

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: P332046-830

Luminaire Tested: **S123DIP-S1165D365U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332046-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1165D365U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5790.7 lumens  
Efficiency: N/A  
Efficacy: 116.3 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

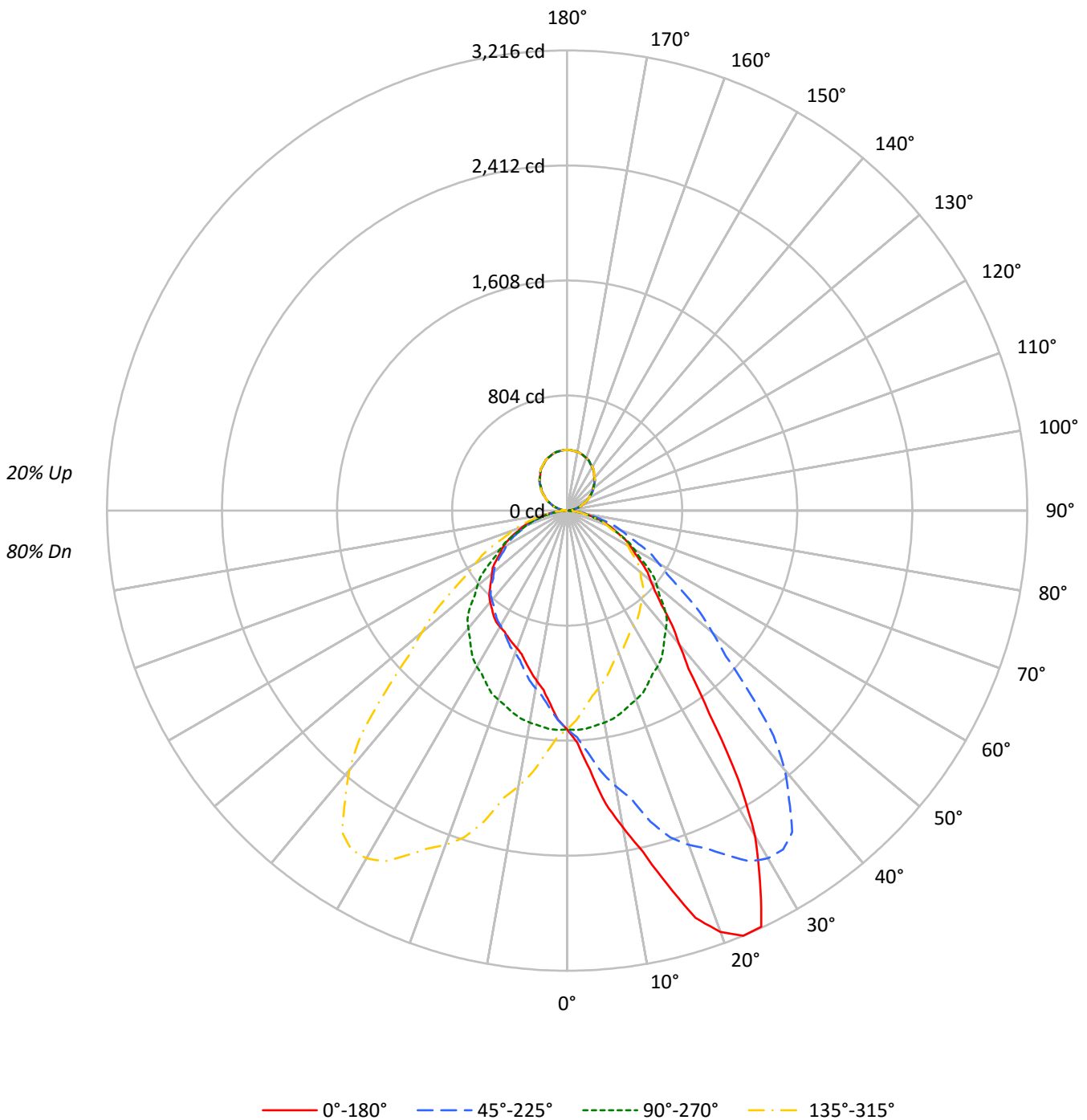
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80																				
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68																				
2	96	88	82	77	91	85	79	74	78	74	70	72	68	65	66	63	61	58																				
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49																				
4	81	69	61	55	77	67	59	54	62	56	51	57	52	48	53	49	45	43																				
5	74	62	54	48	71	60	52	46	56	49	44	52	46	42	48	43	40	37																				
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	43	39	35	33																				
7	64	51	43	37	61	49	41	36	46	39	34	43	37	33	40	35	31	29																				
8	59	46	38	33	56	45	37	32	42	35	31	39	34	29	37	32	28	26																				
9	55	42	35	29	53	41	34	29	39	32	28	36	31	27	34	29	25	23																				
10	52	39	32	27	49	38	31	26	36	29	25	33	28	24	31	27	23	21																				

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

	0°	90°	180°	270°
0°	16457	16457	16457	16457
5°	19626	16528	14647	16528
10°	24565	16444	13230	16444
15°	30130	16312	12316	16312
20°	35892	16105	11726	16105
25°	38112	15853	11595	15853
30°	32666	15669	11656	15669
35°	22718	15408	11779	15408
40°	17113	15104	11741	15104
45°	14209	14647	11592	14647
50°	12728	13720	11488	13720
55°	11898	12720	11344	12720
60°	11162	11672	11227	11672
65°	10491	10641	10868	10641
70°	9838	9467	10351	9467
75°	8813	8289	9491	8289
80°	7711	6794	8176	6794
85°	6039	4940	5496	4940



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	2.6
10°-20°	482.9	8.3
20°-30°	810.5	14.0
30°-40°	917.8	15.8
40°-50°	823.0	14.2
50°-60°	664.2	11.5
60°-70°	462.8	8.0
70°-80°	243.3	4.2
80°-90°	60.8	1.0
90°-100°	27.6	0.5
100°-110°	82.7	1.4
110°-120°	140.6	2.4
120°-130°	185.0	3.2
130°-140°	207.9	3.6
140°-150°	204.4	3.5
150°-160°	172.0	3.0
160°-170°	114.5	2.0
170°-180°	40.1	0.7
0°-30°	1444.1	24.9
0°-40°	2361.9	40.8
0°-60°	3849.1	66.5
0°-90°	4615.9	79.7
90°-120°	250.9	4.3
90°-150°	848.1	14.6
90°-180°	1175.0	20.3
0°-180°	5790.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1529	1529	1529	1529	1529	
5°	1816	1530	1356	1530	1816	188
15°	2704	1464	1105	1464	2704	781
25°	3209	1335	976	1335	3209	1407
35°	1729	1173	896	1173	1729	1123
45°	933	962	762	962	933	739
55°	634	678	604	678	634	569
65°	412	418	427	418	412	410
75°	212	199	228	199	212	227
85°	49	40	44	40	49	58
90°	10	0	10	0	10	7
95°	26	20	26	20	26	27
105°	79	75	79	75	79	84
115°	142	142	142	142	142	141
125°	205	207	205	207	205	183
135°	268	269	268	269	268	206
145°	326	326	326	326	326	204
155°	373	373	373	373	373	172
165°	405	407	405	407	405	114
175°	421	423	421	423	421	40
180°	424	424	424	424	424	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1622.6	1621.4	1618.4	1620.8	1616.1	1609.5	1608.9	1603.0	1585.8	1584.6	1579.9
5°	1816.4	1810.4	1809.7	1808.9	1798.6	1784.5	1757.8	1755.6	1720.0	1702.2	1680.8
7.5°	2067.3	2070.4	2059.6	2050.1	2018.5	1997.5	1969.0	1932.4	1888.7	1844.4	1814.9
10°	2247.5	2271.9	2241.6	2220.8	2201.6	2165.2	2123.1	2070.4	2017.8	1956.3	1909.7
12.5°	2440.7	2452.7	2446.6	2427.0	2397.1	2341.8	2267.0	2209.1	2160.7	2058.3	2016.9
15°	2703.8	2749.0	2720.1	2653.4	2654.9	2602.3	2504.5	2397.1	2340.1	2250.4	2128.3
17.5°	2984.1	2989.7	2977.4	2921.9	2884.8	2812.5	2722.3	2619.3	2503.8	2395.4	2265.7
20°	3133.4	3129.0	3103.0	3074.2	3010.5	2954.2	2855.6	2740.8	2592.7	2486.1	2344.5
22.5°	3216.4	3209.0	3196.7	3172.5	3119.5	3059.0	2970.6	2845.2	2704.1	2557.1	2393.7
25°	3209.0	3218.6	3220.1	3213.4	3194.9	3158.6	3089.0	2989.0	2848.3	2659.4	2489.0
27.5°	2918.6	2932.2	2971.8	3006.9	3046.2	3086.2	3080.8	3031.2	2927.1	2763.9	2555.6
30°	2628.2	2598.6	2671.9	2764.6	2827.5	2938.6	3000.9	3004.5	2946.0	2806.0	2603.0
32.5°	2225.2	2257.9	2290.3	2404.2	2541.8	2666.6	2790.5	2890.2	2901.6	2808.4	2630.9
35°	1728.9	1769.7	1828.9	1888.2	2036.4	2163.8	2381.5	2571.2	2722.3	2742.3	2633.4
37.5°	1393.3	1413.3	1450.9	1510.2	1607.1	1758.3	1926.7	2166.4	2385.4	2548.3	2555.3
40°	1217.9	1223.7	1265.9	1311.2	1389.7	1514.1	1665.9	1877.8	2140.0	2367.5	2462.3
42.5°	1086.3	1099.3	1117.2	1160.6	1223.1	1316.8	1458.0	1633.0	1873.4	2135.1	2320.6
45°	933.4	948.2	959.3	988.2	1032.6	1095.6	1194.1	1354.2	1537.1	1807.4	2057.1
47.5°	832.4	833.5	841.8	863.6	893.8	941.0	1010.7	1113.5	1281.5	1500.8	1757.1
50°	760.1	771.8	774.9	791.8	815.6	850.4	908.1	995.6	1133.4	1326.0	1561.5
52.5°	709.1	712.7	721.0	733.2	753.9	781.1	831.1	899.6	1007.8	1171.9	1388.5
55°	634.0	634.0	642.2	651.9	663.7	688.2	721.5	771.8	854.1	981.5	1160.7
57.5°	564.8	568.4	574.2	577.2	587.3	603.4	631.3	669.5	730.8	828.9	971.5
60°	518.5	525.2	524.4	530.4	539.3	551.9	575.6	606.7	661.5	740.0	860.1
62.5°	478.2	477.8	477.7	484.7	493.6	505.7	521.0	548.0	594.6	664.2	766.4
65°	411.9	410.4	415.6	420.0	423.0	431.9	443.7	467.4	498.5	550.4	629.6
67.5°	352.9	348.6	351.4	352.9	358.0	364.9	376.0	390.7	415.4	457.0	516.8
70°	312.6	308.9	308.1	309.6	314.1	319.2	327.4	341.5	364.5	397.8	441.5
72.5°	271.1	268.6	268.4	271.7	273.8	277.2	283.0	295.9	314.1	339.1	379.8
75°	211.9	211.9	211.9	212.6	214.8	217.8	222.3	228.8	243.0	260.7	288.1
77.5°	158.8	158.6	157.8	157.6	160.9	162.2	163.2	169.5	177.3	189.4	209.3
80°	124.4	120.7	122.2	124.4	125.9	126.7	128.9	130.4	137.0	143.7	157.8
82.5°	92.5	89.4	89.6	93.0	93.3	94.1	96.3	98.4	100.9	107.0	114.5
85°	48.9	48.9	49.7	49.7	50.3	49.7	51.8	52.6	52.6	56.3	60.7
87.5°	19.8	18.6	19.1	19.7	19.0	19.6	20.2	20.6	21.2	21.8	22.1
90°	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6	8.3	8.0	7.1
92.5°	13.5	13.6	13.7	13.8	13.9	13.8	13.5	13.3	13.0	12.8	12.3
95°	26.0	26.0	26.0	26.0	26.0	25.8	25.5	25.3	25.0	24.7	24.0
97.5°	40.0	40.0	40.1	40.1	40.1	40.0	39.6	39.2	38.9	38.5	38.2
100°	50.6	50.5	50.3	50.1	50.0	49.9	49.7	49.4	49.2	48.9	48.6
102.5°	61.5	61.5	61.6	61.6	61.6	61.5	61.4	61.2	60.9	60.7	60.2
105°	79.3	79.2	79.0	78.8	78.7	78.6	78.6	78.6	78.6	78.6	77.9
107.5°	97.7	97.8	97.9	98.0	98.1	98.0	97.7	97.6	97.3	97.1	96.8
110°	110.3	110.4	110.6	110.7	110.8	110.7	110.5	110.2	109.9	109.6	109.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	123.6	123.6	123.7	123.7	123.7	123.6	123.2	122.8	122.4	122.2	122.1
115°	141.9	141.9	142.0	142.1	142.2	142.2	142.1	142.0	141.9	141.9	142.0
117.5°	160.5	160.7	160.9	161.1	161.3	161.5	161.5	161.5	161.5	161.5	161.6
120°	173.5	173.7	173.8	174.0	174.1	174.3	174.3	174.4	174.5	174.6	174.9
122.5°	186.1	186.2	186.4	186.7	186.9	187.1	187.3	187.5	187.7	187.8	188.0
125°	204.8	205.1	205.5	205.8	206.0	206.3	206.6	206.9	207.2	207.5	207.6
127.5°	223.6	223.9	224.2	224.6	224.9	225.3	225.7	226.1	226.6	227.0	227.2
130°	235.8	236.4	236.9	237.4	237.9	238.3	238.6	238.9	239.2	239.5	239.7
132.5°	248.6	249.0	249.4	249.8	250.2	250.6	250.9	251.3	251.7	252.0	252.1
135°	268.4	268.6	268.7	268.9	269.1	269.3	269.6	269.8	270.1	270.5	270.5
137.5°	286.0	286.3	286.5	286.8	287.1	287.4	287.8	288.0	288.3	288.6	288.4
140°	297.5	297.9	298.5	299.0	299.5	299.8	299.9	299.9	300.0	300.1	300.0
142.5°	309.2	309.5	310.0	310.4	310.8	311.0	311.0	311.1	311.2	311.3	311.1
145°	326.1	326.4	326.7	327.0	327.3	327.4	327.5	327.6	327.7	327.7	327.5
147.5°	341.1	341.6	342.0	342.5	342.9	343.2	343.2	343.2	343.2	343.2	342.9
150°	350.7	351.2	351.7	352.0	352.5	352.7	352.7	352.7	352.7	352.7	352.6
152.5°	360.1	360.4	360.8	361.2	361.6	361.7	361.7	361.5	361.4	361.3	361.2
155°	372.7	373.2	373.7	374.3	374.8	374.9	374.6	374.3	374.0	373.7	373.6
157.5°	384.3	384.7	385.1	385.5	385.9	386.0	385.7	385.3	385.0	384.7	384.7
160°	391.7	392.0	392.3	392.6	392.9	392.9	392.5	392.1	391.7	391.3	391.3
162.5°	397.3	397.8	398.2	398.7	399.2	399.3	398.9	398.5	398.1	397.8	397.8
165°	405.4	405.9	406.4	406.9	407.5	407.5	407.0	406.6	406.1	405.7	405.7
167.5°	412.3	412.6	413.1	413.6	414.1	414.1	413.6	413.1	412.6	412.3	412.2
170°	415.7	416.2	416.7	417.3	417.7	417.7	417.3	416.7	416.2	415.7	415.7
172.5°	418.4	418.9	419.4	419.9	420.5	420.5	420.0	419.5	419.1	418.6	418.6
175°	421.3	421.9	422.4	422.9	423.4	423.5	423.0	422.5	422.2	421.7	421.7
177.5°	422.9	423.4	423.8	424.2	424.6	424.6	424.2	424.0	423.6	423.2	423.2
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1576.3	1571.6	1566.9	1558.6	1551.4	1541.3	1538.4	1534.8	1524.2	1514.8	1507.6
5°	1672.6	1654.8	1628.9	1605.2	1586.0	1560.1	1545.2	1529.7	1507.4	1487.4	1471.1
7.5°	1773.4	1738.4	1698.1	1654.5	1614.0	1574.9	1543.3	1515.1	1484.0	1454.5	1431.6
10°	1853.4	1803.0	1746.7	1686.0	1634.1	1583.8	1541.5	1504.5	1464.5	1429.6	1400.8
12.5°	1944.7	1870.0	1792.3	1718.5	1657.3	1587.3	1536.2	1489.1	1443.8	1401.8	1369.4
15°	2052.7	1957.8	1866.0	1764.5	1671.1	1583.8	1523.1	1463.8	1411.2	1368.2	1326.7
17.5°	2151.1	2043.6	1922.6	1799.1	1686.6	1582.9	1497.8	1430.9	1365.1	1312.5	1271.1
20°	2206.8	2084.5	1947.5	1819.3	1694.9	1579.3	1486.0	1406.0	1334.8	1279.3	1232.7
22.5°	2254.8	2111.8	1970.0	1833.0	1694.3	1569.8	1464.1	1381.7	1304.7	1250.3	1200.6
25°	2304.5	2133.4	1991.2	1830.4	1675.7	1546.7	1428.2	1334.8	1257.8	1194.1	1143.0
27.5°	2347.2	2131.9	1963.1	1790.3	1646.2	1517.1	1390.5	1290.4	1208.6	1139.4	1087.6
30°	2375.6	2134.9	1934.1	1763.0	1617.9	1484.5	1361.5	1260.7	1174.9	1104.5	1055.6
32.5°	2393.4	2133.1	1907.4	1725.1	1572.8	1454.8	1330.1	1225.8	1137.6	1068.4	1021.2
35°	2403.8	2120.1	1861.5	1646.7	1500.1	1385.3	1280.8	1172.6	1080.1	1015.6	962.2
37.5°	2383.0	2092.6	1808.2	1571.1	1410.6	1297.5	1209.7	1117.5	1028.9	958.0	912.0
40°	2350.4	2074.9	1766.7	1517.9	1349.0	1240.0	1165.3	1074.9	987.4	920.0	877.0
42.5°	2288.2	2038.7	1721.1	1458.6	1285.0	1176.0	1107.1	1031.6	949.0	885.6	842.7
45°	2136.4	1960.0	1652.7	1369.7	1190.4	1077.8	1017.1	962.2	887.4	826.0	788.9
47.5°	1925.7	1841.7	1553.7	1275.9	1091.7	983.4	920.3	876.2	821.5	771.8	736.3
50°	1779.3	1744.5	1486.7	1211.9	1026.0	920.0	859.3	819.3	780.0	730.4	697.8
52.5°	1610.4	1631.9	1408.5	1145.5	959.0	854.9	797.7	765.9	730.3	689.5	661.1
55°	1372.6	1450.4	1273.4	1034.1	859.3	760.1	706.0	677.8	657.0	626.7	602.3
57.5°	1150.0	1249.0	1127.3	919.3	761.4	675.7	623.9	593.2	579.9	564.0	544.8
60°	1017.9	1115.6	1023.0	842.3	695.6	614.1	568.2	542.2	528.9	517.8	501.5
62.5°	899.8	998.8	921.1	764.0	630.9	555.4	515.4	490.1	479.8	473.9	460.1
65°	737.8	823.0	771.1	642.2	538.6	471.8	435.5	417.8	408.1	406.0	397.1
67.5°	600.5	665.3	627.5	532.7	451.1	393.5	362.7	347.6	340.2	339.4	332.7
70°	510.4	571.1	542.2	456.3	386.0	340.7	314.1	300.8	296.3	295.6	291.9
72.5°	440.5	482.9	459.9	388.1	333.8	292.8	273.1	259.3	254.2	255.2	252.8
75°	325.9	357.8	344.5	294.8	251.1	224.4	208.1	199.3	194.8	197.1	194.1
77.5°	234.5	254.7	242.7	208.3	181.3	162.1	150.1	144.6	140.6	140.4	139.1
80°	177.0	188.9	182.2	161.5	139.3	123.0	113.3	109.6	107.4	106.7	105.9
82.5°	126.1	136.2	128.3	114.0	99.0	89.2	83.7	78.8	77.2	77.7	76.9
85°	63.7	67.4	64.5	55.5	49.7	45.1	42.2	40.0	38.5	39.3	37.8
87.5°	23.2	23.6	21.6	19.0	17.7	15.7	15.6	14.3	13.3	13.4	12.9
90°	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4	1.0	1.8	2.5
92.5°	11.7	11.1	10.6	10.1	9.6	9.0	8.6	8.1	8.6	9.0	9.6
95°	23.5	22.9	22.2	21.7	21.2	20.6	20.2	19.7	20.2	20.6	21.2
97.5°	37.7	37.3	36.9	36.5	36.1	35.7	35.3	34.9	35.3	35.7	36.1
100°	48.3	47.9	47.5	47.0	46.7	46.2	45.7	45.3	45.7	46.2	46.7
102.5°	59.8	59.2	58.7	58.3	58.1	57.8	57.6	57.3	57.6	57.8	58.1
105°	77.3	76.6	76.0	75.5	75.4	75.2	75.1	74.9	75.1	75.2	75.4
107.5°	96.5	96.2	96.0	95.9	95.8	95.7	95.6	95.5	95.6	95.7	95.8
110°	109.3	109.1	109.0	108.9	108.7	108.6	108.4	108.3	108.4	108.6	108.7





TEST NUMBER: P332046-830

CATALOG NUMBER: S123DIP-S1165D365U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	122.1	122.1	122.0	122.0	121.9	121.8	121.7	121.6	121.7	121.8	121.9
115°	142.2	142.3	142.5	142.4	142.2	142.0	141.8	141.6	141.8	142.0	142.2
117.5°	161.8	162.0	162.2	162.3	162.1	162.0	161.8	161.6	161.8	162.0	162.1
120°	175.3	175.7	176.0	176.0	175.5	175.1	174.7	174.2	174.7	175.1	175.5
122.5°	188.2	188.4	188.6	188.6	188.2	187.9	187.6	187.3	187.6	187.9	188.2
125°	207.8	207.9	208.1	208.1	207.8	207.6	207.4	207.2	207.4	207.6	207.8
127.5°	227.2	227.4	227.6	227.4	227.0	226.5	226.0	225.6	226.0	226.5	227.0
130°	240.0	240.2	240.3	240.2	239.6	239.0	238.4	237.8	238.4	239.0	239.6
132.5°	252.3	252.5	252.7	252.4	251.8	251.3	250.7	250.1	250.7	251.3	251.8
135°	270.6	270.7	270.8	270.6	270.1	269.7	269.3	268.8	269.3	269.7	270.1
137.5°	288.2	288.0	287.9	287.6	287.2	286.8	286.5	286.2	286.5	286.8	287.2
140°	299.9	299.9	299.8	299.6	299.3	298.9	298.5	298.1	298.5	298.9	299.3
142.5°	311.0	310.9	310.8	310.5	310.2	309.8	309.4	309.1	309.4	309.8	310.2
145°	327.3	327.1	326.9	326.7	326.5	326.4	326.2	326.1	326.2	326.4	326.5
147.5°	342.7	342.5	342.3	342.0	341.9	341.6	341.3	341.0	341.3	341.6	341.9
150°	352.4	352.3	352.1	352.0	351.9	351.7	351.6	351.4	351.6	351.7	351.9
152.5°	361.1	361.0	360.9	360.8	360.5	360.3	360.1	360.0	360.1	360.3	360.5
155°	373.5	373.5	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
157.5°	384.6	384.6	384.5	384.5	384.6	384.7	384.7	384.8	384.7	384.7	384.6
160°	391.3	391.3	391.3	391.4	391.6	391.7	391.9	392.0	391.9	391.7	391.6
162.5°	397.7	397.6	397.6	397.6	397.8	398.0	398.2	398.4	398.2	398.0	397.8
165°	405.7	405.7	405.7	405.8	406.0	406.2	406.5	406.7	406.5	406.2	406.0
167.5°	412.1	412.1	412.0	412.1	412.4	412.7	413.0	413.3	413.0	412.7	412.4
170°	415.7	415.7	415.7	415.8	416.1	416.4	416.7	417.0	416.7	416.4	416.1
172.5°	418.6	418.6	418.6	418.8	419.1	419.3	419.6	420.0	419.6	419.3	419.1
175°	421.7	421.7	421.7	421.9	422.2	422.4	422.7	423.0	422.7	422.4	422.2
177.5°	423.2	423.2	423.2	423.3	423.6	423.8	424.0	424.2	424.0	423.8	423.6
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332046-830

CATALOG NUMBER: S123DIP-S1165D365U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1503.4	1499.3	1493.4	1484.5	1477.3	1466.1	1466.1	1467.9	1467.9	1467.4	1466.1
5°	1457.8	1446.7	1433.4	1417.9	1401.6	1385.3	1382.2	1376.3	1371.9	1368.9	1365.3
7.5°	1409.7	1390.0	1370.6	1348.8	1328.9	1312.5	1301.1	1291.6	1285.5	1279.0	1274.2
10°	1377.1	1352.6	1329.6	1306.7	1281.5	1261.5	1249.0	1240.0	1233.4	1227.5	1224.5
12.5°	1338.6	1310.6	1285.3	1263.5	1235.9	1215.3	1203.3	1199.1	1191.3	1178.8	1172.3
15°	1282.2	1256.3	1226.0	1192.6	1179.3	1154.1	1140.0	1133.4	1128.9	1119.3	1116.3
17.5°	1234.1	1200.1	1166.1	1141.2	1116.4	1096.0	1088.2	1079.9	1073.9	1066.1	1063.8
20°	1195.6	1165.3	1134.1	1107.5	1081.5	1059.3	1052.6	1046.7	1040.8	1037.1	1034.1
22.5°	1156.5	1126.1	1100.3	1075.4	1047.7	1033.2	1026.0	1019.5	1015.3	1012.8	1009.8
25°	1101.5	1074.9	1045.9	1023.7	1001.5	991.8	987.4	983.7	980.8	977.0	976.3
27.5°	1052.3	1023.3	999.8	979.1	963.2	955.2	950.8	949.0	949.7	951.0	951.9
30°	1015.6	988.9	969.7	951.9	937.1	929.6	928.9	928.9	931.9	932.6	934.1
32.5°	981.8	959.9	940.7	923.4	912.2	907.1	909.9	909.9	912.3	914.3	916.9
35°	932.6	913.3	898.5	883.7	874.1	876.3	877.8	879.3	883.0	887.4	890.4
37.5°	885.6	868.9	853.5	842.0	837.5	841.5	845.1	848.2	852.4	855.9	858.8
40°	851.9	839.2	824.4	814.1	815.6	817.8	820.8	824.4	828.2	830.4	833.4
42.5°	820.5	807.3	796.1	787.4	789.5	792.3	794.1	796.1	800.3	804.4	806.1
45°	772.6	762.2	751.9	746.7	748.2	749.7	751.1	753.4	757.1	760.1	760.7
47.5°	718.9	711.6	704.6	699.6	701.9	701.3	703.3	708.0	709.2	711.0	715.1
50°	684.5	677.8	669.7	668.2	668.2	668.2	668.9	674.9	674.9	677.8	680.8
52.5°	646.6	642.2	637.1	634.4	633.2	633.2	636.3	639.3	640.5	644.6	647.6
55°	590.4	586.0	581.5	579.3	577.8	579.3	585.2	586.6	590.4	592.6	594.8
57.5°	531.9	528.5	524.9	523.7	523.4	525.4	528.6	533.0	534.0	540.7	544.1
60°	493.3	488.1	485.2	485.2	483.7	490.4	488.9	496.3	497.8	502.3	507.5
62.5°	453.6	446.7	445.5	445.5	447.6	449.5	451.6	454.9	458.6	464.3	468.3
65°	389.6	386.0	391.2	390.4	388.9	393.3	393.3	397.1	401.5	406.7	414.8
67.5°	329.0	327.2	327.5	327.5	329.8	332.3	334.4	337.6	343.0	348.5	353.8
70°	288.1	290.4	286.7	289.6	291.9	292.6	294.1	298.5	304.4	308.1	314.1
72.5°	248.5	248.3	248.7	250.0	252.1	253.4	255.0	260.0	266.6	269.7	274.4
75°	191.1	190.4	192.6	192.6	196.3	197.7	199.3	201.5	207.5	211.9	215.6
77.5°	139.6	140.4	140.0	142.5	141.5	141.8	146.4	148.6	149.2	158.0	159.9
80°	105.2	106.7	107.4	108.1	108.9	107.4	112.6	114.8	114.8	120.0	123.7
82.5°	75.6	76.4	78.4	79.1	79.3	80.8	81.2	82.8	84.6	86.8	91.7
85°	37.8	40.0	40.7	40.0	40.7	39.3	41.5	42.2	43.0	43.0	43.0
87.5°	12.5	13.3	12.9	13.7	13.3	14.0	14.1	13.0	13.0	14.9	12.5
90°	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6	8.9	9.1	9.4
92.5°	10.1	10.6	11.1	11.7	12.3	12.8	13.0	13.3	13.5	13.8	13.9
95°	21.7	22.2	22.9	23.5	24.0	24.7	25.0	25.3	25.5	25.8	26.0
97.5°	36.5	36.9	37.3	37.7	38.2	38.5	38.9	39.2	39.6	40.0	40.1
100°	47.0	47.5	47.9	48.3	48.6	48.9	49.2	49.4	49.7	49.9	50.0
102.5°	58.3	58.7	59.2	59.8	60.2	60.7	60.9	61.2	61.4	61.5	61.6
105°	75.5	76.0	76.6	77.3	77.9	78.6	78.6	78.6	78.6	78.6	78.7
107.5°	95.9	96.0	96.2	96.5	96.8	97.1	97.3	97.6	97.7	98.0	98.1
110°	108.9	109.0	109.1	109.3	109.4	109.6	109.9	110.2	110.5	110.7	110.8



TEST NUMBER: P332046-830

CATALOG NUMBER: S123DIP-S1165D365U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	122.0	122.0	122.1	122.1	122.1	122.2	122.4	122.8	123.2	123.6	123.7
115°	142.4	142.5	142.3	142.2	142.0	141.9	141.9	142.0	142.1	142.2	142.2
117.5°	162.3	162.2	162.0	161.8	161.6	161.5	161.5	161.5	161.5	161.5	161.3
120°	176.0	176.0	175.7	175.3	174.9	174.6	174.5	174.4	174.3	174.3	174.1
122.5°	188.6	188.6	188.4	188.2	188.0	187.8	187.7	187.5	187.3	187.1	186.9
125°	208.1	208.1	207.9	207.8	207.6	207.5	207.2	206.9	206.6	206.3	206.0
127.5°	227.4	227.6	227.4	227.2	227.2	227.0	226.6	226.1	225.7	225.3	224.9
130°	240.2	240.3	240.2	240.0	239.7	239.5	239.2	238.9	238.6	238.3	237.9
132.5°	252.4	252.7	252.5	252.3	252.1	252.0	251.7	251.3	250.9	250.6	250.2
135°	270.6	270.8	270.7	270.6	270.5	270.5	270.1	269.8	269.6	269.3	269.1
137.5°	287.6	287.9	288.0	288.2	288.4	288.6	288.3	288.0	287.8	287.4	287.1
140°	299.6	299.8	299.9	299.9	300.0	300.1	300.0	299.9	299.9	299.8	299.5
142.5°	310.5	310.8	310.9	311.0	311.1	311.3	311.2	311.1	311.0	311.0	310.8
145°	326.7	326.9	327.1	327.3	327.5	327.7	327.7	327.6	327.5	327.4	327.3
147.5°	342.0	342.3	342.5	342.7	342.9	343.2	343.2	343.2	343.2	343.2	342.9
150°	352.0	352.1	352.3	352.4	352.6	352.7	352.7	352.7	352.7	352.7	352.5
152.5°	360.8	360.9	361.0	361.1	361.2	361.3	361.4	361.5	361.7	361.7	361.6
155°	373.4	373.4	373.5	373.5	373.6	373.7	374.0	374.3	374.6	374.9	374.8
157.5°	384.5	384.5	384.6	384.6	384.7	384.7	385.0	385.3	385.7	386.0	385.9
160°	391.4	391.3	391.3	391.3	391.3	391.3	391.7	392.1	392.5	392.9	392.9
162.5°	397.6	397.6	397.6	397.7	397.8	397.8	398.1	398.5	398.9	399.3	399.2
165°	405.8	405.7	405.7	405.7	405.7	405.7	406.1	406.6	407.0	407.5	407.5
167.5°	412.1	412.0	412.1	412.1	412.2	412.3	412.6	413.1	413.6	414.1	414.1
170°	415.8	415.7	415.7	415.7	415.7	415.7	416.2	416.7	417.3	417.7	417.7
172.5°	418.8	418.6	418.6	418.6	418.6	418.6	419.1	419.5	420.0	420.5	420.5
175°	421.9	421.7	421.7	421.7	421.7	421.7	422.2	422.5	423.0	423.5	423.4
177.5°	423.3	423.2	423.2	423.2	423.2	423.2	423.6	424.0	424.2	424.6	424.6
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332046-830

CATALOG NUMBER: S123DIP-S1165D365U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1462.0	1461.4	1465.6	1462.5	1465.6	1461.4	1462.0	1466.1	1467.4	1467.9	1467.9
5°	1360.7	1363.0	1355.6	1355.6	1355.6	1363.0	1360.7	1365.3	1368.9	1371.9	1376.3
7.5°	1270.7	1267.4	1267.7	1263.8	1267.7	1267.4	1270.7	1274.2	1279.0	1285.5	1291.6
10°	1215.6	1211.2	1209.7	1210.4	1209.7	1211.2	1215.6	1224.5	1227.5	1233.4	1240.0
12.5°	1170.0	1169.0	1159.3	1159.4	1159.3	1169.0	1170.0	1172.3	1178.8	1191.3	1199.1
15°	1116.3	1102.3	1100.8	1105.2	1100.8	1102.3	1116.3	1116.3	1119.3	1128.9	1133.4
17.5°	1062.5	1055.2	1055.6	1053.4	1055.6	1055.2	1062.5	1063.8	1066.1	1073.9	1079.9
20°	1034.1	1029.6	1028.9	1023.7	1028.9	1029.6	1034.1	1034.1	1037.1	1040.8	1046.7
22.5°	1008.0	1006.5	1007.0	1001.3	1007.0	1006.5	1008.0	1009.8	1012.8	1015.3	1019.5
25°	975.6	979.3	976.3	976.3	976.3	979.3	975.6	976.3	977.0	980.8	983.7
27.5°	953.7	953.5	952.1	952.1	952.1	953.5	953.7	951.9	951.0	949.7	949.0
30°	937.1	936.3	937.8	937.8	937.8	936.3	937.1	934.1	932.6	931.9	928.9
32.5°	920.5	921.5	921.8	922.4	921.8	921.5	920.5	916.9	914.3	912.3	909.9
35°	894.8	895.6	897.8	896.4	897.8	895.6	894.8	890.4	887.4	883.0	879.3
37.5°	860.2	863.6	862.8	864.0	862.8	863.6	860.2	858.8	855.9	852.4	848.2
40°	834.1	836.3	835.6	835.6	835.6	836.3	834.1	833.4	830.4	828.2	824.4
42.5°	807.5	809.1	807.1	806.0	807.1	809.1	807.5	806.1	804.4	800.3	796.1
45°	763.7	762.2	764.5	761.5	764.5	762.2	763.7	760.7	760.1	757.1	753.4
47.5°	714.8	716.3	716.9	719.2	716.9	716.3	714.8	715.1	711.0	709.2	708.0
50°	682.2	686.6	686.6	686.0	686.6	686.6	682.2	680.8	677.8	674.9	674.9
52.5°	650.3	652.3	655.3	655.2	655.3	652.3	650.3	647.6	644.6	640.5	639.3
55°	600.8	602.3	603.7	604.5	603.7	602.3	600.8	594.8	592.6	590.4	586.6
57.5°	549.5	548.9	552.4	553.5	552.4	548.9	549.5	544.1	540.7	534.0	533.0
60°	513.3	513.3	519.2	521.5	519.2	513.3	513.3	507.5	502.3	497.8	496.3
62.5°	474.9	477.2	483.1	480.0	483.1	477.2	474.9	468.3	464.3	458.6	454.9
65°	418.5	424.4	423.7	426.7	423.7	424.4	418.5	414.8	406.7	401.5	397.1
67.5°	359.7	363.4	368.7	369.2	368.7	363.4	359.7	353.8	348.5	343.0	337.6
70°	320.0	323.7	326.7	328.9	326.7	323.7	320.0	314.1	308.1	304.4	298.5
72.5°	281.5	283.4	290.5	287.4	290.5	283.4	281.5	274.4	269.7	266.6	260.0
75°	220.7	225.9	230.4	228.2	230.4	225.9	220.7	215.6	211.9	207.5	201.5
77.5°	163.2	168.4	170.5	168.6	170.5	168.4	163.2	159.9	158.0	149.2	148.6
80°	128.9	128.2	132.6	131.9	132.6	128.2	128.9	123.7	120.0	114.8	114.8
82.5°	94.5	93.8	95.9	96.3	95.9	93.8	94.5	91.7	86.8	84.6	82.8
85°	45.9	48.2	45.1	44.5	45.1	48.2	45.9	43.0	43.0	43.0	42.2
87.5°	12.5	12.6	12.1	11.5	12.1	12.6	12.5	12.5	14.9	13.0	13.0
90°	9.5	9.7	9.8	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6
92.5°	13.8	13.7	13.6	13.5	13.6	13.7	13.8	13.9	13.8	13.5	13.3
95°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	25.8	25.5	25.3
97.5°	40.1	40.1	40.0	40.0	40.0	40.1	40.1	40.1	40.0	39.6	39.2
100°	50.1	50.3	50.5	50.6	50.5	50.3	50.1	50.0	49.9	49.7	49.4
102.5°	61.6	61.6	61.5	61.5	61.5	61.6	61.6	61.6	61.5	61.4	61.2
105°	78.8	79.0	79.2	79.3	79.2	79.0	78.8	78.7	78.6	78.6	78.6
107.5°	98.0	97.9	97.8	97.7	97.8	97.9	98.0	98.1	98.0	97.7	97.6
110°	110.7	110.6	110.4	110.3	110.4	110.6	110.7	110.8	110.7	110.5	110.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	123.7	123.7	123.6	123.6	123.6	123.7	123.7	123.7	123.6	123.2	122.8
115°	142.1	142.0	141.9	141.9	141.9	142.0	142.1	142.2	142.2	142.1	142.0
117.5°	161.1	160.9	160.7	160.5	160.7	160.9	161.1	161.3	161.5	161.5	161.5
120°	174.0	173.8	173.7	173.5	173.7	173.8	174.0	174.1	174.3	174.3	174.4
122.5°	186.7	186.4	186.2	186.1	186.2	186.4	186.7	186.9	187.1	187.3	187.5
125°	205.8	205.5	205.1	204.8	205.1	205.5	205.8	206.0	206.3	206.6	206.9
127.5°	224.6	224.2	223.9	223.6	223.9	224.2	224.6	224.9	225.3	225.7	226.1
130°	237.4	236.9	236.4	235.8	236.4	236.9	237.4	237.9	238.3	238.6	238.9
132.5°	249.8	249.4	249.0	248.6	249.0	249.4	249.8	250.2	250.6	250.9	251.3
135°	268.9	268.7	268.6	268.4	268.6	268.7	268.9	269.1	269.3	269.6	269.8
137.5°	286.8	286.5	286.3	286.0	286.3	286.5	286.8	287.1	287.4	287.8	288.0
140°	299.0	298.5	297.9	297.5	297.9	298.5	299.0	299.5	299.8	299.9	299.9
142.5°	310.4	310.0	309.5	309.2	309.5	310.0	310.4	310.8	311.0	311.0	311.1
145°	327.0	326.7	326.4	326.1	326.4	326.7	327.0	327.3	327.4	327.5	327.6
147.5°	342.5	342.0	341.6	341.1	341.6	342.0	342.5	342.9	343.2	343.2	343.2
150°	352.0	351.7	351.2	350.7	351.2	351.7	352.0	352.5	352.7	352.7	352.7
152.5°	361.2	360.8	360.4	360.1	360.4	360.8	361.2	361.6	361.7	361.7	361.5
155°	374.3	373.7	373.2	372.7	373.2	373.7	374.3	374.8	374.9	374.6	374.3
157.5°	385.5	385.1	384.7	384.3	384.7	385.1	385.5	385.9	386.0	385.7	385.3
160°	392.6	392.3	392.0	391.7	392.0	392.3	392.6	392.9	392.9	392.5	392.1
162.5°	398.7	398.2	397.8	397.3	397.8	398.2	398.7	399.2	399.3	398.9	398.5
165°	406.9	406.4	405.9	405.4	405.9	406.4	406.9	407.5	407.5	407.0	406.6
167.5°	413.6	413.1	412.6	412.3	412.6	413.1	413.6	414.1	414.1	413.6	413.1
170°	417.3	416.7	416.2	415.7	416.2	416.7	417.3	417.7	417.7	417.3	416.7
172.5°	419.9	419.4	418.9	418.4	418.9	419.4	419.9	420.5	420.5	420.0	419.5
175°	422.9	422.4	421.9	421.3	421.9	422.4	422.9	423.4	423.5	423.0	422.5
177.5°	424.2	423.8	423.4	422.9	423.4	423.8	424.2	424.6	424.6	424.2	424.0
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332046-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1466.1	1466.1	1477.3	1484.5	1493.4	1499.3	1503.4	1507.6	1514.8	1524.2	1534.8
5°	1382.2	1385.3	1401.6	1417.9	1433.4	1446.7	1457.8	1471.1	1487.4	1507.4	1529.7
7.5°	1301.1	1312.5	1328.9	1348.8	1370.6	1390.0	1409.7	1431.6	1454.5	1484.0	1515.1
10°	1249.0	1261.5	1281.5	1306.7	1329.6	1352.6	1377.1	1400.8	1429.6	1464.5	1504.5
12.5°	1203.3	1215.3	1235.9	1263.5	1285.3	1310.6	1338.6	1369.4	1401.8	1443.8	1489.1
15°	1140.0	1154.1	1179.3	1192.6	1226.0	1256.3	1282.2	1326.7	1368.2	1411.2	1463.8
17.5°	1088.2	1096.0	1116.4	1141.2	1166.1	1200.1	1234.1	1271.1	1312.5	1365.1	1430.9
20°	1052.6	1059.3	1081.5	1107.5	1134.1	1165.3	1195.6	1232.7	1279.3	1334.8	1406.0
22.5°	1026.0	1033.2	1047.7	1075.4	1100.3	1126.1	1156.5	1200.6	1250.3	1304.7	1381.7
25°	987.4	991.8	1001.5	1023.7	1045.9	1074.9	1101.5	1143.0	1194.1	1257.8	1334.8
27.5°	950.8	955.2	963.2	979.1	999.8	1023.3	1052.3	1087.6	1139.4	1208.6	1290.4
30°	928.9	929.6	937.1	951.9	969.7	988.9	1015.6	1055.6	1104.5	1174.9	1260.7
32.5°	909.9	907.1	912.2	923.4	940.7	959.9	981.8	1021.2	1068.4	1137.6	1225.8
35°	877.8	876.3	874.1	883.7	898.5	913.3	932.6	962.2	1015.6	1080.1	1172.6
37.5°	845.1	841.5	837.5	842.0	853.5	868.9	885.6	912.0	958.0	1028.9	1117.5
40°	820.8	817.8	815.6	814.1	824.4	839.2	851.9	877.0	920.0	987.4	1074.9
42.5°	794.1	792.3	789.5	787.4	796.1	807.3	820.5	842.7	885.6	949.0	1031.6
45°	751.1	749.7	748.2	746.7	751.9	762.2	772.6	788.9	826.0	887.4	962.2
47.5°	703.3	701.3	701.9	699.6	704.6	711.6	718.9	736.3	771.8	821.5	876.2
50°	668.9	668.2	668.2	668.2	669.7	677.8	684.5	697.8	730.4	780.0	819.3
52.5°	636.3	633.2	633.2	634.4	637.1	642.2	646.6	661.1	689.5	730.3	765.9
55°	585.2	579.3	577.8	579.3	581.5	586.0	590.4	602.3	626.7	657.0	677.8
57.5°	528.6	525.4	523.4	523.7	524.9	528.5	531.9	544.8	564.0	579.9	593.2
60°	488.9	490.4	483.7	485.2	485.2	488.1	493.3	501.5	517.8	528.9	542.2
62.5°	451.6	449.5	447.6	445.5	445.5	446.7	453.6	460.1	473.9	479.8	490.1
65°	393.3	393.3	388.9	390.4	391.2	386.0	389.6	397.1	406.0	408.1	417.8
67.5°	334.4	332.3	329.8	327.5	327.5	327.2	329.0	332.7	339.4	340.2	347.6
70°	294.1	292.6	291.9	289.6	286.7	290.4	288.1	291.9	295.6	296.3	300.8
72.5°	255.0	253.4	252.1	250.0	248.7	248.3	248.5	252.8	255.2	254.2	259.3
75°	199.3	197.7	196.3	192.6	192.6	190.4	191.1	194.1	197.1	194.8	199.3
77.5°	146.4	141.8	141.5	142.5	140.0	140.4	139.6	139.1	140.4	140.6	144.6
80°	112.6	107.4	108.9	108.1	107.4	106.7	105.2	105.9	106.7	107.4	109.6
82.5°	81.2	80.8	79.3	79.1	78.4	76.4	75.6	76.9	77.7	77.2	78.8
85°	41.5	39.3	40.7	40.0	40.7	40.0	37.8	37.8	39.3	38.5	40.0
87.5°	14.1	14.0	13.3	13.7	12.9	13.3	12.5	12.9	13.4	13.3	14.3
90°	8.3	8.0	7.1	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4
92.5°	13.0	12.8	12.3	11.7	11.1	10.6	10.1	9.6	9.0	8.6	8.1
95°	25.0	24.7	24.0	23.5	22.9	22.2	21.7	21.2	20.6	20.2	19.7
97.5°	38.9	38.5	38.2	37.7	37.3	36.9	36.5	36.1	35.7	35.3	34.9
100°	49.2	48.9	48.6	48.3	47.9	47.5	47.0	46.7	46.2	45.7	45.3
102.5°	60.9	60.7	60.2	59.8	59.2	58.7	58.3	58.1	57.8	57.6	57.3
105°	78.6	78.6	77.9	77.3	76.6	76.0	75.5	75.4	75.2	75.1	74.9
107.5°	97.3	97.1	96.8	96.5	96.2	96.0	95.9	95.8	95.7	95.6	95.5
110°	109.9	109.6	109.4	109.3	109.1	109.0	108.9	108.7	108.6	108.4	108.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	122.4	122.2	122.1	122.1	122.1	122.0	122.0	121.9	121.8	121.7	121.6
115°	141.9	141.9	142.0	142.2	142.3	142.5	142.4	142.2	142.0	141.8	141.6
117.5°	161.5	161.5	161.6	161.8	162.0	162.2	162.3	162.1	162.0	161.8	161.6
120°	174.5	174.6	174.9	175.3	175.7	176.0	176.0	175.5	175.1	174.7	174.2
122.5°	187.7	187.8	188.0	188.2	188.4	188.6	188.6	188.2	187.9	187.6	187.3
125°	207.2	207.5	207.6	207.8	207.9	208.1	208.1	207.8	207.6	207.4	207.2
127.5°	226.6	227.0	227.2	227.2	227.4	227.6	227.4	227.0	226.5	226.0	225.6
130°	239.2	239.5	239.7	240.0	240.2	240.3	240.2	239.6	239.0	238.4	237.8
132.5°	251.7	252.0	252.1	252.3	252.5	252.7	252.4	251.8	251.3	250.7	250.1
135°	270.1	270.5	270.5	270.6	270.7	270.8	270.6	270.1	269.7	269.3	268.8
137.5°	288.3	288.6	288.4	288.2	288.0	287.9	287.6	287.2	286.8	286.5	286.2
140°	300.0	300.1	300.0	299.9	299.9	299.8	299.6	299.3	298.9	298.5	298.1
142.5°	311.2	311.3	311.1	311.0	310.9	310.8	310.5	310.2	309.8	309.4	309.1
145°	327.7	327.7	327.5	327.3	327.1	326.9	326.7	326.5	326.4	326.2	326.1
147.5°	343.2	343.2	342.9	342.7	342.5	342.3	342.0	341.9	341.6	341.3	341.0
150°	352.7	352.7	352.6	352.4	352.3	352.1	352.0	351.9	351.7	351.6	351.4
152.5°	361.4	361.3	361.2	361.1	361.0	360.9	360.8	360.5	360.3	360.1	360.0
155°	374.0	373.7	373.6	373.5	373.5	373.4	373.4	373.4	373.4	373.4	373.4
157.5°	385.0	384.7	384.7	384.6	384.6	384.5	384.5	384.6	384.7	384.7	384.8
160°	391.7	391.3	391.3	391.3	391.3	391.3	391.4	391.6	391.7	391.9	392.0
162.5°	398.1	397.8	397.8	397.7	397.6	397.6	397.6	397.8	398.0	398.2	398.4
165°	406.1	405.7	405.7	405.7	405.7	405.7	405.8	406.0	406.2	406.5	406.7
167.5°	412.6	412.3	412.2	412.1	412.1	412.0	412.1	412.4	412.7	413.0	413.3
170°	416.2	415.7	415.7	415.7	415.7	415.7	415.8	416.1	416.4	416.7	417.0
172.5°	419.1	418.6	418.6	418.6	418.6	418.6	418.8	419.1	419.3	419.6	420.0
175°	422.2	421.7	421.7	421.7	421.7	421.7	421.9	422.2	422.4	422.7	423.0
177.5°	423.6	423.2	423.2	423.2	423.2	423.2	423.3	423.6	423.8	424.0	424.2
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332046-830

CATALOG NUMBER: S123DIP-S1165D365U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1538.4	1541.3	1551.4	1558.6	1566.9	1571.6	1576.3	1579.9	1584.6	1585.8	1603.0
5°	1545.2	1560.1	1586.0	1605.2	1628.9	1654.8	1672.6	1680.8	1702.2	1720.0	1755.6
7.5°	1543.3	1574.9	1614.0	1654.5	1698.1	1738.4	1773.4	1814.9	1844.4	1888.7	1932.4
10°	1541.5	1583.8	1634.1	1686.0	1746.7	1803.0	1853.4	1909.7	1956.3	2017.8	2070.4
12.5°	1536.2	1587.3	1657.3	1718.5	1792.3	1870.0	1944.7	2016.9	2058.3	2160.7	2209.1
15°	1523.1	1583.8	1671.1	1764.5	1866.0	1957.8	2052.7	2128.3	2250.4	2340.1	2397.1
17.5°	1497.8	1582.9	1686.6	1799.1	1922.6	2043.6	2151.1	2265.7	2395.4	2503.8	2619.3
20°	1486.0	1579.3	1694.9	1819.3	1947.5	2084.5	2206.8	2344.5	2486.1	2592.7	2740.8
22.5°	1464.1	1569.8	1694.3	1833.0	1970.0	2111.8	2254.8	2393.7	2557.1	2704.1	2845.2
25°	1428.2	1546.7	1675.7	1830.4	1991.2	2133.4	2304.5	2489.0	2659.4	2848.3	2989.0
27.5°	1390.5	1517.1	1646.2	1790.3	1963.1	2131.9	2347.2	2555.6	2763.9	2927.1	3031.2
30°	1361.5	1484.5	1617.9	1763.0	1934.1	2134.9	2375.6	2603.0	2806.0	2946.0	3004.5
32.5°	1330.1	1454.8	1572.8	1725.1	1907.4	2133.1	2393.4	2630.9	2808.4	2901.6	2890.2
35°	1280.8	1385.3	1500.1	1646.7	1861.5	2120.1	2403.8	2633.4	2742.3	2722.3	2571.2
37.5°	1209.7	1297.5	1410.6	1571.1	1808.2	2092.6	2383.0	2555.3	2548.3	2385.4	2166.4
40°	1165.3	1240.0	1349.0	1517.9	1766.7	2074.9	2350.4	2462.3	2367.5	2140.0	1877.8
42.5°	1107.1	1176.0	1285.0	1458.6	1721.1	2038.7	2288.2	2320.6	2135.1	1873.4	1633.0
45°	1017.1	1077.8	1190.4	1369.7	1652.7	1960.0	2136.4	2057.1	1807.4	1537.1	1354.2
47.5°	920.3	983.4	1091.7	1275.9	1553.7	1841.7	1925.7	1757.1	1500.8	1281.5	1113.5
50°	859.3	920.0	1026.0	1211.9	1486.7	1744.5	1779.3	1561.5	1326.0	1133.4	995.6
52.5°	797.7	854.9	959.0	1145.5	1408.5	1631.9	1610.4	1388.5	1171.9	1007.8	899.6
55°	706.0	760.1	859.3	1034.1	1273.4	1450.4	1372.6	1160.7	981.5	854.1	771.8
57.5°	623.9	675.7	761.4	919.3	1127.3	1249.0	1150.0	971.5	828.9	730.8	669.5
60°	568.2	614.1	695.6	842.3	1023.0	1115.6	1017.9	860.1	740.0	661.5	606.7
62.5°	515.4	555.4	630.9	764.0	921.1	998.8	899.8	766.4	664.2	594.6	548.0
65°	435.5	471.8	538.6	642.2	771.1	823.0	737.8	629.6	550.4	498.5	467.4
67.5°	362.7	393.5	451.1	532.7	627.5	665.3	600.5	516.8	457.0	415.4	390.7
70°	314.1	340.7	386.0	456.3	542.2	571.1	510.4	441.5	397.8	364.5	341.5
72.5°	273.1	292.8	333.8	388.1	459.9	482.9	440.5	379.8	339.1	314.1	295.9
75°	208.1	224.4	251.1	294.8	344.5	357.8	325.9	288.1	260.7	243.0	228.8
77.5°	150.1	162.1	181.3	208.3	242.7	254.7	234.5	209.3	189.4	177.3	169.5
80°	113.3	123.0	139.3	161.5	182.2	188.9	177.0	157.8	143.7	137.0	130.4
82.5°	83.7	89.2	99.0	114.0	128.3	136.2	126.1	114.5	107.0	100.9	98.4
85°	42.2	45.1	49.7	55.5	64.5	67.4	63.7	60.7	56.3	52.6	52.6
87.5°	15.6	15.7	17.7	19.0	21.6	23.6	23.2	22.1	21.8	21.2	20.6
90°	1.0	1.8	2.5	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6
92.5°	8.6	9.0	9.6	10.1	10.6	11.1	11.7	12.3	12.8	13.0	13.3
95°	20.2	20.6	21.2	21.7	22.2	22.9	23.5	24.0	24.7	25.0	25.3
97.5°	35.3	35.7	36.1	36.5	36.9	37.3	37.7	38.2	38.5	38.9	39.2
100°	45.7	46.2	46.7	47.0	47.5	47.9	48.3	48.6	48.9	49.2	49.4
102.5°	57.6	57.8	58.1	58.3	58.7	59.2	59.8	60.2	60.7	60.9	61.2
105°	75.1	75.2	75.4	75.5	76.0	76.6	77.3	77.9	78.6	78.6	78.6
107.5°	95.6	95.7	95.8	95.9	96.0	96.2	96.5	96.8	97.1	97.3	97.6
110°	108.4	108.6	108.7	108.9	109.0	109.1	109.3	109.4	109.6	109.9	110.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	121.7	121.8	121.9	122.0	122.0	122.1	122.1	122.1	122.2	122.4	122.8
115°	141.8	142.0	142.2	142.4	142.5	142.3	142.2	142.0	141.9	141.9	142.0
117.5°	161.8	162.0	162.1	162.3	162.2	162.0	161.8	161.6	161.5	161.5	161.5
120°	174.7	175.1	175.5	176.0	176.0	175.7	175.3	174.9	174.6	174.5	174.4
122.5°	187.6	187.9	188.2	188.6	188.6	188.4	188.2	188.0	187.8	187.7	187.5
125°	207.4	207.6	207.8	208.1	208.1	207.9	207.8	207.6	207.5	207.2	206.9
127.5°	226.0	226.5	227.0	227.4	227.6	227.4	227.2	227.2	227.0	226.6	226.1
130°	238.4	239.0	239.6	240.2	240.3	240.2	240.0	239.7	239.5	239.2	238.9
132.5°	250.7	251.3	251.8	252.4	252.7	252.5	252.3	252.1	252.0	251.7	251.3
135°	269.3	269.7	270.1	270.6	270.8	270.7	270.6	270.5	270.5	270.1	269.8
137.5°	286.5	286.8	287.2	287.6	287.9	288.0	288.2	288.4	288.6	288.3	288.0
140°	298.5	298.9	299.3	299.6	299.8	299.9	299.9	300.0	300.1	300.0	299.9
142.5°	309.4	309.8	310.2	310.5	310.8	310.9	311.0	311.1	311.3	311.2	311.1
145°	326.2	326.4	326.5	326.7	326.9	327.1	327.3	327.5	327.7	327.7	327.6
147.5°	341.3	341.6	341.9	342.0	342.3	342.5	342.7	342.9	343.2	343.2	343.2
150°	351.6	351.7	351.9	352.0	352.1	352.3	352.4	352.6	352.7	352.7	352.7
152.5°	360.1	360.3	360.5	360.8	360.9	361.0	361.1	361.2	361.3	361.4	361.5
155°	373.4	373.4	373.4	373.4	373.4	373.5	373.5	373.6	373.7	374.0	374.3
157.5°	384.7	384.7	384.6	384.5	384.5	384.6	384.6	384.7	384.7	385.0	385.3
160°	391.9	391.7	391.6	391.4	391.3	391.3	391.3	391.3	391.3	391.7	392.1
162.5°	398.2	398.0	397.8	397.6	397.6	397.6	397.7	397.8	397.8	398.1	398.5
165°	406.5	406.2	406.0	405.8	405.7	405.7	405.7	405.7	405.7	406.1	406.6
167.5°	413.0	412.7	412.4	412.1	412.0	412.1	412.1	412.2	412.3	412.6	413.1
170°	416.7	416.4	416.1	415.8	415.7	415.7	415.7	415.7	415.7	416.2	416.7
172.5°	419.6	419.3	419.1	418.8	418.6	418.6	418.6	418.6	418.6	419.1	419.5
175°	422.7	422.4	422.2	421.9	421.7	421.7	421.7	421.7	421.7	422.2	422.5
177.5°	424.0	423.8	423.6	423.3	423.2	423.2	423.2	423.2	423.2	423.6	424.0
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1608.9	1609.5	1616.1	1620.8	1618.4	1621.4	1622.6
5°	1757.8	1784.5	1798.6	1808.9	1809.7	1810.4	1816.4
7.5°	1969.0	1997.5	2018.5	2050.1	2059.6	2070.4	2067.3
10°	2123.1	2165.2	2201.6	2220.8	2241.6	2271.9	2247.5
12.5°	2267.0	2341.8	2397.1	2427.0	2446.6	2452.7	2440.7
15°	2504.5	2602.3	2654.9	2653.4	2720.1	2749.0	2703.8
17.5°	2722.3	2812.5	2884.8	2921.9	2977.4	2989.7	2984.1
20°	2855.6	2954.2	3010.5	3074.2	3103.0	3129.0	3133.4
22.5°	2970.6	3059.0	3119.5	3172.5	3196.7	3209.0	3216.4
25°	3089.0	3158.6	3194.9	3213.4	3220.1	3218.6	3209.0
27.5°	3080.8	3086.2	3046.2	3006.9	2971.8	2932.2	2918.6
30°	3000.9	2938.6	2827.5	2764.6	2671.9	2598.6	2628.2
32.5°	2790.5	2666.6	2541.8	2404.2	2290.3	2257.9	2225.2
35°	2381.5	2163.8	2036.4	1888.2	1828.9	1769.7	1728.9
37.5°	1926.7	1758.3	1607.1	1510.2	1450.9	1413.3	1393.3
40°	1665.9	1514.1	1389.7	1311.2	1265.9	1223.7	1217.9
42.5°	1458.0	1316.8	1223.1	1160.6	1117.2	1099.3	1086.3
45°	1194.1	1095.6	1032.6	988.2	959.3	948.2	933.4
47.5°	1010.7	941.0	893.8	863.6	841.8	833.5	832.4
50°	908.1	850.4	815.6	791.8	774.9	771.8	760.1
52.5°	831.1	781.1	753.9	733.2	721.0	712.7	709.1
55°	721.5	688.2	663.7	651.9	642.2	634.0	634.0
57.5°	631.3	603.4	587.3	577.2	574.2	568.4	564.8
60°	575.6	551.9	539.3	530.4	524.4	525.2	518.5
62.5°	521.0	505.7	493.6	484.7	477.7	477.8	478.2
65°	443.7	431.9	423.0	420.0	415.6	410.4	411.9
67.5°	376.0	364.9	358.0	352.9	351.4	348.6	352.9
70°	327.4	319.2	314.1	309.6	308.1	308.9	312.6
72.5°	283.0	277.2	273.8	271.7	268.4	268.6	271.1
75°	222.3	217.8	214.8	212.6	211.9	211.9	211.9
77.5°	163.2	162.2	160.9	157.6	157.8	158.6	158.8
80°	128.9	126.7	125.9	124.4	122.2	120.7	124.4
82.5°	96.3	94.1	93.3	93.0	89.6	89.4	92.5
85°	51.8	49.7	50.3	49.7	49.7	48.9	48.9
87.5°	20.2	19.6	19.0	19.7	19.1	18.6	19.8
90°	8.9	9.1	9.4	9.5	9.7	9.8	10.0
92.5°	13.5	13.8	13.9	13.8	13.7	13.6	13.5
95°	25.5	25.8	26.0	26.0	26.0	26.0	26.0
97.5°	39.6	40.0	40.1	40.1	40.1	40.0	40.0
100°	49.7	49.9	50.0	50.1	50.3	50.5	50.6
102.5°	61.4	61.5	61.6	61.6	61.6	61.5	61.5
105°	78.6	78.6	78.7	78.8	79.0	79.2	79.3
107.5°	97.7	98.0	98.1	98.0	97.9	97.8	97.7
110°	110.5	110.7	110.8	110.7	110.6	110.4	110.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.2	123.6	123.7	123.7	123.7	123.6	123.6
115°	142.1	142.2	142.2	142.1	142.0	141.9	141.9
117.5°	161.5	161.5	161.3	161.1	160.9	160.7	160.5
120°	174.3	174.3	174.1	174.0	173.8	173.7	173.5
122.5°	187.3	187.1	186.9	186.7	186.4	186.2	186.1
125°	206.6	206.3	206.0	205.8	205.5	205.1	204.8
127.5°	225.7	225.3	224.9	224.6	224.2	223.9	223.6
130°	238.6	238.3	237.9	237.4	236.9	236.4	235.8
132.5°	250.9	250.6	250.2	249.8	249.4	249.0	248.6
135°	269.6	269.3	269.1	268.9	268.7	268.6	268.4
137.5°	287.8	287.4	287.1	286.8	286.5	286.3	286.0
140°	299.9	299.8	299.5	299.0	298.5	297.9	297.5
142.5°	311.0	311.0	310.8	310.4	310.0	309.5	309.2
145°	327.5	327.4	327.3	327.0	326.7	326.4	326.1
147.5°	343.2	343.2	342.9	342.5	342.0	341.6	341.1
150°	352.7	352.7	352.5	352.0	351.7	351.2	350.7
152.5°	361.7	361.7	361.6	361.2	360.8	360.4	360.1
155°	374.6	374.9	374.8	374.3	373.7	373.2	372.7
157.5°	385.7	386.0	385.9	385.5	385.1	384.7	384.3
160°	392.5	392.9	392.9	392.6	392.3	392.0	391.7
162.5°	398.9	399.3	399.2	398.7	398.2	397.8	397.3
165°	407.0	407.5	407.5	406.9	406.4	405.9	405.4
167.5°	413.6	414.1	414.1	413.6	413.1	412.6	412.3
170°	417.3	417.7	417.7	417.3	416.7	416.2	415.7
172.5°	420.0	420.5	420.5	419.9	419.4	418.9	418.4
175°	423.0	423.5	423.4	422.9	422.4	421.9	421.3
177.5°	424.2	424.6	424.6	424.2	423.8	423.4	422.9
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0

(END OF REPORT)