

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: P332054-840

Luminaire Tested: **S123DIP-S1165D585U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332054-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D585U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7310.6 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: Semi-Direct

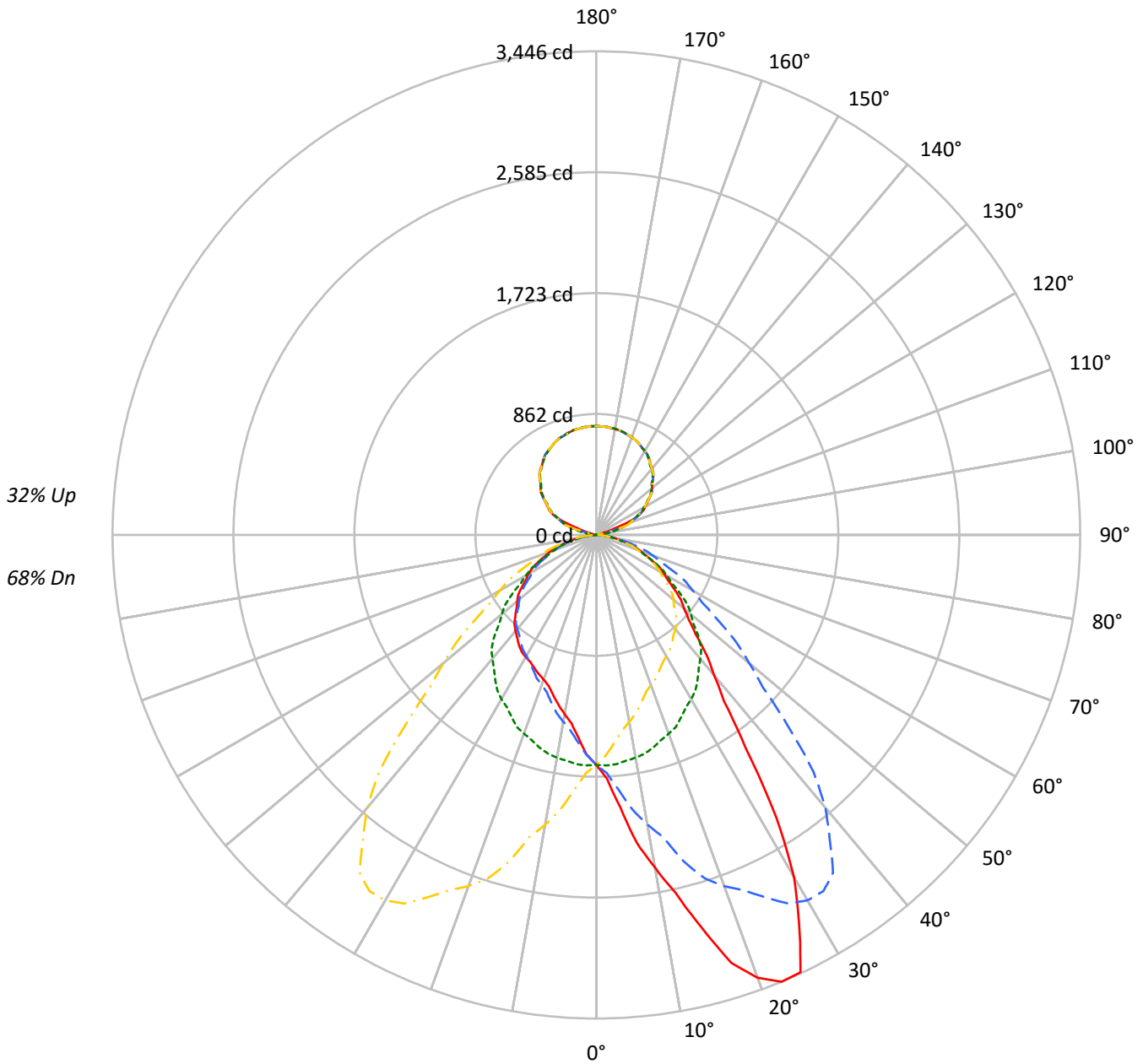
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	68																				
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	65	63	62	58																				
2	93	86	80	75	88	81	76	71	73	68	65	65	61	59	57	55	53	49																				
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42																				
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36																				
5	72	60	52	46	68	57	50	44	52	45	41	46	41	38	41	37	34	32																				
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	38	34	30	28																				
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25																				
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	27	24	22																				
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20																				
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17632	17632	17632	17632
5°	21028	17708	15693	17708
10°	26319	17618	14175	17618
15°	32282	17477	13196	17477
20°	38456	17255	12564	17255
25°	40834	16986	12423	16986
30°	34999	16789	12489	16789
35°	24341	16509	12620	16509
40°	18334	16183	12579	16183
45°	15224	15694	12420	15694
50°	13638	14699	12308	14699
55°	12748	13628	12153	13628
60°	11959	12508	12030	12508
65°	11240	11403	11645	11403
70°	10543	10140	11087	10140
75°	9441	8879	10168	8879
80°	8263	7277	8759	7277
85°	6472	5286	5891	5286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	2.2
10°-20°	517.4	7.1
20°-30°	868.4	11.9
30°-40°	983.3	13.5
40°-50°	881.8	12.1
50°-60°	711.6	9.7
60°-70°	495.9	6.8
70°-80°	260.6	3.6
80°-90°	65.9	0.9
90°-100°	28.2	0.4
100°-110°	134.3	1.8
110°-120°	322.7	4.4
120°-130°	410.9	5.6
130°-140°	439.0	6.0
140°-150°	410.5	5.6
150°-160°	331.2	4.5
160°-170°	213.7	2.9
170°-180°	73.7	1.0
0°-30°	1547.2	21.2
0°-40°	2530.6	34.6
0°-60°	4124.0	56.4
0°-90°	4946.4	67.7
90°-120°	485.2	6.6
90°-150°	1745.7	23.9
90°-180°	2364.0	32.3
0°-180°	7310.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1638	1638	1638	1638	1638	
5°	1946	1639	1452	1639	1946	202
15°	2897	1568	1184	1568	2897	836
25°	3438	1430	1046	1430	3438	1508
35°	1852	1256	960	1256	1852	1204
45°	1000	1031	816	1031	1000	791
55°	679	726	648	726	679	610
65°	441	448	457	448	441	439
75°	227	214	244	214	227	243
85°	52	43	48	43	52	62
90°	17	1	17	1	17	10
95°	22	35	22	35	22	18
105°	25	172	25	172	25	58
115°	339	322	339	322	339	313
125°	463	454	463	454	463	414
135°	571	565	571	565	571	440
145°	658	652	658	652	658	411
155°	717	718	717	718	717	331
165°	756	757	756	757	756	213
175°	772	775	772	775	772	74
180°	775	775	775	775	775	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1738.5	1737.2	1734.0	1736.6	1731.5	1724.4	1723.8	1717.5	1699.1	1697.8	1692.7
5°	1946.1	1939.7	1938.9	1938.1	1927.0	1912.0	1883.4	1881.0	1842.9	1823.8	1800.9
7.5°	2214.9	2218.3	2206.8	2196.6	2162.6	2140.2	2109.6	2070.4	2023.6	1976.1	1944.5
10°	2408.0	2434.2	2401.7	2379.4	2358.8	2319.9	2274.7	2218.3	2161.9	2096.1	2046.1
12.5°	2615.0	2627.9	2621.3	2600.4	2568.3	2509.1	2428.9	2366.9	2315.0	2205.3	2161.0
15°	2896.9	2945.4	2914.4	2843.0	2844.5	2788.1	2683.4	2568.3	2507.2	2411.2	2280.3
17.5°	3197.2	3203.3	3190.1	3130.6	3090.9	3013.4	2916.8	2806.4	2682.6	2566.5	2427.5
20°	3357.2	3352.4	3324.7	3293.8	3225.5	3165.2	3059.6	2936.6	2777.8	2663.6	2511.9
22.5°	3446.2	3438.2	3425.1	3399.1	3342.4	3277.5	3182.8	3048.4	2897.2	2739.8	2564.7
25°	3438.2	3448.5	3450.1	3442.9	3423.1	3384.3	3309.6	3202.5	3051.7	2849.3	2666.8
27.5°	3127.0	3141.7	3184.1	3221.7	3263.8	3306.6	3300.8	3247.7	3136.1	2961.3	2738.1
30°	2815.9	2784.2	2862.8	2962.0	3029.5	3148.5	3215.2	3219.1	3156.4	3006.5	2788.9
32.5°	2384.2	2419.1	2453.9	2576.0	2723.4	2857.1	2989.8	3096.7	3108.9	3009.0	2818.8
35°	1852.4	1896.1	1959.5	2023.1	2181.8	2318.3	2551.6	2754.8	2916.8	2938.2	2821.5
37.5°	1492.8	1514.3	1554.5	1618.1	1721.9	1883.9	2064.4	2321.2	2555.8	2730.3	2737.8
40°	1304.8	1311.1	1356.3	1404.8	1488.9	1622.2	1784.9	2012.0	2292.9	2536.6	2638.2
42.5°	1163.9	1177.8	1197.0	1243.5	1310.5	1410.9	1562.2	1749.7	2007.2	2287.6	2486.4
45°	1000.1	1015.9	1027.8	1058.7	1106.4	1173.9	1279.4	1450.9	1646.9	1936.5	2204.0
47.5°	891.8	893.0	901.9	925.2	957.7	1008.2	1082.9	1193.1	1373.0	1608.0	1882.6
50°	814.4	827.0	830.2	848.4	873.8	911.1	973.0	1066.7	1214.4	1420.7	1673.0
52.5°	759.7	763.6	772.4	785.6	807.8	836.9	890.5	963.8	1079.7	1255.6	1487.6
55°	679.3	679.3	688.1	698.4	711.1	737.3	773.1	827.0	915.1	1051.6	1243.6
57.5°	605.1	609.0	615.2	618.4	629.2	646.5	676.4	717.3	783.0	888.1	1040.9
60°	555.5	562.7	561.9	568.3	577.8	591.3	616.7	650.1	708.7	792.8	921.5
62.5°	512.4	511.9	511.8	519.4	528.9	541.8	558.3	587.1	637.0	711.7	821.1
65°	441.3	439.7	445.2	450.0	453.2	462.7	475.4	500.8	534.1	589.7	674.6
67.5°	378.1	373.5	376.5	378.1	383.5	390.9	402.8	418.6	445.0	489.7	553.7
70°	335.0	330.9	330.1	331.7	336.5	342.0	350.8	365.9	390.5	426.2	473.0
72.5°	290.4	287.8	287.6	291.1	293.4	297.0	303.2	317.0	336.5	363.3	407.0
75°	227.0	227.0	227.0	227.8	230.1	233.4	238.1	245.2	260.3	279.3	308.7
77.5°	170.2	170.0	169.1	168.8	172.4	173.8	174.9	181.6	190.0	202.9	224.3
80°	133.3	129.4	131.0	133.3	134.9	135.7	138.1	139.7	146.8	154.0	169.1
82.5°	99.1	95.7	96.0	99.7	100.0	100.8	103.2	105.4	108.1	114.6	122.7
85°	52.4	52.4	53.2	53.2	53.9	53.2	55.5	56.4	56.4	60.3	65.0
87.5°	22.5	21.2	21.8	22.3	21.7	22.2	22.7	23.3	23.8	24.3	24.6
90°	17.3	17.1	16.8	16.6	16.3	15.9	15.3	14.8	14.3	13.8	12.1
92.5°	19.1	19.0	18.8	18.7	18.5	18.0	17.2	16.4	15.6	14.7	13.5
95°	21.9	21.9	21.9	21.9	21.9	21.4	20.5	19.7	18.8	17.9	16.5
97.5°	23.7	23.6	23.4	23.3	23.2	22.6	21.6	20.6	19.6	18.6	27.8
100°	24.2	24.0	23.9	23.8	23.6	23.1	22.1	21.0	20.0	19.0	39.0
102.5°	24.6	24.4	24.2	23.9	23.7	25.2	28.4	31.5	34.7	37.9	59.7
105°	25.3	25.0	24.8	24.5	24.3	35.5	58.2	80.8	103.5	126.1	137.6
107.5°	79.6	96.6	113.7	130.8	147.9	164.7	181.4	197.9	214.6	231.2	229.3
110°	158.3	176.7	195.0	213.3	231.6	242.9	247.1	251.4	255.5	259.7	258.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	271.8	275.6	279.4	283.4	287.2	289.1	289.0	288.9	288.9	288.8	287.4
115°	338.7	338.2	337.7	337.1	336.6	335.8	334.5	333.2	331.9	330.6	329.4
117.5°	376.3	376.2	376.1	376.0	375.9	375.3	374.3	373.2	372.2	371.1	370.6
120°	402.0	402.0	402.0	402.0	402.0	401.5	400.5	399.5	398.5	397.4	397.1
122.5°	427.4	427.3	427.2	427.1	427.0	426.6	425.9	425.2	424.4	423.7	423.2
125°	463.1	462.8	462.6	462.3	462.1	461.8	461.5	461.3	461.0	460.8	460.3
127.5°	497.5	497.7	498.0	498.2	498.5	498.4	498.0	497.6	497.2	496.8	496.1
130°	519.6	519.8	520.1	520.3	520.6	520.4	519.9	519.4	518.9	518.4	517.9
132.5°	539.8	540.2	540.5	540.9	541.3	541.2	540.7	540.2	539.7	539.2	538.7
135°	570.8	571.2	571.6	572.0	572.3	572.3	572.0	571.6	571.2	570.8	570.3
137.5°	600.0	600.2	600.5	600.7	601.0	600.8	600.2	599.6	599.0	598.3	598.0
140°	617.4	617.7	617.9	618.2	618.4	618.3	617.8	617.3	616.8	616.3	615.9
142.5°	633.6	633.9	634.3	634.7	635.0	635.0	634.6	634.2	633.8	633.4	633.0
145°	658.3	658.3	658.3	658.3	658.3	658.2	657.9	657.7	657.4	657.2	656.9
147.5°	676.8	677.4	677.9	678.5	679.1	679.3	679.0	678.8	678.5	678.3	678.0
150°	690.6	690.9	691.4	691.8	692.2	692.2	692.0	691.7	691.5	691.2	690.9
152.5°	701.7	702.3	702.9	703.5	704.0	704.1	703.6	703.2	702.7	702.3	702.1
155°	717.1	717.9	718.6	719.4	720.1	720.2	719.6	718.9	718.3	717.7	717.5
157.5°	730.1	731.1	732.2	733.1	734.1	734.3	733.5	732.7	732.0	731.1	731.2
160°	738.4	739.3	740.2	741.1	741.9	742.0	741.2	740.5	739.7	739.0	739.1
162.5°	746.3	747.0	747.8	748.6	749.4	749.4	748.5	747.6	746.8	745.9	746.0
165°	755.7	756.6	757.5	758.4	759.3	759.2	758.2	757.2	756.2	755.1	755.3
167.5°	762.4	763.6	764.6	765.6	766.6	766.6	765.6	764.6	763.6	762.4	762.4
170°	766.6	767.7	768.7	769.7	770.7	770.7	769.7	768.7	767.7	766.6	766.6
172.5°	768.9	770.0	771.2	772.3	773.5	773.5	772.4	771.4	770.4	769.4	769.3
175°	772.3	773.5	774.5	775.5	776.5	776.6	775.7	774.8	773.9	773.0	772.8
177.5°	773.5	774.5	775.5	776.5	777.5	777.6	776.8	776.0	775.2	774.4	774.3
180°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1688.9	1683.8	1678.8	1669.9	1662.2	1651.4	1648.3	1644.5	1633.1	1623.0	1615.3
5°	1792.1	1773.0	1745.2	1719.9	1699.3	1671.5	1655.6	1638.9	1615.1	1593.7	1576.2
7.5°	1900.1	1862.6	1819.4	1772.7	1729.3	1687.4	1653.6	1623.4	1590.0	1558.4	1533.9
10°	1985.8	1931.8	1871.5	1806.4	1750.8	1696.9	1651.6	1611.9	1569.1	1531.8	1500.9
12.5°	2083.6	2003.6	1920.4	1841.3	1775.6	1700.7	1645.9	1595.5	1546.9	1502.0	1467.2
15°	2199.3	2097.7	1999.2	1890.6	1790.5	1696.9	1631.8	1568.3	1512.0	1465.9	1421.5
17.5°	2304.7	2189.6	2059.9	1927.6	1807.1	1696.0	1604.8	1533.1	1462.6	1406.2	1361.9
20°	2364.4	2233.4	2086.6	1949.2	1815.9	1692.1	1592.2	1506.4	1430.2	1370.7	1320.7
22.5°	2415.8	2262.6	2110.7	1963.9	1815.3	1681.9	1568.6	1480.4	1397.9	1339.6	1286.4
25°	2469.1	2285.8	2133.4	1961.2	1795.3	1657.2	1530.2	1430.2	1347.7	1279.4	1224.7
27.5°	2514.9	2284.2	2103.3	1918.1	1763.8	1625.5	1489.9	1382.6	1294.9	1220.8	1165.3
30°	2545.3	2287.3	2072.2	1889.0	1733.4	1590.5	1458.8	1350.8	1258.8	1183.4	1130.9
32.5°	2564.4	2285.4	2043.7	1848.4	1685.2	1558.7	1425.1	1313.3	1218.8	1144.7	1094.2
35°	2575.5	2271.5	1994.5	1764.3	1607.2	1484.2	1372.3	1256.4	1157.2	1088.1	1031.0
37.5°	2553.2	2242.1	1937.3	1683.3	1511.4	1390.2	1296.1	1197.3	1102.4	1026.4	977.1
40°	2518.3	2223.1	1892.9	1626.3	1445.3	1328.6	1248.5	1151.7	1057.9	985.7	939.7
42.5°	2451.6	2184.3	1844.0	1562.8	1376.7	1260.0	1186.2	1105.3	1016.7	948.9	902.9
45°	2289.0	2100.0	1770.7	1467.5	1275.5	1154.8	1089.7	1031.0	950.8	884.9	845.3
47.5°	2063.3	1973.3	1664.7	1367.1	1169.7	1053.7	986.0	938.8	880.2	827.0	788.9
50°	1906.4	1869.1	1592.9	1298.5	1099.2	985.7	920.7	877.8	835.8	782.5	747.6
52.5°	1725.5	1748.5	1509.1	1227.3	1027.5	915.9	854.6	820.6	782.4	738.7	708.3
55°	1470.7	1554.0	1364.3	1107.9	920.7	814.4	756.4	726.2	704.0	671.5	645.3
57.5°	1232.1	1338.2	1207.8	984.9	815.8	724.0	668.4	635.6	621.3	604.3	583.7
60°	1090.6	1195.3	1096.1	902.4	745.3	657.9	608.7	581.0	566.6	554.8	537.3
62.5°	964.1	1070.2	986.8	818.6	676.0	595.1	552.2	525.1	514.0	507.8	492.9
65°	790.5	881.8	826.2	688.1	577.0	505.5	466.7	447.7	437.3	434.9	425.5
67.5°	643.4	712.9	672.4	570.8	483.3	421.6	388.6	372.4	364.5	363.7	356.5
70°	546.8	611.9	581.0	488.9	413.5	365.1	336.5	322.2	317.5	316.7	312.8
72.5°	471.9	517.4	492.7	415.9	357.6	313.7	292.7	277.8	272.4	273.5	270.8
75°	349.2	383.3	369.1	315.9	269.0	240.4	223.0	213.5	208.7	211.2	207.9
77.5°	251.3	272.9	260.0	223.2	194.3	173.7	160.8	154.9	150.7	150.5	149.1
80°	189.7	202.4	195.2	173.0	149.3	131.8	121.4	117.4	115.1	114.3	113.5
82.5°	135.1	145.9	137.4	122.2	106.0	95.5	89.7	84.4	82.7	83.2	82.4
85°	68.3	72.2	69.1	59.5	53.2	48.4	45.2	42.8	41.3	42.1	40.5
87.5°	25.5	25.9	23.6	20.8	19.3	17.2	16.9	15.3	14.3	14.6	14.2
90°	10.5	8.8	7.2	5.7	4.4	3.1	1.8	0.6	1.8	3.1	4.4
92.5°	12.2	11.0	9.7	9.3	9.6	10.0	10.4	10.7	10.4	10.0	9.6
95°	15.0	13.6	12.2	14.1	19.4	24.6	29.9	35.1	29.9	24.6	19.4
97.5°	37.0	46.2	55.4	61.2	63.5	65.9	68.3	70.6	68.3	65.9	63.5
100°	59.0	78.9	98.9	107.6	105.0	102.5	99.9	97.4	99.9	102.5	105.0
102.5°	81.5	103.3	125.1	135.1	133.3	131.5	129.6	127.7	129.6	131.5	133.3
105°	149.2	160.7	172.2	177.2	175.8	174.5	173.1	171.7	173.1	174.5	175.8
107.5°	227.5	225.7	223.9	222.5	221.4	220.3	219.0	217.9	219.0	220.3	221.4
110°	256.9	255.5	254.2	252.9	251.9	250.9	249.8	248.8	249.8	250.9	251.9



TEST NUMBER: P332054-840

CATALOG NUMBER: S123DIP-S1165D585U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	286.0	284.6	283.2	282.0	281.0	280.1	279.2	278.3	279.2	280.1	281.0
115°	328.3	327.2	326.0	325.1	324.3	323.5	322.8	321.9	322.8	323.5	324.3
117.5°	370.0	369.4	368.8	368.0	367.1	366.2	365.2	364.3	365.2	366.2	367.1
120°	396.7	396.3	395.9	395.2	393.9	392.8	391.6	390.5	391.6	392.8	393.9
122.5°	422.7	422.2	421.7	421.0	420.1	419.1	418.2	417.3	418.2	419.1	420.1
125°	459.8	459.3	458.8	458.0	457.0	456.0	454.9	453.8	454.9	456.0	457.0
127.5°	495.5	494.8	494.2	493.4	492.4	491.4	490.4	489.4	490.4	491.4	492.4
130°	517.4	516.8	516.3	515.5	514.5	513.5	512.5	511.5	512.5	513.5	514.5
132.5°	538.3	537.9	537.5	536.7	535.7	534.7	533.7	532.7	533.7	534.7	535.7
135°	569.8	569.3	568.8	568.2	567.3	566.5	565.8	565.0	565.8	566.5	567.3
137.5°	597.7	597.4	597.2	596.5	595.6	594.6	593.7	592.7	593.7	594.6	595.6
140°	615.5	615.1	614.8	614.2	613.4	612.7	611.9	611.1	611.9	612.7	613.4
142.5°	632.6	632.2	631.8	631.3	630.5	629.8	628.9	628.1	628.9	629.8	630.5
145°	656.7	656.4	656.2	655.6	654.7	653.8	652.9	652.0	652.9	653.8	654.7
147.5°	677.7	677.5	677.2	676.8	676.2	675.7	675.1	674.5	675.1	675.7	676.2
150°	690.6	690.4	690.1	689.8	689.4	689.0	688.7	688.3	688.7	689.0	689.4
152.5°	702.0	701.8	701.7	701.5	701.3	701.0	700.9	700.7	700.9	701.0	701.3
155°	717.4	717.3	717.2	717.2	717.5	717.7	718.0	718.2	718.0	717.7	717.5
157.5°	731.4	731.5	731.6	731.7	731.7	731.7	731.8	731.8	731.8	731.7	731.7
160°	739.2	739.3	739.5	739.6	739.7	739.9	740.0	740.1	740.0	739.9	739.7
162.5°	746.2	746.3	746.4	746.6	747.0	747.3	747.6	748.0	747.6	747.3	747.0
165°	755.4	755.5	755.6	755.9	756.3	756.7	757.0	757.4	757.0	756.7	756.3
167.5°	762.4	762.4	762.4	762.8	763.3	763.8	764.3	764.8	764.3	763.8	763.3
170°	766.6	766.6	766.6	766.9	767.4	767.9	768.4	768.9	768.4	767.9	767.4
172.5°	769.2	769.1	769.0	769.2	769.8	770.4	771.1	771.7	771.1	770.4	769.8
175°	772.7	772.5	772.4	772.7	773.4	774.0	774.7	775.3	774.7	774.0	773.4
177.5°	774.2	774.1	774.0	774.2	774.7	775.2	775.7	776.2	775.7	775.2	774.7
180°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3



TEST NUMBER: P332054-840

CATALOG NUMBER: S123DIP-S1165D585U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1610.8	1606.4	1600.0	1590.5	1582.9	1570.8	1570.8	1572.8	1572.8	1572.2	1570.8
5°	1562.0	1550.0	1535.8	1519.1	1501.7	1484.2	1481.0	1474.6	1469.9	1466.7	1462.8
7.5°	1510.4	1489.2	1468.4	1445.1	1423.8	1406.2	1394.0	1383.8	1377.4	1370.4	1365.2
10°	1475.4	1449.3	1424.6	1400.1	1373.0	1351.6	1338.2	1328.6	1321.5	1315.1	1311.9
12.5°	1434.2	1404.2	1377.1	1353.7	1324.1	1302.1	1289.3	1284.8	1276.4	1263.0	1256.1
15°	1373.8	1346.0	1313.5	1277.8	1263.5	1236.6	1221.4	1214.4	1209.5	1199.2	1196.1
17.5°	1322.2	1285.9	1249.4	1222.7	1196.2	1174.3	1165.9	1157.0	1150.6	1142.3	1139.7
20°	1281.0	1248.5	1215.1	1186.6	1158.7	1135.0	1127.8	1121.5	1115.1	1111.2	1107.9
22.5°	1239.1	1206.6	1178.9	1152.3	1122.6	1107.0	1099.2	1092.3	1087.8	1085.1	1082.0
25°	1180.2	1151.7	1120.6	1096.8	1073.1	1062.7	1057.9	1054.0	1050.9	1046.8	1046.0
27.5°	1127.5	1096.4	1071.3	1049.0	1032.0	1023.4	1018.8	1016.8	1017.5	1019.0	1019.9
30°	1088.1	1059.6	1038.9	1019.9	1004.0	996.0	995.2	995.2	998.5	999.3	1000.8
32.5°	1052.0	1028.4	1007.8	989.4	977.3	971.9	974.9	974.9	977.4	979.6	982.4
35°	999.3	978.6	962.7	946.8	936.5	938.9	940.5	942.1	946.0	950.8	954.0
37.5°	948.9	931.0	914.4	902.1	897.4	901.6	905.4	908.8	913.3	917.1	920.2
40°	912.7	899.2	883.3	872.2	873.8	876.3	879.4	883.3	887.4	889.7	892.9
42.5°	879.1	864.9	852.9	843.6	845.9	848.9	850.8	852.9	857.5	861.8	863.6
45°	827.8	816.7	805.6	800.0	801.6	803.2	804.8	807.2	811.1	814.4	815.1
47.5°	770.2	762.4	755.0	749.5	752.0	751.4	753.6	758.6	759.8	761.7	766.2
50°	733.4	726.2	717.5	715.9	715.9	715.9	716.7	723.1	723.1	726.2	729.4
52.5°	692.8	688.1	682.6	679.7	678.4	678.4	681.8	685.0	686.2	690.6	693.9
55°	632.6	627.8	623.0	620.7	619.0	620.7	627.0	628.5	632.6	634.9	637.3
57.5°	569.9	566.2	562.4	561.1	560.8	562.9	566.3	571.1	572.1	579.4	583.0
60°	528.6	523.0	519.9	519.9	518.3	525.4	523.8	531.8	533.3	538.2	543.7
62.5°	486.0	478.6	477.4	477.4	479.6	481.6	483.8	487.4	491.4	497.5	501.8
65°	417.5	413.5	419.1	418.3	416.7	421.4	421.4	425.5	430.2	435.8	444.4
67.5°	352.5	350.5	350.9	350.9	353.4	356.1	358.3	361.7	367.5	373.3	379.1
70°	308.7	311.1	307.2	310.3	312.8	313.5	315.1	319.8	326.2	330.1	336.5
72.5°	266.2	266.0	266.5	267.8	270.1	271.6	273.2	278.6	285.6	288.9	294.0
75°	204.8	204.0	206.3	206.3	210.4	211.9	213.5	215.9	222.3	227.0	231.0
77.5°	149.6	150.5	150.0	152.7	151.6	151.9	156.8	159.3	159.9	169.3	171.3
80°	112.7	114.3	115.1	115.8	116.6	115.1	120.7	123.0	123.0	128.6	132.5
82.5°	81.0	81.9	84.0	84.7	84.9	86.5	86.9	88.8	90.7	93.0	98.3
85°	40.5	42.8	43.6	42.8	43.6	42.1	44.4	45.2	46.0	46.0	46.0
87.5°	13.8	14.7	14.4	15.5	15.1	16.1	16.2	15.0	15.1	17.2	14.6
90°	5.7	7.2	8.8	10.5	12.1	13.8	14.3	14.8	15.3	15.9	16.3
92.5°	9.3	9.7	11.0	12.2	13.5	14.7	15.6	16.4	17.2	18.0	18.5
95°	14.1	12.2	13.6	15.0	16.5	17.9	18.8	19.7	20.5	21.4	21.9
97.5°	61.2	55.4	46.2	37.0	27.8	18.6	19.6	20.6	21.6	22.6	23.2
100°	107.6	98.9	78.9	59.0	39.0	19.0	20.0	21.0	22.1	23.1	23.6
102.5°	135.1	125.1	103.3	81.5	59.7	37.9	34.7	31.5	28.4	25.2	23.7
105°	177.2	172.2	160.7	149.2	137.6	126.1	103.5	80.8	58.2	35.5	24.3
107.5°	222.5	223.9	225.7	227.5	229.3	231.2	214.6	197.9	181.4	164.7	147.9
110°	252.9	254.2	255.5	256.9	258.3	259.7	255.5	251.4	247.1	242.9	231.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	282.0	283.2	284.6	286.0	287.4	288.8	288.9	288.9	289.0	289.1	287.2
115°	325.1	326.0	327.2	328.3	329.4	330.6	331.9	333.2	334.5	335.8	336.6
117.5°	368.0	368.8	369.4	370.0	370.6	371.1	372.2	373.2	374.3	375.3	375.9
120°	395.2	395.9	396.3	396.7	397.1	397.4	398.5	399.5	400.5	401.5	402.0
122.5°	421.0	421.7	422.2	422.7	423.2	423.7	424.4	425.2	425.9	426.6	427.0
125°	458.0	458.8	459.3	459.8	460.3	460.8	461.0	461.3	461.5	461.8	462.1
127.5°	493.4	494.2	494.8	495.5	496.1	496.8	497.2	497.6	498.0	498.4	498.5
130°	515.5	516.3	516.8	517.4	517.9	518.4	518.9	519.4	519.9	520.4	520.6
132.5°	536.7	537.5	537.9	538.3	538.7	539.2	539.7	540.2	540.7	541.2	541.3
135°	568.2	568.8	569.3	569.8	570.3	570.8	571.2	571.6	572.0	572.3	572.3
137.5°	596.5	597.2	597.4	597.7	598.0	598.3	599.0	599.6	600.2	600.8	601.0
140°	614.2	614.8	615.1	615.5	615.9	616.3	616.8	617.3	617.8	618.3	618.4
142.5°	631.3	631.8	632.2	632.6	633.0	633.4	633.8	634.2	634.6	635.0	635.0
145°	655.6	656.2	656.4	656.7	656.9	657.2	657.4	657.7	657.9	658.2	658.3
147.5°	676.8	677.2	677.5	677.7	678.0	678.3	678.5	678.8	679.0	679.3	679.1
150°	689.8	690.1	690.4	690.6	690.9	691.2	691.5	691.7	692.0	692.2	692.2
152.5°	701.5	701.7	701.8	702.0	702.1	702.3	702.7	703.2	703.6	704.1	704.0
155°	717.2	717.2	717.3	717.4	717.5	717.7	718.3	718.9	719.6	720.2	720.1
157.5°	731.7	731.6	731.5	731.4	731.2	731.1	732.0	732.7	733.5	734.3	734.1
160°	739.6	739.5	739.3	739.2	739.1	739.0	739.7	740.5	741.2	742.0	741.9
162.5°	746.6	746.4	746.3	746.2	746.0	745.9	746.8	747.6	748.5	749.4	749.4
165°	755.9	755.6	755.5	755.4	755.3	755.1	756.2	757.2	758.2	759.2	759.3
167.5°	762.8	762.4	762.4	762.4	762.4	762.4	763.6	764.6	765.6	766.6	766.6
170°	766.9	766.6	766.6	766.6	766.6	766.6	767.7	768.7	769.7	770.7	770.7
172.5°	769.2	769.0	769.1	769.2	769.3	769.4	770.4	771.4	772.4	773.5	773.5
175°	772.7	772.4	772.5	772.7	772.8	773.0	773.9	774.8	775.7	776.6	776.5
177.5°	774.2	774.0	774.1	774.2	774.3	774.4	775.2	776.0	776.8	777.6	777.5
180°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3



TEST NUMBER: P332054-840

CATALOG NUMBER: S123DIP-S1165D585U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1566.4	1565.8	1570.2	1567.0	1570.2	1565.8	1566.4	1570.8	1572.2	1572.8	1572.8
5°	1457.9	1460.4	1452.4	1452.4	1452.4	1460.4	1457.9	1462.8	1466.7	1469.9	1474.6
7.5°	1361.5	1358.0	1358.3	1354.0	1358.3	1358.0	1361.5	1365.2	1370.4	1377.4	1383.8
10°	1302.4	1297.7	1296.1	1296.9	1296.1	1297.7	1302.4	1311.9	1315.1	1321.5	1328.6
12.5°	1253.5	1252.5	1242.1	1242.2	1242.1	1252.5	1253.5	1256.1	1263.0	1276.4	1284.8
15°	1196.1	1181.0	1179.4	1184.2	1179.4	1181.0	1196.1	1196.1	1199.2	1209.5	1214.4
17.5°	1138.4	1130.5	1130.9	1128.6	1130.9	1130.5	1138.4	1139.7	1142.3	1150.6	1157.0
20°	1107.9	1103.2	1102.4	1096.8	1102.4	1103.2	1107.9	1107.9	1111.2	1115.1	1121.5
22.5°	1080.1	1078.4	1078.9	1072.8	1078.9	1078.4	1080.1	1082.0	1085.1	1087.8	1092.3
25°	1045.3	1049.2	1046.0	1046.0	1046.0	1049.2	1045.3	1046.0	1046.8	1050.9	1054.0
27.5°	1021.8	1021.6	1020.1	1020.1	1020.1	1021.6	1021.8	1019.9	1019.0	1017.5	1016.8
30°	1004.0	1003.2	1004.8	1004.8	1004.8	1003.2	1004.0	1000.8	999.3	998.5	995.2
32.5°	986.2	987.3	987.6	988.3	987.6	987.3	986.2	982.4	979.6	977.4	974.9
35°	958.8	959.6	961.9	960.4	961.9	959.6	958.8	954.0	950.8	946.0	942.1
37.5°	921.6	925.2	924.4	925.7	924.4	925.2	921.6	920.2	917.1	913.3	908.8
40°	893.6	896.1	895.2	895.2	895.2	896.1	893.6	892.9	889.7	887.4	883.3
42.5°	865.2	866.9	864.7	863.5	864.7	866.9	865.2	863.6	861.8	857.5	852.9
45°	818.3	816.7	819.1	815.9	819.1	816.7	818.3	815.1	814.4	811.1	807.2
47.5°	765.9	767.5	768.1	770.5	768.1	767.5	765.9	766.2	761.7	759.8	758.6
50°	730.9	735.7	735.7	735.0	735.7	735.7	730.9	729.4	726.2	723.1	723.1
52.5°	696.7	698.9	702.1	702.0	702.1	698.9	696.7	693.9	690.6	686.2	685.0
55°	643.7	645.3	646.8	647.6	646.8	645.3	643.7	637.3	634.9	632.6	628.5
57.5°	588.8	588.1	591.9	593.0	591.9	588.1	588.8	583.0	579.4	572.1	571.1
60°	550.0	550.0	556.3	558.8	556.3	550.0	550.0	543.7	538.2	533.3	531.8
62.5°	508.8	511.3	517.7	514.3	517.7	511.3	508.8	501.8	497.5	491.4	487.4
65°	448.4	454.7	453.9	457.2	453.9	454.7	448.4	444.4	435.8	430.2	425.5
67.5°	385.4	389.4	395.1	395.6	395.1	389.4	385.4	379.1	373.3	367.5	361.7
70°	342.8	346.8	350.0	352.3	350.0	346.8	342.8	336.5	330.1	326.2	319.8
72.5°	301.6	303.7	311.2	307.9	311.2	303.7	301.6	294.0	288.9	285.6	278.6
75°	236.5	242.1	246.8	244.5	246.8	242.1	236.5	231.0	227.0	222.3	215.9
77.5°	174.9	180.5	182.7	180.7	182.7	180.5	174.9	171.3	169.3	159.9	159.3
80°	138.1	137.3	142.1	141.3	142.1	137.3	138.1	132.5	128.6	123.0	123.0
82.5°	101.3	100.5	102.7	103.2	102.7	100.5	101.3	98.3	93.0	90.7	88.8
85°	49.2	51.6	48.4	47.7	48.4	51.6	49.2	46.0	46.0	46.0	45.2
87.5°	14.7	14.7	14.2	13.6	14.2	14.7	14.7	14.6	17.2	15.1	15.0
90°	16.6	16.8	17.1	17.3	17.1	16.8	16.6	16.3	15.9	15.3	14.8
92.5°	18.7	18.8	19.0	19.1	19.0	18.8	18.7	18.5	18.0	17.2	16.4
95°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.4	20.5	19.7
97.5°	23.3	23.4	23.6	23.7	23.6	23.4	23.3	23.2	22.6	21.6	20.6
100°	23.8	23.9	24.0	24.2	24.0	23.9	23.8	23.6	23.1	22.1	21.0
102.5°	23.9	24.2	24.4	24.6	24.4	24.2	23.9	23.7	25.2	28.4	31.5
105°	24.5	24.8	25.0	25.3	25.0	24.8	24.5	24.3	35.5	58.2	80.8
107.5°	130.8	113.7	96.6	79.6	96.6	113.7	130.8	147.9	164.7	181.4	197.9
110°	213.3	195.0	176.7	158.3	176.7	195.0	213.3	231.6	242.9	247.1	251.4



TEST NUMBER: P332054-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	283.4	279.4	275.6	271.8	275.6	279.4	283.4	287.2	289.1	289.0	288.9
115°	337.1	337.7	338.2	338.7	338.2	337.7	337.1	336.6	335.8	334.5	333.2
117.5°	376.0	376.1	376.2	376.3	376.2	376.1	376.0	375.9	375.3	374.3	373.2
120°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	401.5	400.5	399.5
122.5°	427.1	427.2	427.3	427.4	427.3	427.2	427.1	427.0	426.6	425.9	425.2
125°	462.3	462.6	462.8	463.1	462.8	462.6	462.3	462.1	461.8	461.5	461.3
127.5°	498.2	498.0	497.7	497.5	497.7	498.0	498.2	498.5	498.4	498.0	497.6
130°	520.3	520.1	519.8	519.6	519.8	520.1	520.3	520.6	520.4	519.9	519.4
132.5°	540.9	540.5	540.2	539.8	540.2	540.5	540.9	541.3	541.2	540.7	540.2
135°	572.0	571.6	571.2	570.8	571.2	571.6	572.0	572.3	572.3	572.0	571.6
137.5°	600.7	600.5	600.2	600.0	600.2	600.5	600.7	601.0	600.8	600.2	599.6
140°	618.2	617.9	617.7	617.4	617.7	617.9	618.2	618.4	618.3	617.8	617.3
142.5°	634.7	634.3	633.9	633.6	633.9	634.3	634.7	635.0	635.0	634.6	634.2
145°	658.3	658.3	658.3	658.3	658.3	658.3	658.3	658.3	658.2	657.9	657.7
147.5°	678.5	677.9	677.4	676.8	677.4	677.9	678.5	679.1	679.3	679.0	678.8
150°	691.8	691.4	690.9	690.6	690.9	691.4	691.8	692.2	692.2	692.0	691.7
152.5°	703.5	702.9	702.3	701.7	702.3	702.9	703.5	704.0	704.1	703.6	703.2
155°	719.4	718.6	717.9	717.1	717.9	718.6	719.4	720.1	720.2	719.6	718.9
157.5°	733.1	732.2	731.1	730.1	731.1	732.2	733.1	734.1	734.3	733.5	732.7
160°	741.1	740.2	739.3	738.4	739.3	740.2	741.1	741.9	742.0	741.2	740.5
162.5°	748.6	747.8	747.0	746.3	747.0	747.8	748.6	749.4	749.4	748.5	747.6
165°	758.4	757.5	756.6	755.7	756.6	757.5	758.4	759.3	759.2	758.2	757.2
167.5°	765.6	764.6	763.6	762.4	763.6	764.6	765.6	766.6	766.6	765.6	764.6
170°	769.7	768.7	767.7	766.6	767.7	768.7	769.7	770.7	770.7	769.7	768.7
172.5°	772.3	771.2	770.0	768.9	770.0	771.2	772.3	773.5	773.5	772.4	771.4
175°	775.5	774.5	773.5	772.3	773.5	774.5	775.5	776.5	776.6	775.7	774.8
177.5°	776.5	775.5	774.5	773.5	774.5	775.5	776.5	777.5	777.6	776.8	776.0
180°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3



TEST NUMBER: P332054-840

CATALOG NUMBER: S123DIP-S1165D585U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1570.8	1570.8	1582.9	1590.5	1600.0	1606.4	1610.8	1615.3	1623.0	1633.1	1644.5
5°	1481.0	1484.2	1501.7	1519.1	1535.8	1550.0	1562.0	1576.2	1593.7	1615.1	1638.9
7.5°	1394.0	1406.2	1423.8	1445.1	1468.4	1489.2	1510.4	1533.9	1558.4	1590.0	1623.4
10°	1338.2	1351.6	1373.0	1400.1	1424.6	1449.3	1475.4	1500.9	1531.8	1569.1	1611.9
12.5°	1289.3	1302.1	1324.1	1353.7	1377.1	1404.2	1434.2	1467.2	1502.0	1546.9	1595.5
15°	1221.4	1236.6	1263.5	1277.8	1313.5	1346.0	1373.8	1421.5	1465.9	1512.0	1568.3
17.5°	1165.9	1174.3	1196.2	1222.7	1249.4	1285.9	1322.2	1361.9	1406.2	1462.6	1533.1
20°	1127.8	1135.0	1158.7	1186.6	1215.1	1248.5	1281.0	1320.7	1370.7	1430.2	1506.4
22.5°	1099.2	1107.0	1122.6	1152.3	1178.9	1206.6	1239.1	1286.4	1339.6	1397.9	1480.4
25°	1057.9	1062.7	1073.1	1096.8	1120.6	1151.7	1180.2	1224.7	1279.4	1347.7	1430.2
27.5°	1018.8	1023.4	1032.0	1049.0	1071.3	1096.4	1127.5	1165.3	1220.8	1294.9	1382.6
30°	995.2	996.0	1004.0	1019.9	1038.9	1059.6	1088.1	1130.9	1183.4	1258.8	1350.8
32.5°	974.9	971.9	977.3	989.4	1007.8	1028.4	1052.0	1094.2	1144.7	1218.8	1313.3
35°	940.5	938.9	936.5	946.8	962.7	978.6	999.3	1031.0	1088.1	1157.2	1256.4
37.5°	905.4	901.6	897.4	902.1	914.4	931.0	948.9	977.1	1026.4	1102.4	1197.3
40°	879.4	876.3	873.8	872.2	883.3	899.2	912.7	939.7	985.7	1057.9	1151.7
42.5°	850.8	848.9	845.9	843.6	852.9	864.9	879.1	902.9	948.9	1016.7	1105.3
45°	804.8	803.2	801.6	800.0	805.6	816.7	827.8	845.3	884.9	950.8	1031.0
47.5°	753.6	751.4	752.0	749.5	755.0	762.4	770.2	788.9	827.0	880.2	938.8
50°	716.7	715.9	715.9	715.9	717.5	726.2	733.4	747.6	782.5	835.8	877.8
52.5°	681.8	678.4	678.4	679.7	682.6	688.1	692.8	708.3	738.7	782.4	820.6
55°	627.0	620.7	619.0	620.7	623.0	627.8	632.6	645.3	671.5	704.0	726.2
57.5°	566.3	562.9	560.8	561.1	562.4	566.2	569.9	583.7	604.3	621.3	635.6
60°	523.8	525.4	518.3	519.9	519.9	523.0	528.6	537.3	554.8	566.6	581.0
62.5°	483.8	481.6	479.6	477.4	477.4	478.6	486.0	492.9	507.8	514.0	525.1
65°	421.4	421.4	416.7	418.3	419.1	413.5	417.5	425.5	434.9	437.3	447.7
67.5°	358.3	356.1	353.4	350.9	350.9	350.5	352.5	356.5	363.7	364.5	372.4
70°	315.1	313.5	312.8	310.3	307.2	311.1	308.7	312.8	316.7	317.5	322.2
72.5°	273.2	271.6	270.1	267.8	266.5	266.0	266.2	270.8	273.5	272.4	277.8
75°	213.5	211.9	210.4	206.3	206.3	204.0	204.8	207.9	211.2	208.7	213.5
77.5°	156.8	151.9	151.6	152.7	150.0	150.5	149.6	149.1	150.5	150.7	154.9
80°	120.7	115.1	116.6	115.8	115.1	114.3	112.7	113.5	114.3	115.1	117.4
82.5°	86.9	86.5	84.9	84.7	84.0	81.9	81.0	82.4	83.2	82.7	84.4
85°	44.4	42.1	43.6	42.8	43.6	42.8	40.5	40.5	42.1	41.3	42.8
87.5°	16.2	16.1	15.1	15.5	14.4	14.7	13.8	14.2	14.6	14.3	15.3
90°	14.3	13.8	12.1	10.5	8.8	7.2	5.7	4.4	3.1	1.8	0.6
92.5°	15.6	14.7	13.5	12.2	11.0	9.7	9.3	9.6	10.0	10.4	10.7
95°	18.8	17.9	16.5	15.0	13.6	12.2	14.1	19.4	24.6	29.9	35.1
97.5°	19.6	18.6	27.8	37.0	46.2	55.4	61.2	63.5	65.9	68.3	70.6
100°	20.0	19.0	39.0	59.0	78.9	98.9	107.6	105.0	102.5	99.9	97.4
102.5°	34.7	37.9	59.7	81.5	103.3	125.1	135.1	133.3	131.5	129.6	127.7
105°	103.5	126.1	137.6	149.2	160.7	172.2	177.2	175.8	174.5	173.1	171.7
107.5°	214.6	231.2	229.3	227.5	225.7	223.9	222.5	221.4	220.3	219.0	217.9
110°	255.5	259.7	258.3	256.9	255.5	254.2	252.9	251.9	250.9	249.8	248.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	288.9	288.8	287.4	286.0	284.6	283.2	282.0	281.0	280.1	279.2	278.3
115°	331.9	330.6	329.4	328.3	327.2	326.0	325.1	324.3	323.5	322.8	321.9
117.5°	372.2	371.1	370.6	370.0	369.4	368.8	368.0	367.1	366.2	365.2	364.3
120°	398.5	397.4	397.1	396.7	396.3	395.9	395.2	393.9	392.8	391.6	390.5
122.5°	424.4	423.7	423.2	422.7	422.2	421.7	421.0	420.1	419.1	418.2	417.3
125°	461.0	460.8	460.3	459.8	459.3	458.8	458.0	457.0	456.0	454.9	453.8
127.5°	497.2	496.8	496.1	495.5	494.8	494.2	493.4	492.4	491.4	490.4	489.4
130°	518.9	518.4	517.9	517.4	516.8	516.3	515.5	514.5	513.5	512.5	511.5
132.5°	539.7	539.2	538.7	538.3	537.9	537.5	536.7	535.7	534.7	533.7	532.7
135°	571.2	570.8	570.3	569.8	569.3	568.8	568.2	567.3	566.5	565.8	565.0
137.5°	599.0	598.3	598.0	597.7	597.4	597.2	596.5	595.6	594.6	593.7	592.7
140°	616.8	616.3	615.9	615.5	615.1	614.8	614.2	613.4	612.7	611.9	611.1
142.5°	633.8	633.4	633.0	632.6	632.2	631.8	631.3	630.5	629.8	628.9	628.1
145°	657.4	657.2	656.9	656.7	656.4	656.2	655.6	654.7	653.8	652.9	652.0
147.5°	678.5	678.3	678.0	677.7	677.5	677.2	676.8	676.2	675.7	675.1	674.5
150°	691.5	691.2	690.9	690.6	690.4	690.1	689.8	689.4	689.0	688.7	688.3
152.5°	702.7	702.3	702.1	702.0	701.8	701.7	701.5	701.3	701.0	700.9	700.7
155°	718.3	717.7	717.5	717.4	717.3	717.2	717.2	717.5	717.7	718.0	718.2
157.5°	732.0	731.1	731.2	731.4	731.5	731.6	731.7	731.7	731.7	731.8	731.8
160°	739.7	739.0	739.1	739.2	739.3	739.5	739.6	739.7	739.9	740.0	740.1
162.5°	746.8	745.9	746.0	746.2	746.3	746.4	746.6	747.0	747.3	747.6	748.0
165°	756.2	755.1	755.3	755.4	755.5	755.6	755.9	756.3	756.7	757.0	757.4
167.5°	763.6	762.4	762.4	762.4	762.4	762.4	762.8	763.3	763.8	764.3	764.8
170°	767.7	766.6	766.6	766.6	766.6	766.6	766.9	767.4	767.9	768.4	768.9
172.5°	770.4	769.4	769.3	769.2	769.1	769.0	769.2	769.8	770.4	771.1	771.7
175°	773.9	773.0	772.8	772.7	772.5	772.4	772.7	773.4	774.0	774.7	775.3
177.5°	775.2	774.4	774.3	774.2	774.1	774.0	774.2	774.7	775.2	775.7	776.2
180°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3



TEST NUMBER: P332054-840

CATALOG NUMBER: S123DIP-S1165D585U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1648.3	1651.4	1662.2	1669.9	1678.8	1683.8	1688.9	1692.7	1697.8	1699.1	1717.5
5°	1655.6	1671.5	1699.3	1719.9	1745.2	1773.0	1792.1	1800.9	1823.8	1842.9	1881.0
7.5°	1653.6	1687.4	1729.3	1772.7	1819.4	1862.6	1900.1	1944.5	1976.1	2023.6	2070.4
10°	1651.6	1696.9	1750.8	1806.4	1871.5	1931.8	1985.8	2046.1	2096.1	2161.9	2218.3
12.5°	1645.9	1700.7	1775.6	1841.3	1920.4	2003.6	2083.6	2161.0	2205.3	2315.0	2366.9
15°	1631.8	1696.9	1790.5	1890.6	1999.2	2097.7	2199.3	2280.3	2411.2	2507.2	2568.3
17.5°	1604.8	1696.0	1807.1	1927.6	2059.9	2189.6	2304.7	2427.5	2566.5	2682.6	2806.4
20°	1592.2	1692.1	1815.9	1949.2	2086.6	2233.4	2364.4	2511.9	2663.6	2777.8	2936.6
22.5°	1568.6	1681.9	1815.3	1963.9	2110.7	2262.6	2415.8	2564.7	2739.8	2897.2	3048.4
25°	1530.2	1657.2	1795.3	1961.2	2133.4	2285.8	2469.1	2666.8	2849.3	3051.7	3202.5
27.5°	1489.9	1625.5	1763.8	1918.1	2103.3	2284.2	2514.9	2738.1	2961.3	3136.1	3247.7
30°	1458.8	1590.5	1733.4	1889.0	2072.2	2287.3	2545.3	2788.9	3006.5	3156.4	3219.1
32.5°	1425.1	1558.7	1685.2	1848.4	2043.7	2285.4	2564.4	2818.8	3009.0	3108.9	3096.7
35°	1372.3	1484.2	1607.2	1764.3	1994.5	2271.5	2575.5	2821.5	2938.2	2916.8	2754.8
37.5°	1296.1	1390.2	1511.4	1683.3	1937.3	2242.1	2553.2	2737.8	2730.3	2555.8	2321.2
40°	1248.5	1328.6	1445.3	1626.3	1892.9	2223.1	2518.3	2638.2	2536.6	2292.9	2012.0
42.5°	1186.2	1260.0	1376.7	1562.8	1844.0	2184.3	2451.6	2486.4	2287.6	2007.2	1749.7
45°	1089.7	1154.8	1275.5	1467.5	1770.7	2100.0	2289.0	2204.0	1936.5	1646.9	1450.9
47.5°	986.0	1053.7	1169.7	1367.1	1664.7	1973.3	2063.3	1882.6	1608.0	1373.0	1193.1
50°	920.7	985.7	1099.2	1298.5	1592.9	1869.1	1906.4	1673.0	1420.7	1214.4	1066.7
52.5°	854.6	915.9	1027.5	1227.3	1509.1	1748.5	1725.5	1487.6	1255.6	1079.7	963.8
55°	756.4	814.4	920.7	1107.9	1364.3	1554.0	1470.7	1243.6	1051.6	915.1	827.0
57.5°	668.4	724.0	815.8	984.9	1207.8	1338.2	1232.1	1040.9	888.1	783.0	717.3
60°	608.7	657.9	745.3	902.4	1096.1	1195.3	1090.6	921.5	792.8	708.7	650.1
62.5°	552.2	595.1	676.0	818.6	986.8	1070.2	964.1	821.1	711.7	637.0	587.1
65°	466.7	505.5	577.0	688.1	826.2	881.8	790.5	674.6	589.7	534.1	500.8
67.5°	388.6	421.6	483.3	570.8	672.4	712.9	643.4	553.7	489.7	445.0	418.6
70°	336.5	365.1	413.5	488.9	581.0	611.9	546.8	473.0	426.2	390.5	365.9
72.5°	292.7	313.7	357.6	415.9	492.7	517.4	471.9	407.0	363.3	336.5	317.0
75°	223.0	240.4	269.0	315.9	369.1	383.3	349.2	308.7	279.3	260.3	245.2
77.5°	160.8	173.7	194.3	223.2	260.0	272.9	251.3	224.3	202.9	190.0	181.6
80°	121.4	131.8	149.3	173.0	195.2	202.4	189.7	169.1	154.0	146.8	139.7
82.5°	89.7	95.5	106.0	122.2	137.4	145.9	135.1	122.7	114.6	108.1	105.4
85°	45.2	48.4	53.2	59.5	69.1	72.2	68.3	65.0	60.3	56.4	56.4
87.5°	16.9	17.2	19.3	20.8	23.6	25.9	25.5	24.6	24.3	23.8	23.3
90°	1.8	3.1	4.4	5.7	7.2	8.8	10.5	12.1	13.8	14.3	14.8
92.5°	10.4	10.0	9.6	9.3	9.7	11.0	12.2	13.5	14.7	15.6	16.4
95°	29.9	24.6	19.4	14.1	12.2	13.6	15.0	16.5	17.9	18.8	19.7
97.5°	68.3	65.9	63.5	61.2	55.4	46.2	37.0	27.8	18.6	19.6	20.6
100°	99.9	102.5	105.0	107.6	98.9	78.9	59.0	39.0	19.0	20.0	21.0
102.5°	129.6	131.5	133.3	135.1	125.1	103.3	81.5	59.7	37.9	34.7	31.5
105°	173.1	174.5	175.8	177.2	172.2	160.7	149.2	137.6	126.1	103.5	80.8
107.5°	219.0	220.3	221.4	222.5	223.9	225.7	227.5	229.3	231.2	214.6	197.9
110°	249.8	250.9	251.9	252.9	254.2	255.5	256.9	258.3	259.7	255.5	251.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	279.2	280.1	281.0	282.0	283.2	284.6	286.0	287.4	288.8	288.9	288.9
115°	322.8	323.5	324.3	325.1	326.0	327.2	328.3	329.4	330.6	331.9	333.2
117.5°	365.2	366.2	367.1	368.0	368.8	369.4	370.0	370.6	371.1	372.2	373.2
120°	391.6	392.8	393.9	395.2	395.9	396.3	396.7	397.1	397.4	398.5	399.5
122.5°	418.2	419.1	420.1	421.0	421.7	422.2	422.7	423.2	423.7	424.4	425.2
125°	454.9	456.0	457.0	458.0	458.8	459.3	459.8	460.3	460.8	461.0	461.3
127.5°	490.4	491.4	492.4	493.4	494.2	494.8	495.5	496.1	496.8	497.2	497.6
130°	512.5	513.5	514.5	515.5	516.3	516.8	517.4	517.9	518.4	518.9	519.4
132.5°	533.7	534.7	535.7	536.7	537.5	537.9	538.3	538.7	539.2	539.7	540.2
135°	565.8	566.5	567.3	568.2	568.8	569.3	569.8	570.3	570.8	571.2	571.6
137.5°	593.7	594.6	595.6	596.5	597.2	597.4	597.7	598.0	598.3	599.0	599.6
140°	611.9	612.7	613.4	614.2	614.8	615.1	615.5	615.9	616.3	616.8	617.3
142.5°	628.9	629.8	630.5	631.3	631.8	632.2	632.6	633.0	633.4	633.8	634.2
145°	652.9	653.8	654.7	655.6	656.2	656.4	656.7	656.9	657.2	657.4	657.7
147.5°	675.1	675.7	676.2	676.8	677.2	677.5	677.7	678.0	678.3	678.5	678.8
150°	688.7	689.0	689.4	689.8	690.1	690.4	690.6	690.9	691.2	691.5	691.7
152.5°	700.9	701.0	701.3	701.5	701.7	701.8	702.0	702.1	702.3	702.7	703.2
155°	718.0	717.7	717.5	717.2	717.2	717.3	717.4	717.5	717.7	718.3	718.9
157.5°	731.8	731.7	731.7	731.7	731.6	731.5	731.4	731.2	731.1	732.0	732.7
160°	740.0	739.9	739.7	739.6	739.5	739.3	739.2	739.1	739.0	739.7	740.5
162.5°	747.6	747.3	747.0	746.6	746.4	746.3	746.2	746.0	745.9	746.8	747.6
165°	757.0	756.7	756.3	755.9	755.6	755.5	755.4	755.3	755.1	756.2	757.2
167.5°	764.3	763.8	763.3	762.8	762.4	762.4	762.4	762.4	762.4	763.6	764.6
170°	768.4	767.9	767.4	766.9	766.6	766.6	766.6	766.6	766.6	767.7	768.7
172.5°	771.1	770.4	769.8	769.2	769.0	769.1	769.2	769.3	769.4	770.4	771.4
175°	774.7	774.0	773.4	772.7	772.4	772.5	772.7	772.8	773.0	773.9	774.8
177.5°	775.7	775.2	774.7	774.2	774.0	774.1	774.2	774.3	774.4	775.2	776.0
180°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3	775.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1723.8	1724.4	1731.5	1736.6	1734.0	1737.2	1738.5
5°	1883.4	1912.0	1927.0	1938.1	1938.9	1939.7	1946.1
7.5°	2109.6	2140.2	2162.6	2196.6	2206.8	2218.3	2214.9
10°	2274.7	2319.9	2358.8	2379.4	2401.7	2434.2	2408.0
12.5°	2428.9	2509.1	2568.3	2600.4	2621.3	2627.9	2615.0
15°	2683.4	2788.1	2844.5	2843.0	2914.4	2945.4	2896.9
17.5°	2916.8	3013.4	3090.9	3130.6	3190.1	3203.3	3197.2
20°	3059.6	3165.2	3225.5	3293.8	3324.7	3352.4	3357.2
22.5°	3182.8	3277.5	3342.4	3399.1	3425.1	3438.2	3446.2
25°	3309.6	3384.3	3423.1	3442.9	3450.1	3448.5	3438.2
27.5°	3300.8	3306.6	3263.8	3221.7	3184.1	3141.7	3127.0
30°	3215.2	3148.5	3029.5	2962.0	2862.8	2784.2	2815.9
32.5°	2989.8	2857.1	2723.4	2576.0	2453.9	2419.1	2384.2
35°	2551.6	2318.3	2181.8	2023.1	1959.5	1896.1	1852.4
37.5°	2064.4	1883.9	1721.9	1618.1	1554.5	1514.3	1492.8
40°	1784.9	1622.2	1488.9	1404.8	1356.3	1311.1	1304.8
42.5°	1562.2	1410.9	1310.5	1243.5	1197.0	1177.8	1163.9
45°	1279.4	1173.9	1106.4	1058.7	1027.8	1015.9	1000.1
47.5°	1082.9	1008.2	957.7	925.2	901.9	893.0	891.8
50°	973.0	911.1	873.8	848.4	830.2	827.0	814.4
52.5°	890.5	836.9	807.8	785.6	772.4	763.6	759.7
55°	773.1	737.3	711.1	698.4	688.1	679.3	679.3
57.5°	676.4	646.5	629.2	618.4	615.2	609.0	605.1
60°	616.7	591.3	577.8	568.3	561.9	562.7	555.5
62.5°	558.3	541.8	528.9	519.4	511.8	511.9	512.4
65°	475.4	462.7	453.2	450.0	445.2	439.7	441.3
67.5°	402.8	390.9	383.5	378.1	376.5	373.5	378.1
70°	350.8	342.0	336.5	331.7	330.1	330.9	335.0
72.5°	303.2	297.0	293.4	291.1	287.6	287.8	290.4
75°	238.1	233.4	230.1	227.8	227.0	227.0	227.0
77.5°	174.9	173.8	172.4	168.8	169.1	170.0	170.2
80°	138.1	135.7	134.9	133.3	131.0	129.4	133.3
82.5°	103.2	100.8	100.0	99.7	96.0	95.7	99.1
85°	55.5	53.2	53.9	53.2	53.2	52.4	52.4
87.5°	22.7	22.2	21.7	22.3	21.8	21.2	22.5
90°	15.3	15.9	16.3	16.6	16.8	17.1	17.3
92.5°	17.2	18.0	18.5	18.7	18.8	19.0	19.1
95°	20.5	21.4	21.9	21.9	21.9	21.9	21.9
97.5°	21.6	22.6	23.2	23.3	23.4	23.6	23.7
100°	22.1	23.1	23.6	23.8	23.9	24.0	24.2
102.5°	28.4	25.2	23.7	23.9	24.2	24.4	24.6
105°	58.2	35.5	24.3	24.5	24.8	25.0	25.3
107.5°	181.4	164.7	147.9	130.8	113.7	96.6	79.6
110°	247.1	242.9	231.6	213.3	195.0	176.7	158.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	289.0	289.1	287.2	283.4	279.4	275.6	271.8
115°	334.5	335.8	336.6	337.1	337.7	338.2	338.7
117.5°	374.3	375.3	375.9	376.0	376.1	376.2	376.3
120°	400.5	401.5	402.0	402.0	402.0	402.0	402.0
122.5°	425.9	426.6	427.0	427.1	427.2	427.3	427.4
125°	461.5	461.8	462.1	462.3	462.6	462.8	463.1
127.5°	498.0	498.4	498.5	498.2	498.0	497.7	497.5
130°	519.9	520.4	520.6	520.3	520.1	519.8	519.6
132.5°	540.7	541.2	541.3	540.9	540.5	540.2	539.8
135°	572.0	572.3	572.3	572.0	571.6	571.2	570.8
137.5°	600.2	600.8	601.0	600.7	600.5	600.2	600.0
140°	617.8	618.3	618.4	618.2	617.9	617.7	617.4
142.5°	634.6	635.0	635.0	634.7	634.3	633.9	633.6
145°	657.9	658.2	658.3	658.3	658.3	658.3	658.3
147.5°	679.0	679.3	679.1	678.5	677.9	677.4	676.8
150°	692.0	692.2	692.2	691.8	691.4	690.9	690.6
152.5°	703.6	704.1	704.0	703.5	702.9	702.3	701.7
155°	719.6	720.2	720.1	719.4	718.6	717.9	717.1
157.5°	733.5	734.3	734.1	733.1	732.2	731.1	730.1
160°	741.2	742.0	741.9	741.1	740.2	739.3	738.4
162.5°	748.5	749.4	749.4	748.6	747.8	747.0	746.3
165°	758.2	759.2	759.3	758.4	757.5	756.6	755.7
167.5°	765.6	766.6	766.6	765.6	764.6	763.6	762.4
170°	769.7	770.7	770.7	769.7	768.7	767.7	766.6
172.5°	772.4	773.5	773.5	772.3	771.2	770.0	768.9
175°	775.7	776.6	776.5	775.5	774.5	773.5	772.3
177.5°	776.8	777.6	777.5	776.5	775.5	774.5	773.5
180°	775.3	775.3	775.3	775.3	775.3	775.3	775.3

(END OF REPORT)