

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: P332020-840

Luminaire Tested: **S123DIP-S1000D805U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332020-840  
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-S1000D805U840-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 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: 7218.4 lumens  
Efficiency: N/A  
Efficacy: 132.7 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: General Diffuse

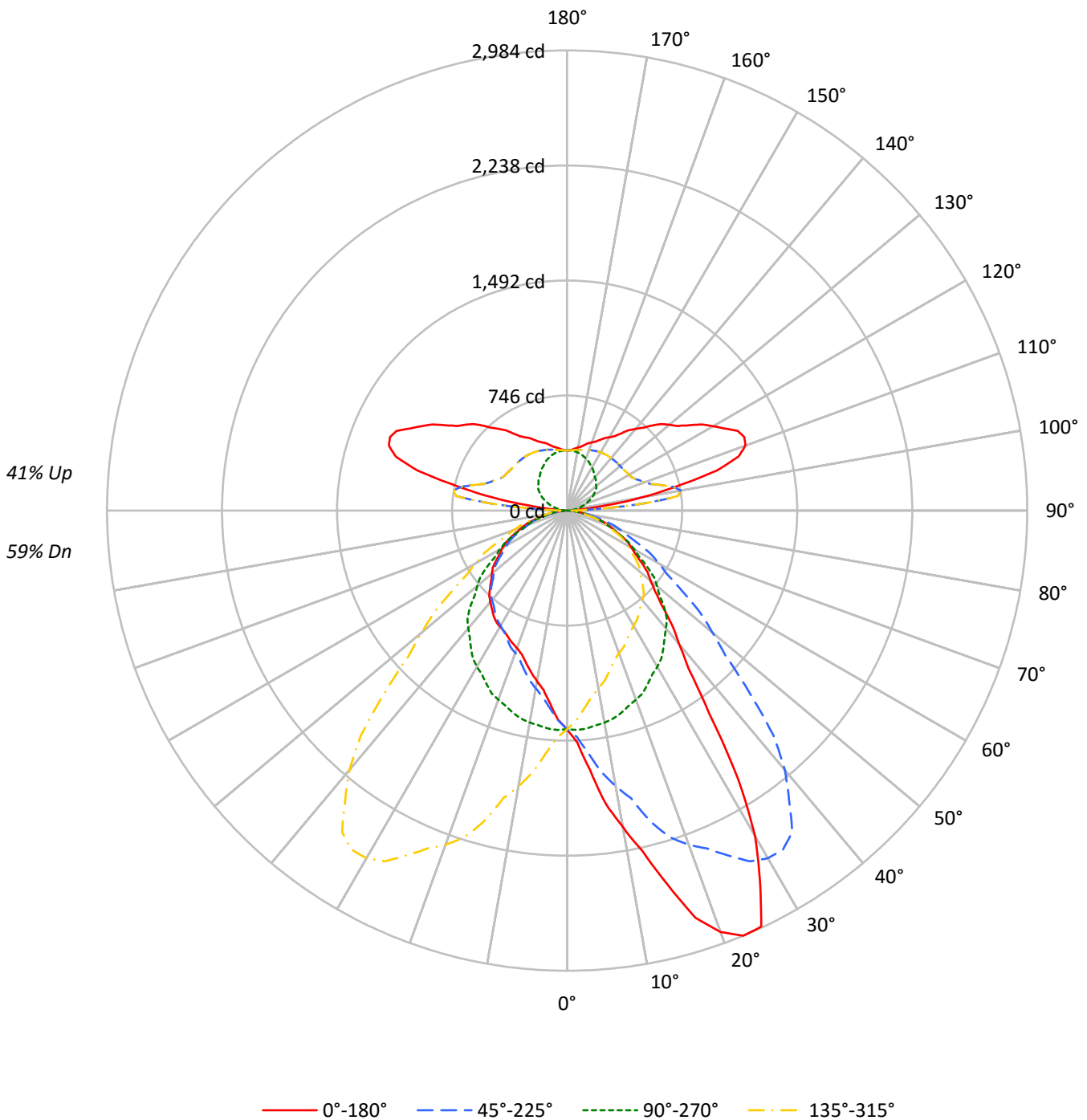
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	100	96	92	89	93	90	86	83	78	76	73	68	66	64	58	56	55	51
2	92	84	78	73	85	79	74	69	69	65	61	60	57	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	24	46	35	28	23	31	25	22	27	23	20	24	20	18	16

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

	0°	90°	180°	270°
0°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	1.9
10°-20°	448.0	6.2
20°-30°	751.9	10.4
30°-40°	851.4	11.8
40°-50°	763.5	10.6
50°-60°	616.1	8.5
60°-70°	429.4	5.9
70°-80°	225.7	3.1
80°-90°	58.2	0.8
90°-100°	217.1	3.0
100°-110°	614.6	8.5
110°-120°	604.6	8.4
120°-130°	482.3	6.7
130°-140°	380.2	5.3
140°-150°	283.8	3.9
150°-160°	197.8	2.7
160°-170°	116.2	1.6
170°-180°	37.8	0.5
0°-30°	1339.7	18.6
0°-40°	2191.1	30.4
0°-60°	3570.7	49.5
0°-90°	4284.0	59.3
90°-120°	1436.3	19.9
90°-150°	2582.6	35.8
90°-180°	2934.0	40.6
0°-180°	7218.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	54
90°	23	2	23	2	23	14
95°	92	27	92	27	92	165
105°	1004	92	1004	92	1004	991
115°	1221	162	1221	162	1221	1187
125°	963	225	963	225	963	873
135°	781	264	781	264	781	606
145°	610	301	610	301	610	388
155°	506	342	506	342	506	236
165°	441	373	441	373	441	126
175°	397	389	397	389	397	39
180°	390	390	390	390	390	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	21.1	20.1	20.5	20.9	20.5	20.8	21.1	21.5	21.9	22.6	22.7
90°	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7	19.0	19.7	17.4
92.5°	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4	91.6	121.4	133.6
95°	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3	379.8	468.2	416.9
97.5°	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5	776.3	725.6	531.2
100°	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9	903.2	747.7	505.3
102.5°	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7	909.6	706.6	467.4
105°	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4	861.4	634.8	420.8
107.5°	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2	777.1	571.3	391.1
110°	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8	724.0	535.3	379.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1	677.9	511.3	373.4
115°	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2	622.2	485.5	371.1
117.5°	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9	588.5	470.4	372.5
120°	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2	570.9	463.4	375.1
122.5°	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8	556.3	459.1	379.4
125°	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6	537.7	453.2	386.1
127.5°	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6	521.3	450.4	393.6
130°	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5	512.4	448.5	398.7
132.5°	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6	504.2	447.8	402.5
135°	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3	493.4	446.9	408.2
137.5°	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9	484.1	445.1	412.0
140°	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5	478.5	444.5	414.5
142.5°	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8	473.4	443.2	416.4
145°	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9	466.7	441.3	417.7
147.5°	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3	460.0	438.4	417.7
150°	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7	455.6	435.9	417.7
152.5°	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8	450.5	432.6	415.8
155°	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4	442.9	427.2	413.7
157.5°	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2	434.4	422.2	411.0
160°	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0	428.7	418.5	409.8
162.5°	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4	423.0	414.7	407.3
165°	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6	415.3	409.0	403.4
167.5°	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0	407.9	403.3	399.7
170°	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4	403.4	399.5	397.2
172.5°	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3	399.0	396.4	395.3
175°	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6	393.9	392.4	392.4
177.5°	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3	390.6	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	23.3	23.4	21.3	18.8	17.4	15.2	14.9	13.5	12.7	13.0	12.9
90°	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6	3.1	4.7	7.1
92.5°	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8	14.5	21.2	27.4
95°	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9	29.2	37.9	51.3
97.5°	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7	46.6	53.4	65.0
100°	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5	59.2	64.7	75.8
102.5°	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7	73.1	78.0	88.5
105°	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6	93.9	98.7	108.2
107.5°	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7	115.1	119.7	129.0
110°	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9	130.3	134.2	142.9





TEST NUMBER: P332020-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8	144.2	148.1	156.8
115°	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9	165.0	169.8	177.6
117.5°	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9	185.5	189.5	196.7
120°	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8	198.1	202.1	210.1
122.5°	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8	210.2	214.1	222.7
125°	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0	226.6	231.4	240.0
127.5°	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1	240.4	246.3	255.2
130°	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3	248.7	255.8	265.3
132.5°	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7	255.7	263.4	274.8
135°	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7	266.9	275.6	287.4
137.5°	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1	277.4	286.0	298.6
140°	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0	285.0	293.0	305.6
142.5°	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6	292.0	300.5	311.8
145°	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8	303.2	310.3	322.1
147.5°	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2	314.6	321.5	331.7
150°	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3	322.1	328.4	338.7
152.5°	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5	329.7	336.0	345.1
155°	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8	341.8	346.6	354.5
157.5°	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6	352.2	356.1	363.0
160°	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2	359.2	362.4	368.7
162.5°	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0	365.0	367.5	372.5
165°	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4	372.6	374.3	378.2
167.5°	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9	379.0	379.8	382.7
170°	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7	382.1	382.9	385.3
172.5°	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3	385.3	385.5	387.2
175°	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2	388.5	387.7	389.2
177.5°	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6	390.0	389.4	390.0
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332020-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	12.7	13.6	13.5	14.5	14.4	15.5	15.3	14.4	14.5	16.4	14.4
90°	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7	20.5	21.3	22.9
92.5°	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4	52.7	46.6	42.5
95°	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3	192.7	150.8	122.4
97.5°	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5	567.5	465.6	371.2
100°	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9	866.9	774.6	662.4
102.5°	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7	1002.7	948.9	877.8
105°	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4	1105.3	1120.3	1099.8
107.5°	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2	1092.4	1161.5	1189.6
110°	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8	1050.1	1149.5	1204.9



TEST NUMBER: P332020-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1	994.5	1106.0	1177.0
115°	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2	905.5	1021.7	1107.7
117.5°	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9	830.4	934.6	1022.0
120°	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2	788.7	883.5	963.2
122.5°	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8	755.3	843.0	917.2
125°	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6	713.8	789.5	852.7
127.5°	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6	677.2	745.7	803.1
130°	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5	654.5	718.5	772.1
132.5°	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6	633.1	692.6	743.8
135°	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3	602.4	653.7	698.7
137.5°	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9	572.9	617.1	656.1
140°	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5	555.8	593.7	627.6
142.5°	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8	539.4	572.3	601.8
145°	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9	518.0	543.2	566.1
147.5°	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3	502.0	522.4	538.7
150°	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7	491.9	508.5	523.4
152.5°	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8	482.4	497.1	509.6
155°	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4	469.0	480.8	490.3
157.5°	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2	455.9	465.0	472.4
160°	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0	447.7	455.6	461.1
162.5°	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4	438.8	446.1	451.0
165°	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6	426.4	431.9	435.9
167.5°	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0	416.7	419.9	422.7
170°	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4	409.8	412.9	414.5
172.5°	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3	404.0	406.6	407.6
175°	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6	396.4	397.9	397.9
177.5°	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3	391.9	392.5	392.5
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332020-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	14.3	14.4	14.0	13.3	14.0	14.4	14.3	14.4	16.4	14.5	14.4
90°	22.1	22.9	23.7	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7
92.5°	41.1	38.7	39.5	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4
95°	107.3	100.3	94.7	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3
97.5°	313.0	277.4	256.1	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5
100°	582.7	525.0	494.2	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9
102.5°	815.8	770.1	744.4	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7
105°	1063.5	1033.5	1008.2	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4
107.5°	1190.3	1180.2	1171.6	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2
110°	1226.9	1233.2	1231.6	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1217.5	1237.1	1243.0	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1
115°	1166.9	1201.6	1217.5	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2
117.5°	1083.7	1123.5	1146.2	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9
120°	1025.6	1069.9	1088.7	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2
122.5°	972.5	1012.3	1033.2	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8
125°	903.2	938.0	957.7	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6
127.5°	848.1	877.8	895.6	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6
130°	814.1	842.4	859.0	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5
132.5°	783.0	811.5	826.2	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6
135°	737.4	761.1	775.3	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3
137.5°	688.6	712.7	724.7	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9
140°	657.7	679.7	692.5	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5
142.5°	627.3	646.9	658.3	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8
145°	585.8	602.4	608.7	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9
147.5°	553.6	564.8	570.9	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3
150°	535.3	544.0	548.8	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7
152.5°	518.9	526.9	529.8	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8
155°	497.4	503.7	505.3	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4
157.5°	478.6	483.3	484.6	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2
160°	466.7	471.3	471.3	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0
162.5°	454.6	458.7	458.7	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4
165°	439.0	442.1	441.3	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6
167.5°	424.1	426.4	425.6	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0
170°	415.3	416.9	416.1	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4
172.5°	407.7	409.3	407.9	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3
175°	397.9	398.7	397.9	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6
177.5°	391.9	392.5	391.3	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	15.3	15.5	14.4	14.5	13.5	13.6	12.7	12.9	13.0	12.7	13.5
90°	19.0	19.7	17.4	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6
92.5°	91.6	121.4	133.6	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8
95°	379.8	468.2	416.9	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9
97.5°	776.3	725.6	531.2	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7
100°	903.2	747.7	505.3	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5
102.5°	909.6	706.6	467.4	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7
105°	861.4	634.8	420.8	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6
107.5°	777.1	571.3	391.1	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7
110°	724.0	535.3	379.8	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9



TEST NUMBER: P332020-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	677.9	511.3	373.4	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8
115°	622.2	485.5	371.1	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9
117.5°	588.5	470.4	372.5	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9
120°	570.9	463.4	375.1	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8
122.5°	556.3	459.1	379.4	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8
125°	537.7	453.2	386.1	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0
127.5°	521.3	450.4	393.6	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1
130°	512.4	448.5	398.7	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3
132.5°	504.2	447.8	402.5	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7
135°	493.4	446.9	408.2	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7
137.5°	484.1	445.1	412.0	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1
140°	478.5	444.5	414.5	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0
142.5°	473.4	443.2	416.4	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6
145°	466.7	441.3	417.7	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8
147.5°	460.0	438.4	417.7	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2
150°	455.6	435.9	417.7	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3
152.5°	450.5	432.6	415.8	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5
155°	442.9	427.2	413.7	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8
157.5°	434.4	422.2	411.0	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6
160°	428.7	418.5	409.8	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2
162.5°	423.0	414.7	407.3	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0
165°	415.3	409.0	403.4	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4
167.5°	407.9	403.3	399.7	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9
170°	403.4	399.5	397.2	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7
172.5°	399.0	396.4	395.3	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3
175°	393.9	392.4	392.4	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2
177.5°	390.6	390.0	390.6	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332020-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	14.9	15.2	17.4	18.8	21.3	23.4	23.3	22.7	22.6	21.9	21.5
90°	3.1	4.7	7.1	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7
92.5°	14.5	21.2	27.4	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4
95°	29.2	37.9	51.3	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3
97.5°	46.6	53.4	65.0	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5
100°	59.2	64.7	75.8	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9
102.5°	73.1	78.0	88.5	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7
105°	93.9	98.7	108.2	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4
107.5°	115.1	119.7	129.0	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2
110°	130.3	134.2	142.9	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.2	148.1	156.8	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1
115°	165.0	169.8	177.6	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2
117.5°	185.5	189.5	196.7	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9
120°	198.1	202.1	210.1	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2
122.5°	210.2	214.1	222.7	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8
125°	226.6	231.4	240.0	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6
127.5°	240.4	246.3	255.2	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6
130°	248.7	255.8	265.3	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5
132.5°	255.7	263.4	274.8	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6
135°	266.9	275.6	287.4	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3
137.5°	277.4	286.0	298.6	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9
140°	285.0	293.0	305.6	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5
142.5°	292.0	300.5	311.8	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8
145°	303.2	310.3	322.1	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9
147.5°	314.6	321.5	331.7	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3
150°	322.1	328.4	338.7	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7
152.5°	329.7	336.0	345.1	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8
155°	341.8	346.6	354.5	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4
157.5°	352.2	356.1	363.0	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2
160°	359.2	362.4	368.7	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0
162.5°	365.0	367.5	372.5	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4
165°	372.6	374.3	378.2	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6
167.5°	379.0	379.8	382.7	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0
170°	382.1	382.9	385.3	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4
172.5°	385.3	385.5	387.2	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3
175°	388.5	387.7	389.2	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6
177.5°	390.0	389.4	390.0	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	21.1	20.8	20.5	20.9	20.5	20.1	21.1
90°	20.5	21.3	22.9	22.1	22.9	23.7	22.9
92.5°	52.7	46.6	42.5	41.1	38.7	39.5	38.1
95°	192.7	150.8	122.4	107.3	100.3	94.7	91.6
97.5°	567.5	465.6	371.2	313.0	277.4	256.1	249.3
100°	866.9	774.6	662.4	582.7	525.0	494.2	495.0
102.5°	1002.7	948.9	877.8	815.8	770.1	744.4	726.2
105°	1105.3	1120.3	1099.8	1063.5	1033.5	1008.2	1004.3
107.5°	1092.4	1161.5	1189.6	1190.3	1180.2	1171.6	1164.4
110°	1050.1	1149.5	1204.9	1226.9	1233.2	1231.6	1230.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	994.5	1106.0	1177.0	1217.5	1237.1	1243.0	1243.3
115°	905.5	1021.7	1107.7	1166.9	1201.6	1217.5	1221.4
117.5°	830.4	934.6	1022.0	1083.7	1123.5	1146.2	1151.7
120°	788.7	883.5	963.2	1025.6	1069.9	1088.7	1093.5
122.5°	755.3	843.0	917.2	972.5	1012.3	1033.2	1039.2
125°	713.8	789.5	852.7	903.2	938.0	957.7	963.2
127.5°	677.2	745.7	803.1	848.1	877.8	895.6	900.7
130°	654.5	718.5	772.1	814.1	842.4	859.0	865.4
132.5°	633.1	692.6	743.8	783.0	811.5	826.2	830.6
135°	602.4	653.7	698.7	737.4	761.1	775.3	780.8
137.5°	572.9	617.1	656.1	688.6	712.7	724.7	728.3
140°	555.8	593.7	627.6	657.7	679.7	692.5	691.7
142.5°	539.4	572.3	601.8	627.3	646.9	658.3	657.5
145°	518.0	543.2	566.1	585.8	602.4	608.7	610.3
147.5°	502.0	522.4	538.7	553.6	564.8	570.9	571.5
150°	491.9	508.5	523.4	535.3	544.0	548.8	548.8
152.5°	482.4	497.1	509.6	518.9	526.9	529.8	529.8
155°	469.0	480.8	490.3	497.4	503.7	505.3	506.0
157.5°	455.9	465.0	472.4	478.6	483.3	484.6	484.4
160°	447.7	455.6	461.1	466.7	471.3	471.3	470.6
162.5°	438.8	446.1	451.0	454.6	458.7	458.7	458.0
165°	426.4	431.9	435.9	439.0	442.1	441.3	441.3
167.5°	416.7	419.9	422.7	424.1	426.4	425.6	425.6
170°	409.8	412.9	414.5	415.3	416.9	416.1	416.1
172.5°	404.0	406.6	407.6	407.7	409.3	407.9	407.3
175°	396.4	397.9	397.9	397.9	398.7	397.9	397.2
177.5°	391.9	392.5	392.5	391.9	392.5	391.3	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0

(END OF REPORT)