0	49.8	49.8	53.2	57.4
87.5°	20.9	19.9	20.3	20.7	20.3	20.6	21.0	21.4	21.8	22.6	22.6
90°	20.2	21.0	20.2	19.5	20.2	18.8	18.1	17.4	16.8	17.4	15.3
92.5°	33.6	34.9	34.2	36.3	37.5	41.1	46.5	58.7	80.9	107.2	118.0
95°	80.9	83.6	88.5	94.8	108.1	133.1	170.1	251.0	335.4	413.4	368.1
97.5°	220.2	226.1	245.0	276.3	327.8	411.2	501.1	625.6	685.5	640.7	469.0
100°	437.1	436.4	463.6	514.5	584.9	683.9	765.4	822.0	797.5	660.2	446.2
102.5°	641.2	657.3	680.0	720.3	775.1	837.9	885.4	887.2	803.2	623.9	412.7
105°	886.8	890.3	912.6	939.1	971.2	989.3	976.0	906.3	760.6	560.5	371.6
107.5°	1028.1	1034.6	1042.1	1051.1	1050.4	1025.6	964.6	851.4	686.2	504.4	345.4
110°	1086.2	1087.5	1089.0	1083.3	1063.9	1015.0	927.2	799.0	639.3	472.7	335.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1097.9	1097.6	1092.3	1075.0	1039.3	976.6	878.2	747.1	598.6	451.5	329.8
115°	1078.5	1075.0	1061.0	1030.4	978.1	902.1	799.6	678.3	549.4	428.7	327.7
117.5°	1016.9	1012.1	992.0	956.9	902.4	825.3	733.3	628.6	519.7	415.4	329.0
120°	965.5	961.4	944.7	905.6	850.5	780.2	696.4	602.4	504.1	409.2	331.2
122.5°	917.6	912.3	893.9	858.7	809.9	744.4	666.9	581.8	491.2	405.4	335.0
125°	850.5	845.6	828.2	797.5	753.0	697.1	630.3	554.2	474.7	400.2	340.9
127.5°	795.3	790.9	775.1	748.9	709.2	658.4	598.0	530.3	460.3	397.7	347.6
130°	764.1	758.5	743.9	718.8	681.8	634.5	577.9	515.2	452.5	396.0	352.0
132.5°	733.4	729.5	716.6	691.4	656.7	611.5	559.0	501.2	445.2	395.4	355.4
135°	689.5	684.6	672.1	651.1	617.0	577.2	531.9	482.4	435.7	394.6	360.4
137.5°	643.1	639.9	629.3	608.1	579.3	544.9	505.9	465.3	427.5	393.1	363.8
140°	610.7	611.4	600.2	580.8	554.2	524.2	490.8	455.2	422.5	392.5	366.0
142.5°	580.6	581.3	571.2	553.9	531.4	505.3	476.3	445.8	418.0	391.4	367.7
145°	538.9	537.5	531.9	517.3	499.9	479.7	457.4	434.4	412.1	389.7	368.8
147.5°	504.6	504.1	498.7	488.8	475.6	461.3	443.3	425.0	406.2	387.1	368.8
150°	484.6	484.6	480.4	472.7	462.2	449.0	434.4	418.3	402.3	384.9	368.8
152.5°	467.8	467.8	465.3	458.2	450.0	438.9	426.0	412.1	397.8	382.0	367.1
155°	446.8	446.2	444.8	439.2	432.9	424.5	414.1	403.0	391.1	377.2	365.3
157.5°	427.8	427.9	426.8	422.6	417.1	410.6	402.5	393.2	383.6	372.8	362.9
160°	415.5	416.2	416.2	412.1	407.2	402.3	395.3	387.6	378.5	369.5	361.9
162.5°	404.4	405.0	405.0	401.4	398.2	393.9	387.4	380.9	373.5	366.1	359.6
165°	389.7	389.7	390.4	387.6	384.9	381.4	376.5	372.3	366.7	361.1	356.2
167.5°	375.8	375.8	376.5	374.5	373.3	370.8	367.9	364.7	360.2	356.1	352.9
170°	367.4	367.4	368.1	366.7	366.0	364.6	361.9	359.7	356.2	352.8	350.7
172.5°	359.6	360.2	361.4	360.0	359.9	359.0	356.8	355.3	352.3	350.0	349.0
175°	350.7	351.3	352.0	351.3	351.3	351.3	350.0	349.3	347.9	346.5	346.5
177.5°	345.5	345.5	346.6	346.1	346.6	346.6	346.1	345.5	344.9	344.4	344.9
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1491.3	1486.8	1482.4	1474.5	1467.8	1458.2	1455.5	1452.1	1442.0	1433.1	1426.3
5°	1582.4	1565.6	1541.1	1518.7	1500.5	1476.0	1461.9	1447.2	1426.1	1407.2	1391.8
7.5°	1677.8	1644.7	1606.5	1565.3	1527.0	1490.0	1460.1	1433.4	1404.0	1376.1	1354.4
10°	1753.5	1705.8	1652.5	1595.1	1546.0	1498.3	1458.4	1423.3	1385.5	1352.5	1325.3
12.5°	1839.8	1769.2	1695.7	1625.9	1567.9	1501.7	1453.3	1408.8	1365.9	1326.2	1295.6
15°	1942.0	1852.3	1765.3	1669.4	1581.0	1498.3	1440.9	1384.8	1335.1	1294.4	1255.2
17.5°	2035.1	1933.4	1818.9	1702.1	1595.6	1497.5	1417.0	1353.7	1291.5	1241.7	1202.6
20°	2087.8	1972.1	1842.5	1721.2	1603.5	1494.2	1405.9	1330.2	1262.8	1210.3	1166.2
22.5°	2133.2	1997.9	1863.8	1734.1	1602.9	1485.1	1385.1	1307.2	1234.3	1182.9	1135.9
25°	2180.2	2018.4	1883.8	1731.7	1585.3	1463.3	1351.2	1262.8	1190.0	1129.7	1081.4
27.5°	2220.6	2017.0	1857.3	1693.7	1557.5	1435.3	1315.5	1220.8	1143.4	1078.0	1028.9
30°	2247.5	2019.7	1829.8	1667.9	1530.6	1404.4	1288.1	1192.8	1111.5	1044.9	998.6
32.5°	2264.3	2018.0	1804.6	1632.1	1488.0	1376.4	1258.4	1159.7	1076.2	1010.8	966.2
35°	2274.1	2005.7	1761.1	1557.9	1419.2	1310.5	1211.7	1109.4	1021.8	960.8	910.3
37.5°	2254.5	1979.8	1710.7	1486.4	1334.5	1227.5	1144.4	1057.2	973.4	906.3	862.8
40°	2223.7	1963.0	1671.4	1436.0	1276.2	1173.1	1102.4	1016.9	934.2	870.4	829.7
42.5°	2164.8	1928.8	1628.3	1379.9	1215.7	1112.6	1047.4	976.0	897.8	837.9	797.3
45°	2021.2	1854.3	1563.5	1295.8	1126.2	1019.7	962.2	910.3	839.5	781.4	746.4
47.5°	1821.9	1742.4	1469.9	1207.1	1032.9	930.4	870.7	828.9	777.2	730.2	696.6
50°	1683.4	1650.4	1406.5	1146.6	970.6	870.4	813.0	775.1	738.0	691.0	660.1
52.5°	1523.6	1543.9	1332.6	1083.7	907.3	808.8	754.7	724.6	690.9	652.3	625.4
55°	1298.6	1372.2	1204.7	978.3	813.0	719.1	667.9	641.2	621.6	592.9	569.8
57.5°	1088.0	1181.6	1066.5	869.7	720.3	639.3	590.2	561.2	548.6	533.6	515.4
60°	963.0	1055.4	967.9	796.8	658.1	580.9	537.5	513.0	500.3	489.9	474.5
62.5°	851.3	944.9	871.4	722.8	596.9	525.5	487.6	463.7	453.9	448.4	435.2
65°	698.0	778.6	729.5	607.6	509.5	446.4	412.1	395.3	386.1	384.1	375.7
67.5°	568.1	629.5	593.7	504.0	426.8	372.3	343.1	328.9	321.8	321.1	314.8
70°	482.9	540.3	513.0	431.7	365.2	322.4	297.1	284.5	280.4	279.6	276.2
72.5°	416.7	456.8	435.1	367.2	315.8	277.0	258.4	245.3	240.5	241.5	239.2
75°	308.4	338.5	325.9	278.9	237.6	212.3	196.9	188.5	184.3	186.5	183.6
77.5°	221.9	240.9	229.6	197.1	171.6	153.4	142.0	136.8	133.0	132.9	131.6
80°	167.5	178.7	172.4	152.8	131.8	116.4	107.2	103.7	101.7	100.9	100.2
82.5°	119.3	128.9	121.4	107.9	93.6	84.4	79.2	74.5	73.0	73.5	72.8
85°	60.3	63.8	61.0	52.5	47.0	42.7	39.9	37.8	36.5	37.2	35.8
87.5°	23.4	23.5	21.4	18.9	17.5	15.4	15.2	13.7	12.9	13.2	13.0
90°	13.3	11.1	9.1	7.7	6.2	4.2	2.8	1.4	2.8	4.2	6.2
92.5°	88.5	58.6	40.3	30.0	24.2	18.7	12.8	8.6	12.8	18.7	24.2
95°	253.8	149.9	90.6	63.4	45.3	33.4	25.8	23.7	25.8	33.4	45.3
97.5°	278.5	161.3	104.7	75.3	57.4	47.2	41.1	40.4	41.1	47.2	57.4
100°	262.8	159.6	110.8	83.6	67.0	57.2	52.3	51.6	52.3	57.2	67.0
102.5°	249.4	161.8	118.1	93.2	78.1	68.8	64.6	63.3	64.6	68.8	78.1
105°	239.8	168.0	130.4	108.8	95.5	87.1	82.9	80.9	82.9	87.1	95.5
107.5°	239.2	179.4	146.4	126.4	113.9	105.7	101.7	99.5	101.7	105.7	113.9
110°	241.9	189.0	157.6	138.0	126.2	118.5	115.0	113.0	115.0	118.5	126.2





TEST NUMBER: P332065-940

CATALOG NUMBER: S123DIP-S1165D805U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	247.4	198.4	169.2	150.3	138.5	130.8	127.3	125.2	127.3	130.8	138.5
115°	256.5	214.0	187.5	168.7	156.9	149.9	145.7	142.9	145.7	149.9	156.9
117.5°	268.6	230.6	204.4	187.0	173.7	167.3	163.8	160.6	163.8	167.3	173.7
120°	277.5	241.2	216.2	198.7	185.5	178.4	175.0	172.9	175.0	178.4	185.5
122.5°	285.8	252.4	227.8	209.3	196.6	189.0	185.6	183.5	185.6	189.0	196.6
125°	299.1	268.4	244.0	225.2	212.0	204.3	200.1	198.7	200.1	204.3	212.0
127.5°	310.0	282.3	258.8	240.0	225.3	217.5	212.3	210.3	212.3	217.5	225.3
130°	317.2	290.7	267.7	248.9	234.3	225.9	219.6	217.5	219.6	225.9	234.3
132.5°	323.9	297.9	275.5	257.3	242.6	232.6	225.8	223.1	225.8	232.6	242.6
135°	332.5	308.8	287.2	268.4	253.8	243.3	235.7	232.8	235.7	243.3	253.8
137.5°	338.9	316.4	295.6	278.1	263.7	252.5	245.0	242.0	245.0	252.5	263.7
140°	342.3	321.4	301.1	283.7	269.8	258.7	251.6	248.2	251.6	258.7	269.8
142.5°	345.6	325.3	305.6	289.4	275.4	265.4	257.8	254.9	257.8	265.4	275.4
145°	349.3	330.5	312.4	296.3	284.5	274.0	267.7	265.6	267.7	274.0	284.5
147.5°	351.5	334.7	318.1	304.3	292.9	283.9	277.8	276.5	277.8	283.9	292.9
150°	352.0	337.4	321.4	308.8	299.1	290.0	284.5	283.7	284.5	290.0	299.1
152.5°	353.2	339.1	325.3	313.3	304.7	296.7	291.1	291.0	291.1	296.7	304.7
155°	353.5	342.3	330.5	320.7	313.0	306.0	301.8	301.8	301.8	306.0	313.0
157.5°	354.2	344.1	334.7	327.1	320.6	314.4	311.0	310.5	311.0	314.4	320.6
160°	354.2	345.8	337.4	330.5	325.6	320.0	317.2	317.2	317.2	320.0	325.6
162.5°	353.6	346.3	339.1	333.2	329.0	324.5	322.3	322.3	322.3	324.5	329.0
165°	352.0	347.1	341.6	336.7	333.9	330.5	329.0	329.8	329.0	330.5	333.9
167.5°	351.0	347.1	343.0	339.9	338.0	335.4	334.7	335.5	334.7	335.4	338.0
170°	349.3	346.5	343.0	341.6	340.2	338.1	337.4	338.9	337.4	338.1	340.2
172.5°	348.7	346.5	343.6	342.7	341.9	340.4	340.2	341.1	340.2	340.4	341.9
175°	347.1	345.8	344.4	343.7	343.7	342.3	343.0	343.7	343.0	342.3	343.7
177.5°	346.1	344.9	344.4	344.4	344.4	343.8	344.4	344.9	344.4	343.8	344.4
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



TEST NUMBER: P332065-940

CATALOG NUMBER: S123DIP-S1165D805U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1422.4	1418.4	1412.8	1404.4	1397.7	1387.1	1387.1	1388.8	1388.8	1388.2	1387.1
5°	1379.2	1368.7	1356.1	1341.4	1326.0	1310.5	1307.7	1302.1	1297.9	1295.1	1291.6
7.5°	1333.6	1315.0	1296.6	1276.0	1257.2	1241.7	1230.9	1221.9	1216.2	1210.1	1205.5
10°	1302.8	1279.7	1257.9	1236.3	1212.4	1193.5	1181.6	1173.1	1166.9	1161.3	1158.4
12.5°	1266.4	1239.9	1215.9	1195.3	1169.2	1149.8	1138.4	1134.4	1127.0	1115.3	1109.1
15°	1213.1	1188.6	1159.8	1128.3	1115.7	1091.9	1078.5	1072.3	1068.0	1058.9	1056.1
17.5°	1167.5	1135.4	1103.2	1079.7	1056.2	1036.9	1029.5	1021.6	1016.0	1008.6	1006.4
20°	1131.1	1102.4	1072.9	1047.8	1023.1	1002.2	995.9	990.2	984.6	981.1	978.3
22.5°	1094.1	1065.4	1041.0	1017.4	991.2	977.5	970.6	964.5	960.6	958.1	955.4
25°	1042.1	1016.9	989.5	968.5	947.5	938.3	934.2	930.7	927.9	924.3	923.6
27.5°	995.6	968.1	945.9	926.3	911.2	903.7	899.6	897.9	898.5	899.7	900.5
30°	960.8	935.6	917.4	900.5	886.5	879.5	878.8	878.8	881.6	882.3	883.7
32.5°	928.9	908.1	889.9	873.6	863.0	858.2	860.9	860.9	863.1	865.0	867.5
35°	882.3	864.1	850.1	836.1	827.0	829.0	830.5	831.9	835.4	839.5	842.4
37.5°	837.9	822.1	807.4	796.6	792.4	796.1	799.5	802.5	806.5	809.8	812.5
40°	805.9	794.0	780.0	770.2	771.6	773.7	776.5	780.0	783.5	785.6	788.5
42.5°	776.2	763.8	753.1	744.9	746.9	749.6	751.3	753.1	757.2	761.0	762.6
45°	730.9	721.1	711.3	706.4	707.8	709.3	710.6	712.7	716.2	719.1	719.7
47.5°	680.1	673.2	666.6	661.8	664.1	663.5	665.4	669.9	670.9	672.6	676.5
50°	647.6	641.2	633.6	632.1	632.1	632.1	632.8	638.5	638.5	641.2	644.1
52.5°	611.7	607.6	602.7	600.2	599.1	599.1	602.0	604.8	605.9	609.8	612.7
55°	558.6	554.4	550.1	548.0	546.6	548.0	553.7	555.0	558.6	560.6	562.8
57.5°	503.2	500.0	496.6	495.4	495.2	497.0	500.1	504.3	505.2	511.6	514.8
60°	466.7	461.8	459.1	459.1	457.6	464.0	462.5	469.6	470.9	475.2	480.1
62.5°	429.2	422.6	421.5	421.5	423.5	425.3	427.2	430.3	433.9	439.3	443.1
65°	368.6	365.2	370.1	369.3	367.9	372.1	372.1	375.7	379.9	384.8	392.4
67.5°	311.3	309.5	309.9	309.9	312.0	314.4	316.4	319.4	324.5	329.7	334.7
70°	272.6	274.7	271.3	274.0	276.2	276.8	278.2	282.4	288.0	291.5	297.1
72.5°	235.1	234.9	235.3	236.5	238.5	239.8	241.2	246.0	252.2	255.1	259.6
75°	180.8	180.1	182.2	182.2	185.7	187.1	188.5	190.6	196.3	200.5	203.9
77.5°	132.1	132.9	132.4	134.8	133.8	134.1	138.5	140.6	141.2	149.5	151.2
80°	99.5	100.9	101.7	102.3	103.0	101.7	106.6	108.6	108.6	113.5	117.0
82.5°	71.5	72.3	74.2	74.8	75.0	76.4	76.8	78.4	80.1	82.1	86.8
85°	35.8	37.8	38.5	37.8	38.5	37.2	39.2	39.9	40.7	40.7	40.7
87.5°	12.8	13.6	13.5	14.4	14.3	15.2	15.2	14.2	14.3	16.1	14.2
90°	7.7	9.1	11.1	13.3	15.3	17.4	16.8	17.4	18.1	18.8	20.2
92.5°	30.0	40.3	58.6	88.5	118.0	107.2	80.9	58.7	46.5	41.1	37.5
95°	63.4	90.6	149.9	253.8	368.1	413.4	335.4	251.0	170.1	133.1	108.1
97.5°	75.3	104.7	161.3	278.5	469.0	640.7	685.5	625.6	501.1	411.2	327.8
100°	83.6	110.8	159.6	262.8	446.2	660.2	797.5	822.0	765.4	683.9	584.9
102.5°	93.2	118.1	161.8	249.4	412.7	623.9	803.2	887.2	885.4	837.9	775.1
105°	108.8	130.4	168.0	239.8	371.6	560.5	760.6	906.3	976.0	989.3	971.2
107.5°	126.4	146.4	179.4	239.2	345.4	504.4	686.2	851.4	964.6	1025.6	1050.4
110°	138.0	157.6	189.0	241.9	335.4	472.7	639.3	799.0	927.2	1015.0	1063.9



TEST NUMBER: P332065-940

CATALOG NUMBER: S123DIP-S1165D805U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	150.3	169.2	198.4	247.4	329.8	451.5	598.6	747.1	878.2	976.6	1039.3
115°	168.7	187.5	214.0	256.5	327.7	428.7	549.4	678.3	799.6	902.1	978.1
117.5°	187.0	204.4	230.6	268.6	329.0	415.4	519.7	628.6	733.3	825.3	902.4
120°	198.7	216.2	241.2	277.5	331.2	409.2	504.1	602.4	696.4	780.2	850.5
122.5°	209.3	227.8	252.4	285.8	335.0	405.4	491.2	581.8	666.9	744.4	809.9
125°	225.2	244.0	268.4	299.1	340.9	400.2	474.7	554.2	630.3	697.1	753.0
127.5°	240.0	258.8	282.3	310.0	347.6	397.7	460.3	530.3	598.0	658.4	709.2
130°	248.9	267.7	290.7	317.2	352.0	396.0	452.5	515.2	577.9	634.5	681.8
132.5°	257.3	275.5	297.9	323.9	355.4	395.4	445.2	501.2	559.0	611.5	656.7
135°	268.4	287.2	308.8	332.5	360.4	394.6	435.7	482.4	531.9	577.2	617.0
137.5°	278.1	295.6	316.4	338.9	363.8	393.1	427.5	465.3	505.9	544.9	579.3
140°	283.7	301.1	321.4	342.3	366.0	392.5	422.5	455.2	490.8	524.2	554.2
142.5°	289.4	305.6	325.3	345.6	367.7	391.4	418.0	445.8	476.3	505.3	531.4
145°	296.3	312.4	330.5	349.3	368.8	389.7	412.1	434.4	457.4	479.7	499.9
147.5°	304.3	318.1	334.7	351.5	368.8	387.1	406.2	425.0	443.3	461.3	475.6
150°	308.8	321.4	337.4	352.0	368.8	384.9	402.3	418.3	434.4	449.0	462.2
152.5°	313.3	325.3	339.1	353.2	367.1	382.0	397.8	412.1	426.0	438.9	450.0
155°	320.7	330.5	342.3	353.5	365.3	377.2	391.1	403.0	414.1	424.5	432.9
157.5°	327.1	334.7	344.1	354.2	362.9	372.8	383.6	393.2	402.5	410.6	417.1
160°	330.5	337.4	345.8	354.2	361.9	369.5	378.5	387.6	395.3	402.3	407.2
162.5°	333.2	339.1	346.3	353.6	359.6	366.1	373.5	380.9	387.4	393.9	398.2
165°	336.7	341.6	347.1	352.0	356.2	361.1	366.7	372.3	376.5	381.4	384.9
167.5°	339.9	343.0	347.1	351.0	352.9	356.1	360.2	364.7	367.9	370.8	373.3
170°	341.6	343.0	346.5	349.3	350.7	352.8	356.2	359.7	361.9	364.6	366.0
172.5°	342.7	343.6	346.5	348.7	349.0	350.0	352.3	355.3	356.8	359.0	359.9
175°	343.7	344.4	345.8	347.1	346.5	346.5	347.9	349.3	350.0	351.3	351.3
177.5°	344.4	344.4	344.9	346.1	344.9	344.4	344.9	345.5	346.1	346.6	346.6
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



TEST NUMBER: P332065-940

CATALOG NUMBER: S123DIP-S1165D805U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1383.1	1382.6	1386.5	1383.7	1386.5	1382.6	1383.1	1387.1	1388.2	1388.8	1388.8
5°	1287.4	1289.5	1282.5	1282.5	1282.5	1289.5	1287.4	1291.6	1295.1	1297.9	1302.1
7.5°	1202.2	1199.1	1199.4	1195.6	1199.4	1199.1	1202.2	1205.5	1210.1	1216.2	1221.9
10°	1150.0	1145.8	1144.4	1145.1	1144.4	1145.8	1150.0	1158.4	1161.3	1166.9	1173.1
12.5°	1106.9	1106.0	1096.8	1096.9	1096.8	1106.0	1106.9	1109.1	1115.3	1127.0	1134.4
15°	1056.1	1042.9	1041.4	1045.6	1041.4	1042.9	1056.1	1056.1	1058.9	1068.0	1072.3
17.5°	1005.2	998.3	998.6	996.6	998.6	998.3	1005.2	1006.4	1008.6	1016.0	1021.6
20°	978.3	974.1	973.4	968.5	973.4	974.1	978.3	978.3	981.1	984.6	990.2
22.5°	953.7	952.3	952.7	947.3	952.7	952.3	953.7	955.4	958.1	960.6	964.5
25°	923.0	926.5	923.6	923.6	923.6	926.5	923.0	923.6	924.3	927.9	930.7
27.5°	902.2	902.1	900.7	900.7	900.7	902.1	902.2	900.5	899.7	898.5	897.9
30°	886.5	885.8	887.3	887.3	887.3	885.8	886.5	883.7	882.3	881.6	878.8
32.5°	870.8	871.8	872.1	872.6	872.1	871.8	870.8	867.5	865.0	863.1	860.9
35°	846.6	847.3	849.4	848.0	849.4	847.3	846.6	842.4	839.5	835.4	831.9
37.5°	813.8	817.0	816.3	817.4	816.3	817.0	813.8	812.5	809.8	806.5	802.5
40°	789.1	791.2	790.5	790.5	790.5	791.2	789.1	788.5	785.6	783.5	780.0
42.5°	763.9	765.4	763.6	762.5	763.6	765.4	763.9	762.6	761.0	757.2	753.1
45°	722.6	721.1	723.3	720.4	723.3	721.1	722.6	719.7	719.1	716.2	712.7
47.5°	676.3	677.7	678.2	680.4	678.2	677.7	676.3	676.5	672.6	670.9	669.9
50°	645.4	649.6	649.6	649.0	649.6	649.6	645.4	644.1	641.2	638.5	638.5
52.5°	615.2	617.2	619.9	619.8	619.9	617.2	615.2	612.7	609.8	605.9	604.8
55°	568.4	569.8	571.1	571.9	571.1	569.8	568.4	562.8	560.6	558.6	555.0
57.5°	519.9	519.3	522.6	523.6	522.6	519.3	519.9	514.8	511.6	505.2	504.3
60°	485.6	485.6	491.2	493.4	491.2	485.6	485.6	480.1	475.2	470.9	469.6
62.5°	449.2	451.5	457.1	454.1	457.1	451.5	449.2	443.1	439.3	433.9	430.3
65°	395.9	401.5	400.8	403.7	400.8	401.5	395.9	392.4	384.8	379.9	375.7
67.5°	340.3	343.8	348.8	349.3	348.8	343.8	340.3	334.7	329.7	324.5	319.4
70°	302.7	306.2	309.1	311.1	309.1	306.2	302.7	297.1	291.5	288.0	282.4
72.5°	266.4	268.1	274.8	271.9	274.8	268.1	266.4	259.6	255.1	252.2	246.0
75°	208.8	213.7	217.9	215.9	217.9	213.7	208.8	203.9	200.5	196.3	190.6
77.5°	154.4	159.3	161.3	159.5	161.3	159.3	154.4	151.2	149.5	141.2	140.6
80°	122.0	121.3	125.5	124.8	125.5	121.3	122.0	117.0	113.5	108.6	108.6
82.5°	89.4	88.7	90.7	91.1	90.7	88.7	89.4	86.8	82.1	80.1	78.4
85°	43.4	45.6	42.7	42.1	42.7	45.6	43.4	40.7	40.7	40.7	39.9
87.5°	14.0	14.2	13.7	13.0	13.7	14.2	14.0	14.2	16.1	14.3	14.2
90°	19.5	20.2	21.0	20.2	21.0	20.2	19.5	20.2	18.8	18.1	17.4
92.5°	36.3	34.2	34.9	33.6	34.9	34.2	36.3	37.5	41.1	46.5	58.7
95°	94.8	88.5	83.6	80.9	83.6	88.5	94.8	108.1	133.1	170.1	251.0
97.5°	276.3	245.0	226.1	220.2	226.1	245.0	276.3	327.8	411.2	501.1	625.6
100°	514.5	463.6	436.4	437.1	436.4	463.6	514.5	584.9	683.9	765.4	822.0
102.5°	720.3	680.0	657.3	641.2	657.3	680.0	720.3	775.1	837.9	885.4	887.2
105°	939.1	912.6	890.3	886.8	890.3	912.6	939.1	971.2	989.3	976.0	906.3
107.5°	1051.1	1042.1	1034.6	1028.1	1034.6	1042.1	1051.1	1050.4	1025.6	964.6	851.4
110°	1083.3	1089.0	1087.5	1086.2	1087.5	1089.0	1083.3	1063.9	1015.0	927.2	799.0



TEST NUMBER: P332065-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1075.0	1092.3	1097.6	1097.9	1097.6	1092.3	1075.0	1039.3	976.6	878.2	747.1
115°	1030.4	1061.0	1075.0	1078.5	1075.0	1061.0	1030.4	978.1	902.1	799.6	678.3
117.5°	956.9	992.0	1012.1	1016.9	1012.1	992.0	956.9	902.4	825.3	733.3	628.6
120°	905.6	944.7	961.4	965.5	961.4	944.7	905.6	850.5	780.2	696.4	602.4
122.5°	858.7	893.9	912.3	917.6	912.3	893.9	858.7	809.9	744.4	666.9	581.8
125°	797.5	828.2	845.6	850.5	845.6	828.2	797.5	753.0	697.1	630.3	554.2
127.5°	748.9	775.1	790.9	795.3	790.9	775.1	748.9	709.2	658.4	598.0	530.3
130°	718.8	743.9	758.5	764.1	758.5	743.9	718.8	681.8	634.5	577.9	515.2
132.5°	691.4	716.6	729.5	733.4	729.5	716.6	691.4	656.7	611.5	559.0	501.2
135°	651.1	672.1	684.6	689.5	684.6	672.1	651.1	617.0	577.2	531.9	482.4
137.5°	608.1	629.3	639.9	643.1	639.9	629.3	608.1	579.3	544.9	505.9	465.3
140°	580.8	600.2	611.4	610.7	611.4	600.2	580.8	554.2	524.2	490.8	455.2
142.5°	553.9	571.2	581.3	580.6	581.3	571.2	553.9	531.4	505.3	476.3	445.8
145°	517.3	531.9	537.5	538.9	537.5	531.9	517.3	499.9	479.7	457.4	434.4
147.5°	488.8	498.7	504.1	504.6	504.1	498.7	488.8	475.6	461.3	443.3	425.0
150°	472.7	480.4	484.6	484.6	484.6	480.4	472.7	462.2	449.0	434.4	418.3
152.5°	458.2	465.3	467.8	467.8	467.8	465.3	458.2	450.0	438.9	426.0	412.1
155°	439.2	444.8	446.2	446.8	446.2	444.8	439.2	432.9	424.5	414.1	403.0
157.5°	422.6	426.8	427.9	427.8	427.9	426.8	422.6	417.1	410.6	402.5	393.2
160°	412.1	416.2	416.2	415.5	416.2	416.2	412.1	407.2	402.3	395.3	387.6
162.5°	401.4	405.0	405.0	404.4	405.0	405.0	401.4	398.2	393.9	387.4	380.9
165°	387.6	390.4	389.7	389.7	389.7	390.4	387.6	384.9	381.4	376.5	372.3
167.5°	374.5	376.5	375.8	375.8	375.8	376.5	374.5	373.3	370.8	367.9	364.7
170°	366.7	368.1	367.4	367.4	367.4	368.1	366.7	366.0	364.6	361.9	359.7
172.5°	360.0	361.4	360.2	359.6	360.2	361.4	360.0	359.9	359.0	356.8	355.3
175°	351.3	352.0	351.3	350.7	351.3	352.0	351.3	351.3	351.3	350.0	349.3
177.5°	346.1	346.6	345.5	345.5	345.5	346.6	346.1	346.6	346.6	346.1	345.5
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



TEST NUMBER: P332065-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1387.1	1387.1	1397.7	1404.4	1412.8	1418.4	1422.4	1426.3	1433.1	1442.0	1452.1
5°	1307.7	1310.5	1326.0	1341.4	1356.1	1368.7	1379.2	1391.8	1407.2	1426.1	1447.2
7.5°	1230.9	1241.7	1257.2	1276.0	1296.6	1315.0	1333.6	1354.4	1376.1	1404.0	1433.4
10°	1181.6	1193.5	1212.4	1236.3	1257.9	1279.7	1302.8	1325.3	1352.5	1385.5	1423.3
12.5°	1138.4	1149.8	1169.2	1195.3	1215.9	1239.9	1266.4	1295.6	1326.2	1365.9	1408.8
15°	1078.5	1091.9	1115.7	1128.3	1159.8	1188.6	1213.1	1255.2	1294.4	1335.1	1384.8
17.5°	1029.5	1036.9	1056.2	1079.7	1103.2	1135.4	1167.5	1202.6	1241.7	1291.5	1353.7
20°	995.9	1002.2	1023.1	1047.8	1072.9	1102.4	1131.1	1166.2	1210.3	1262.8	1330.2
22.5°	970.6	977.5	991.2	1017.4	1041.0	1065.4	1094.1	1135.9	1182.9	1234.3	1307.2
25°	934.2	938.3	947.5	968.5	989.5	1016.9	1042.1	1081.4	1129.7	1190.0	1262.8
27.5°	899.6	903.7	911.2	926.3	945.9	968.1	995.6	1028.9	1078.0	1143.4	1220.8
30°	878.8	879.5	886.5	900.5	917.4	935.6	960.8	998.6	1044.9	1111.5	1192.8
32.5°	860.9	858.2	863.0	873.6	889.9	908.1	928.9	966.2	1010.8	1076.2	1159.7
35°	830.5	829.0	827.0	836.1	850.1	864.1	882.3	910.3	960.8	1021.8	1109.4
37.5°	799.5	796.1	792.4	796.6	807.4	822.1	837.9	862.8	906.3	973.4	1057.2
40°	776.5	773.7	771.6	770.2	780.0	794.0	805.9	829.7	870.4	934.2	1016.9
42.5°	751.3	749.6	746.9	744.9	753.1	763.8	776.2	797.3	837.9	897.8	976.0
45°	710.6	709.3	707.8	706.4	711.3	721.1	730.9	746.4	781.4	839.5	910.3
47.5°	665.4	663.5	664.1	661.8	666.6	673.2	680.1	696.6	730.2	777.2	828.9
50°	632.8	632.1	632.1	632.1	633.6	641.2	647.6	660.1	691.0	738.0	775.1
52.5°	602.0	599.1	599.1	600.2	602.7	607.6	611.7	625.4	652.3	690.9	724.6
55°	553.7	548.0	546.6	548.0	550.1	554.4	558.6	569.8	592.9	621.6	641.2
57.5°	500.1	497.0	495.2	495.4	496.6	500.0	503.2	515.4	533.6	548.6	561.2
60°	462.5	464.0	457.6	459.1	459.1	461.8	466.7	474.5	489.9	500.3	513.0
62.5°	427.2	425.3	423.5	421.5	421.5	422.6	429.2	435.2	448.4	453.9	463.7
65°	372.1	372.1	367.9	369.3	370.1	365.2	368.6	375.7	384.1	386.1	395.3
67.5°	316.4	314.4	312.0	309.9	309.9	309.5	311.3	314.8	321.1	321.8	328.9
70°	278.2	276.8	276.2	274.0	271.3	274.7	272.6	276.2	279.6	280.4	284.5
72.5°	241.2	239.8	238.5	236.5	235.3	234.9	235.1	239.2	241.5	240.5	245.3
75°	188.5	187.1	185.7	182.2	182.2	180.1	180.8	183.6	186.5	184.3	188.5
77.5°	138.5	134.1	133.8	134.8	132.4	132.9	132.1	131.6	132.9	133.0	136.8
80°	106.6	101.7	103.0	102.3	101.7	100.9	99.5	100.2	100.9	101.7	103.7
82.5°	76.8	76.4	75.0	74.8	74.2	72.3	71.5	72.8	73.5	73.0	74.5
85°	39.2	37.2	38.5	37.8	38.5	37.8	35.8	35.8	37.2	36.5	37.8
87.5°	15.2	15.2	14.3	14.4	13.5	13.6	12.8	13.0	13.2	12.9	13.7
90°	16.8	17.4	15.3	13.3	11.1	9.1	7.7	6.2	4.2	2.8	1.4
92.5°	80.9	107.2	118.0	88.5	58.6	40.3	30.0	24.2	18.7	12.8	8.6
95°	335.4	413.4	368.1	253.8	149.9	90.6	63.4	45.3	33.4	25.8	23.7
97.5°	685.5	640.7	469.0	278.5	161.3	104.7	75.3	57.4	47.2	41.1	40.4
100°	797.5	660.2	446.2	262.8	159.6	110.8	83.6	67.0	57.2	52.3	51.6
102.5°	803.2	623.9	412.7	249.4	161.8	118.1	93.2	78.1	68.8	64.6	63.3
105°	760.6	560.5	371.6	239.8	168.0	130.4	108.8	95.5	87.1	82.9	80.9
107.5°	686.2	504.4	345.4	239.2	179.4	146.4	126.4	113.9	105.7	101.7	99.5
110°	639.3	472.7	335.4	241.9	189.0	157.6	138.0	126.2	118.5	115.0	113.0



TEST NUMBER: P332065-940

CATALOG NUMBER: S123DIP-S1165D805U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	598.6	451.5	329.8	247.4	198.4	169.2	150.3	138.5	130.8	127.3	125.2
115°	549.4	428.7	327.7	256.5	214.0	187.5	168.7	156.9	149.9	145.7	142.9
117.5°	519.7	415.4	329.0	268.6	230.6	204.4	187.0	173.7	167.3	163.8	160.6
120°	504.1	409.2	331.2	277.5	241.2	216.2	198.7	185.5	178.4	175.0	172.9
122.5°	491.2	405.4	335.0	285.8	252.4	227.8	209.3	196.6	189.0	185.6	183.5
125°	474.7	400.2	340.9	299.1	268.4	244.0	225.2	212.0	204.3	200.1	198.7
127.5°	460.3	397.7	347.6	310.0	282.3	258.8	240.0	225.3	217.5	212.3	210.3
130°	452.5	396.0	352.0	317.2	290.7	267.7	248.9	234.3	225.9	219.6	217.5
132.5°	445.2	395.4	355.4	323.9	297.9	275.5	257.3	242.6	232.6	225.8	223.1
135°	435.7	394.6	360.4	332.5	308.8	287.2	268.4	253.8	243.3	235.7	232.8
137.5°	427.5	393.1	363.8	338.9	316.4	295.6	278.1	263.7	252.5	245.0	242.0
140°	422.5	392.5	366.0	342.3	321.4	301.1	283.7	269.8	258.7	251.6	248.2
142.5°	418.0	391.4	367.7	345.6	325.3	305.6	289.4	275.4	265.4	257.8	254.9
145°	412.1	389.7	368.8	349.3	330.5	312.4	296.3	284.5	274.0	267.7	265.6
147.5°	406.2	387.1	368.8	351.5	334.7	318.1	304.3	292.9	283.9	277.8	276.5
150°	402.3	384.9	368.8	352.0	337.4	321.4	308.8	299.1	290.0	284.5	283.7
152.5°	397.8	382.0	367.1	353.2	339.1	325.3	313.3	304.7	296.7	291.1	291.0
155°	391.1	377.2	365.3	353.5	342.3	330.5	320.7	313.0	306.0	301.8	301.8
157.5°	383.6	372.8	362.9	354.2	344.1	334.7	327.1	320.6	314.4	311.0	310.5
160°	378.5	369.5	361.9	354.2	345.8	337.4	330.5	325.6	320.0	317.2	317.2
162.5°	373.5	366.1	359.6	353.6	346.3	339.1	333.2	329.0	324.5	322.3	322.3
165°	366.7	361.1	356.2	352.0	347.1	341.6	336.7	333.9	330.5	329.0	329.8
167.5°	360.2	356.1	352.9	351.0	347.1	343.0	339.9	338.0	335.4	334.7	335.5
170°	356.2	352.8	350.7	349.3	346.5	343.0	341.6	340.2	338.1	337.4	338.9
172.5°	352.3	350.0	349.0	348.7	346.5	343.6	342.7	341.9	340.4	340.2	341.1
175°	347.9	346.5	346.5	347.1	345.8	344.4	343.7	343.7	342.3	343.0	343.7
177.5°	344.9	344.4	344.9	346.1	344.9	344.4	344.4	344.4	343.8	344.4	344.9
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



TEST NUMBER: P332065-940

CATALOG NUMBER: S123DIP-S1165D805U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1455.5	1458.2	1467.8	1474.5	1482.4	1486.8	1491.3	1494.7	1499.1	1500.3	1516.5
5°	1461.9	1476.0	1500.5	1518.7	1541.1	1565.6	1582.4	1590.2	1610.4	1627.3	1660.9
7.5°	1460.1	1490.0	1527.0	1565.3	1606.5	1644.7	1677.8	1717.0	1744.9	1786.8	1828.2
10°	1458.4	1498.3	1546.0	1595.1	1652.5	1705.8	1753.5	1806.7	1850.8	1909.0	1958.7
12.5°	1453.3	1501.7	1567.9	1625.9	1695.7	1769.2	1839.8	1908.2	1947.3	2044.2	2090.0
15°	1440.9	1498.3	1581.0	1669.4	1765.3	1852.3	1942.0	2013.5	2129.0	2213.9	2267.8
17.5°	1417.0	1497.5	1595.6	1702.1	1818.9	1933.4	2035.1	2143.5	2266.2	2368.7	2478.1
20°	1405.9	1494.2	1603.5	1721.2	1842.5	1972.1	2087.8	2218.0	2352.0	2452.8	2593.0
22.5°	1385.1	1485.1	1602.9	1734.1	1863.8	1997.9	2133.2	2264.6	2419.2	2558.2	2691.7
25°	1351.2	1463.3	1585.3	1731.7	1883.8	2018.4	2180.2	2354.7	2516.0	2694.7	2827.8
27.5°	1315.5	1435.3	1557.5	1693.7	1857.3	2017.0	2220.6	2417.8	2614.9	2769.2	2867.7
30°	1288.1	1404.4	1530.6	1667.9	1829.8	2019.7	2247.5	2462.6	2654.7	2787.1	2842.5
32.5°	1258.4	1376.4	1488.0	1632.1	1804.6	2018.0	2264.3	2489.0	2656.9	2745.1	2734.3
35°	1211.7	1310.5	1419.2	1557.9	1761.1	2005.7	2274.1	2491.4	2594.4	2575.5	2432.5
37.5°	1144.4	1227.5	1334.5	1486.4	1710.7	1979.8	2254.5	2417.5	2410.8	2256.7	2049.6
40°	1102.4	1173.1	1276.2	1436.0	1671.4	1963.0	2223.7	2329.5	2239.8	2024.6	1776.6
42.5°	1047.4	1112.6	1215.7	1379.9	1628.3	1928.8	2164.8	2195.5	2020.0	1772.4	1545.0
45°	962.2	1019.7	1126.2	1295.8	1563.5	1854.3	2021.2	1946.2	1709.9	1454.2	1281.1
47.5°	870.7	930.4	1032.9	1207.1	1469.9	1742.4	1821.9	1662.3	1419.9	1212.4	1053.5
50°	813.0	870.4	970.6	1146.6	1406.5	1650.4	1683.4	1477.3	1254.5	1072.3	941.9
52.5°	754.7	808.8	907.3	1083.7	1332.6	1543.9	1523.6	1313.6	1108.7	953.4	851.0
55°	667.9	719.1	813.0	978.3	1204.7	1372.2	1298.6	1098.1	928.5	808.1	730.2
57.5°	590.2	639.3	720.3	869.7	1066.5	1181.6	1088.0	919.1	784.2	691.4	633.4
60°	537.5	580.9	658.1	796.8	967.9	1055.4	963.0	813.7	700.1	625.8	574.0
62.5°	487.6	525.5	596.9	722.8	871.4	944.9	851.3	725.1	628.4	562.5	518.4
65°	412.1	446.4	509.5	607.6	729.5	778.6	698.0	595.7	520.7	471.6	442.2
67.5°	343.1	372.3	426.8	504.0	593.7	629.5	568.1	488.9	432.4	393.0	369.6
70°	297.1	322.4	365.2	431.7	513.0	540.3	482.9	417.7	376.3	344.8	323.1
72.5°	258.4	277.0	315.8	367.2	435.1	456.8	416.7	359.4	320.8	297.1	279.9
75°	196.9	212.3	237.6	278.9	325.9	338.5	308.4	272.6	246.6	229.9	216.5
77.5°	142.0	153.4	171.6	197.1	229.6	240.9	221.9	198.0	179.1	167.7	160.3
80°	107.2	116.4	131.8	152.8	172.4	178.7	167.5	149.3	136.0	129.7	123.3
82.5°	79.2	84.4	93.6	107.9	121.4	128.9	119.3	108.3	101.2	95.4	93.1
85°	39.9	42.7	47.0	52.5	61.0	63.8	60.3	57.4	53.2	49.8	49.8
87.5°	15.2	15.4	17.5	18.9	21.4	23.5	23.4	22.6	22.6	21.8	21.4
90°	2.8	4.2	6.2	7.7	9.1	11.1	13.3	15.3	17.4	16.8	17.4
92.5°	12.8	18.7	24.2	30.0	40.3	58.6	88.5	118.0	107.2	80.9	58.7
95°	25.8	33.4	45.3	63.4	90.6	149.9	253.8	368.1	413.4	335.4	251.0
97.5°	41.1	47.2	57.4	75.3	104.7	161.3	278.5	469.0	640.7	685.5	625.6
100°	52.3	57.2	67.0	83.6	110.8	159.6	262.8	446.2	660.2	797.5	822.0
102.5°	64.6	68.8	78.1	93.2	118.1	161.8	249.4	412.7	623.9	803.2	887.2
105°	82.9	87.1	95.5	108.8	130.4	168.0	239.8	371.6	560.5	760.6	906.3
107.5°	101.7	105.7	113.9	126.4	146.4	179.4	239.2	345.4	504.4	686.2	851.4
110°	115.0	118.5	126.2	138.0	157.6	189.0	241.9	335.4	472.7	639.3	799.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.3	130.8	138.5	150.3	169.2	198.4	247.4	329.8	451.5	598.6	747.1
115°	145.7	149.9	156.9	168.7	187.5	214.0	256.5	327.7	428.7	549.4	678.3
117.5°	163.8	167.3	173.7	187.0	204.4	230.6	268.6	329.0	415.4	519.7	628.6
120°	175.0	178.4	185.5	198.7	216.2	241.2	277.5	331.2	409.2	504.1	602.4
122.5°	185.6	189.0	196.6	209.3	227.8	252.4	285.8	335.0	405.4	491.2	581.8
125°	200.1	204.3	212.0	225.2	244.0	268.4	299.1	340.9	400.2	474.7	554.2
127.5°	212.3	217.5	225.3	240.0	258.8	282.3	310.0	347.6	397.7	460.3	530.3
130°	219.6	225.9	234.3	248.9	267.7	290.7	317.2	352.0	396.0	452.5	515.2
132.5°	225.8	232.6	242.6	257.3	275.5	297.9	323.9	355.4	395.4	445.2	501.2
135°	235.7	243.3	253.8	268.4	287.2	308.8	332.5	360.4	394.6	435.7	482.4
137.5°	245.0	252.5	263.7	278.1	295.6	316.4	338.9	363.8	393.1	427.5	465.3
140°	251.6	258.7	269.8	283.7	301.1	321.4	342.3	366.0	392.5	422.5	455.2
142.5°	257.8	265.4	275.4	289.4	305.6	325.3	345.6	367.7	391.4	418.0	445.8
145°	267.7	274.0	284.5	296.3	312.4	330.5	349.3	368.8	389.7	412.1	434.4
147.5°	277.8	283.9	292.9	304.3	318.1	334.7	351.5	368.8	387.1	406.2	425.0
150°	284.5	290.0	299.1	308.8	321.4	337.4	352.0	368.8	384.9	402.3	418.3
152.5°	291.1	296.7	304.7	313.3	325.3	339.1	353.2	367.1	382.0	397.8	412.1
155°	301.8	306.0	313.0	320.7	330.5	342.3	353.5	365.3	377.2	391.1	403.0
157.5°	311.0	314.4	320.6	327.1	334.7	344.1	354.2	362.9	372.8	383.6	393.2
160°	317.2	320.0	325.6	330.5	337.4	345.8	354.2	361.9	369.5	378.5	387.6
162.5°	322.3	324.5	329.0	333.2	339.1	346.3	353.6	359.6	366.1	373.5	380.9
165°	329.0	330.5	333.9	336.7	341.6	347.1	352.0	356.2	361.1	366.7	372.3
167.5°	334.7	335.4	338.0	339.9	343.0	347.1	351.0	352.9	356.1	360.2	364.7
170°	337.4	338.1	340.2	341.6	343.0	346.5	349.3	350.7	352.8	356.2	359.7
172.5°	340.2	340.4	341.9	342.7	343.6	346.5	348.7	349.0	350.0	352.3	355.3
175°	343.0	342.3	343.7	343.7	344.4	345.8	347.1	346.5	346.5	347.9	349.3
177.5°	344.4	343.8	344.4	344.4	344.4	344.9	346.1	344.9	344.4	344.9	345.5
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1522.2	1522.7	1528.9	1533.4	1531.2	1533.9	1535.1
5°	1663.0	1688.3	1701.6	1711.4	1712.1	1712.8	1718.4
7.5°	1862.8	1889.8	1909.6	1939.6	1948.6	1958.7	1955.8
10°	2008.6	2048.4	2082.9	2101.0	2120.7	2149.4	2126.3
12.5°	2144.7	2215.5	2267.8	2296.2	2314.6	2320.4	2309.1
15°	2369.5	2461.9	2511.7	2510.3	2573.4	2600.8	2558.0
17.5°	2575.5	2660.9	2729.3	2764.3	2816.8	2828.5	2823.2
20°	2701.6	2794.9	2848.1	2908.4	2935.7	2960.2	2964.4
22.5°	2810.4	2894.0	2951.3	3001.4	3024.3	3035.9	3043.0
25°	2922.4	2988.3	3022.6	3040.1	3046.4	3045.0	3035.9
27.5°	2914.6	2919.7	2881.9	2844.7	2811.6	2774.1	2761.2
30°	2839.0	2780.1	2675.0	2615.5	2527.8	2458.4	2486.4
32.5°	2640.0	2522.8	2404.8	2274.6	2166.8	2136.1	2105.2
35°	2253.1	2047.1	1926.5	1786.4	1730.3	1674.3	1635.7
37.5°	1822.8	1663.5	1520.5	1428.8	1372.6	1337.1	1318.1
40°	1576.1	1432.4	1314.7	1240.5	1197.7	1157.7	1152.2
42.5°	1379.4	1245.8	1157.2	1098.1	1056.9	1040.0	1027.7
45°	1129.7	1036.5	977.0	934.9	907.6	897.1	883.1
47.5°	956.2	890.3	845.6	817.0	796.4	788.5	787.5
50°	859.2	804.5	771.6	749.1	733.1	730.2	719.1
52.5°	786.3	739.0	713.3	693.7	682.1	674.2	670.8
55°	682.6	651.0	627.9	616.7	607.6	599.9	599.9
57.5°	597.3	570.9	555.6	546.1	543.2	537.8	534.3
60°	544.6	522.1	510.2	501.8	496.1	496.9	490.5
62.5°	492.9	478.4	467.0	458.6	451.9	452.0	452.5
65°	419.8	408.6	400.2	397.3	393.2	388.3	389.7
67.5°	355.7	345.2	338.7	333.9	332.4	329.8	333.9
70°	309.8	302.0	297.1	292.9	291.5	292.2	295.8
72.5°	267.7	262.3	259.0	257.1	254.0	254.1	256.5
75°	210.3	206.1	203.2	201.2	200.5	200.5	200.5
77.5°	154.4	153.5	152.2	149.1	149.3	150.1	150.3
80°	122.0	119.8	119.1	117.7	115.7	114.2	117.7
82.5°	91.1	89.0	88.3	88.0	84.8	84.5	87.5
85°	49.0	47.0	47.6	47.0	47.0	46.3	46.3
87.5°	21.0	20.6	20.3	20.7	20.3	19.9	20.9
90°	18.1	18.8	20.2	19.5	20.2	21.0	20.2
92.5°	46.5	41.1	37.5	36.3	34.2	34.9	33.6
95°	170.1	133.1	108.1	94.8	88.5	83.6	80.9
97.5°	501.1	411.2	327.8	276.3	245.0	226.1	220.2
100°	765.4	683.9	584.9	514.5	463.6	436.4	437.1
102.5°	885.4	837.9	775.1	720.3	680.0	657.3	641.2
105°	976.0	989.3	971.2	939.1	912.6	890.3	886.8
107.5°	964.6	1025.6	1050.4	1051.1	1042.1	1034.6	1028.1
110°	927.2	1015.0	1063.9	1083.3	1089.0	1087.5	1086.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	878.2	976.6	1039.3	1075.0	1092.3	1097.6	1097.9
115°	799.6	902.1	978.1	1030.4	1061.0	1075.0	1078.5
117.5°	733.3	825.3	902.4	956.9	992.0	1012.1	1016.9
120°	696.4	780.2	850.5	905.6	944.7	961.4	965.5
122.5°	666.9	744.4	809.9	858.7	893.9	912.3	917.6
125°	630.3	697.1	753.0	797.5	828.2	845.6	850.5
127.5°	598.0	658.4	709.2	748.9	775.1	790.9	795.3
130°	577.9	634.5	681.8	718.8	743.9	758.5	764.1
132.5°	559.0	611.5	656.7	691.4	716.6	729.5	733.4
135°	531.9	577.2	617.0	651.1	672.1	684.6	689.5
137.5°	505.9	544.9	579.3	608.1	629.3	639.9	643.1
140°	490.8	524.2	554.2	580.8	600.2	611.4	610.7
142.5°	476.3	505.3	531.4	553.9	571.2	581.3	580.6
145°	457.4	479.7	499.9	517.3	531.9	537.5	538.9
147.5°	443.3	461.3	475.6	488.8	498.7	504.1	504.6
150°	434.4	449.0	462.2	472.7	480.4	484.6	484.6
152.5°	426.0	438.9	450.0	458.2	465.3	467.8	467.8
155°	414.1	424.5	432.9	439.2	444.8	446.2	446.8
157.5°	402.5	410.6	417.1	422.6	426.8	427.9	427.8
160°	395.3	402.3	407.2	412.1	416.2	416.2	415.5
162.5°	387.4	393.9	398.2	401.4	405.0	405.0	404.4
165°	376.5	381.4	384.9	387.6	390.4	389.7	389.7
167.5°	367.9	370.8	373.3	374.5	376.5	375.8	375.8
170°	361.9	364.6	366.0	366.7	368.1	367.4	367.4
172.5°	356.8	359.0	359.9	360.0	361.4	360.2	359.6
175°	350.0	351.3	351.3	351.3	352.0	351.3	350.7
177.5°	346.1	346.6	346.6	346.1	346.6	345.5	345.5
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4

(END OF REPORT)