

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: P332056-840

Luminaire Tested: **S123DIP-S1165D585U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332056-840  
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-S1165D585U840-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7087.2 lumens  
Efficiency: N/A  
Efficacy: 128.6 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

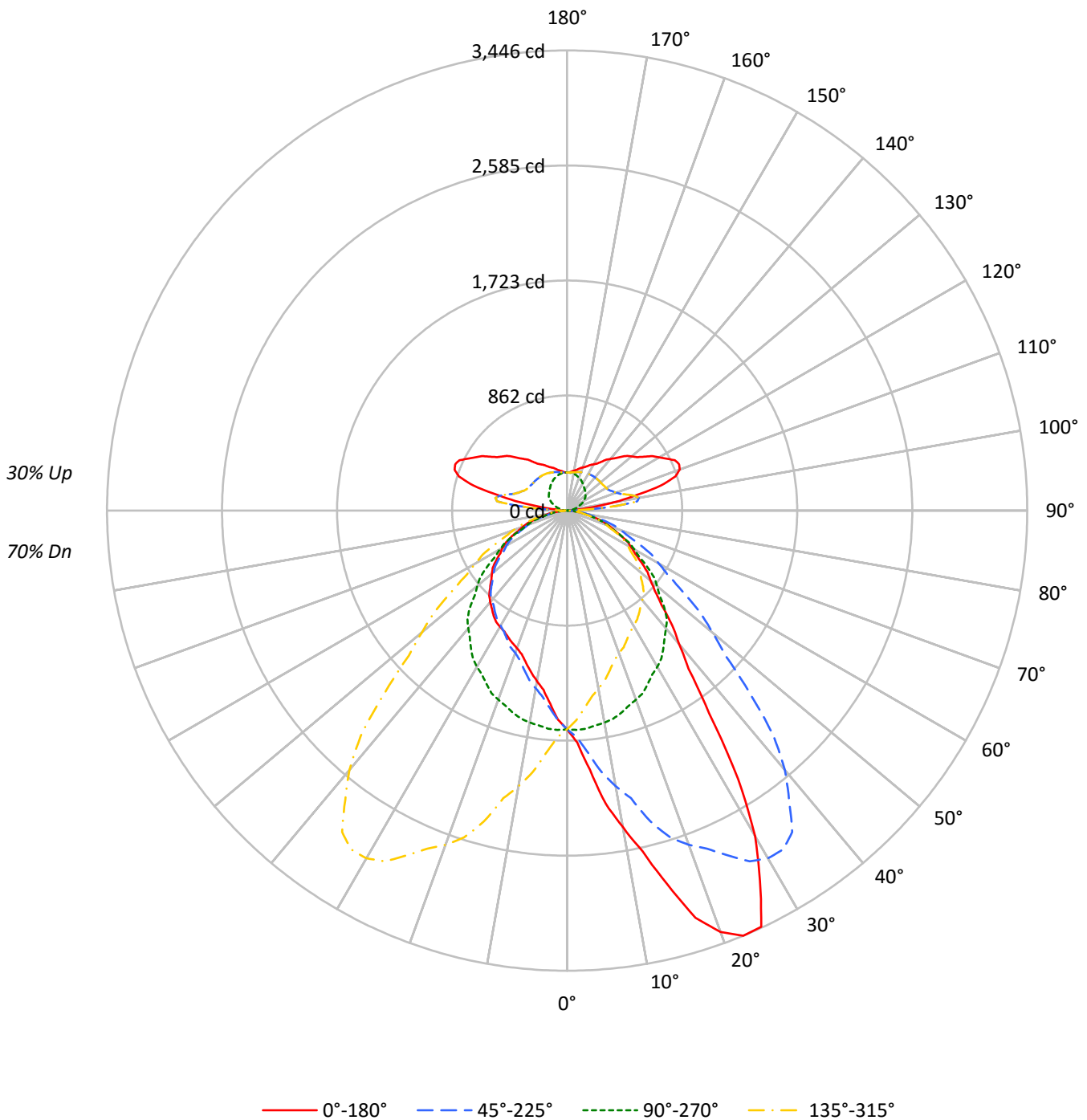
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	103	98	94	91	97	93	90	87	83	81	78	75	73	71	66	65	64
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40
5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35
6	67	55	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	32	28	25
9	54	41	34	28	51	39	32	27	36	30	26	33	28	24	30	26	23
10	50	38	30	26	48	36	29	25	33	27	23	30	25	22	28	24	20

**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	2.3
10°-20°	517.4	7.3
20°-30°	868.4	12.3
30°-40°	983.3	13.9
40°-50°	881.8	12.4
50°-60°	711.6	10.0
60°-70°	495.9	7.0
70°-80°	260.6	3.7
80°-90°	65.9	0.9
90°-100°	158.3	2.2
100°-110°	448.4	6.3
110°-120°	441.1	6.2
120°-130°	351.8	5.0
130°-140°	277.4	3.9
140°-150°	207.0	2.9
150°-160°	144.3	2.0
160°-170°	84.8	1.2
170°-180°	27.6	0.4
0°-30°	1547.2	21.8
0°-40°	2530.6	35.7
0°-60°	4124.0	58.2
0°-90°	4946.4	69.8
90°-120°	1047.8	14.8
90°-150°	1884.1	26.6
90°-180°	2141.0	30.2
0°-180°	7087.2	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	11
95°	67	20	67	20	67	120
105°	733	67	733	67	733	723
115°	891	118	891	118	891	866
125°	703	164	703	164	703	637
135°	570	192	570	192	570	442
145°	445	219	445	219	445	283
155°	369	249	369	249	369	172
165°	322	272	322	272	322	92
175°	290	284	290	284	290	28
180°	285	285	285	285	285	



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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°	22.4	21.2	21.7	22.3	21.7	22.1	22.7	23.2	23.7	24.4	24.7
90°	16.7	17.3	16.7	16.2	16.7	15.6	14.9	14.4	13.8	14.4	12.6
92.5°	27.8	28.8	28.2	30.0	31.0	34.0	38.5	48.5	66.9	88.6	97.5
95°	66.9	69.1	73.1	78.4	89.3	110.0	140.6	207.3	277.0	341.5	304.2
97.5°	181.9	186.8	202.4	228.3	270.8	339.7	414.0	516.9	566.3	529.4	387.5
100°	361.1	360.6	383.0	425.1	483.2	565.0	632.5	679.1	658.9	545.4	368.6
102.5°	529.8	543.0	561.8	595.1	640.4	692.3	731.5	733.1	663.6	515.5	341.0
105°	732.7	735.6	754.0	775.9	802.3	817.4	806.4	748.8	628.4	463.1	307.0
107.5°	849.5	854.7	861.0	868.4	867.9	847.4	797.0	703.4	566.9	416.8	285.4
110°	897.4	898.6	899.7	895.1	879.0	838.7	766.1	660.0	528.2	390.5	277.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	907.1	906.9	902.5	888.2	858.7	806.9	725.5	617.2	494.5	373.0	272.5
115°	891.1	888.2	876.7	851.3	808.1	745.4	660.7	560.5	453.9	354.3	270.7
117.5°	840.1	836.3	819.6	790.6	745.6	681.9	605.8	519.3	429.4	343.2	271.8
120°	797.8	794.3	780.5	748.2	702.8	644.5	575.4	497.7	416.5	338.1	273.6
122.5°	758.1	753.8	738.5	709.5	669.0	615.0	551.0	480.6	405.9	334.9	276.8
125°	702.8	698.7	684.3	658.9	622.1	576.0	520.7	457.9	392.2	330.6	281.7
127.5°	657.1	653.4	640.4	618.7	585.9	544.0	494.1	438.1	380.3	328.5	287.2
130°	631.3	626.7	614.6	593.9	563.3	524.1	477.5	425.7	373.9	327.2	290.8
132.5°	605.9	602.7	592.0	571.3	542.6	505.2	461.8	414.1	367.8	326.7	293.7
135°	569.7	565.6	555.2	538.0	509.8	477.0	439.5	398.6	360.0	326.0	297.8
137.5°	531.3	528.7	519.9	502.4	478.7	450.2	418.0	384.5	353.3	324.8	300.5
140°	504.5	505.1	495.9	479.8	457.9	433.1	405.5	376.2	349.0	324.3	302.4
142.5°	479.7	480.3	472.0	457.7	439.0	417.5	393.5	368.3	345.4	323.4	303.8
145°	445.2	444.1	439.5	427.4	413.0	396.3	377.9	358.8	340.4	321.9	304.7
147.5°	416.9	416.5	412.0	403.8	392.9	381.1	366.2	351.1	335.6	319.8	304.7
150°	400.3	400.3	396.9	390.5	381.9	370.9	358.8	345.6	332.3	317.9	304.7
152.5°	386.5	386.5	384.5	378.5	371.7	362.6	351.9	340.5	328.7	315.7	303.4
155°	369.2	368.6	367.5	362.8	357.7	350.8	342.1	333.0	323.2	311.6	301.8
157.5°	353.5	353.6	352.6	349.2	344.7	339.3	332.5	324.9	316.9	308.0	299.8
160°	343.3	343.9	343.9	340.4	336.4	332.3	326.6	320.2	312.8	305.3	298.9
162.5°	334.1	334.7	334.7	331.6	329.0	325.5	320.1	314.8	308.6	302.6	297.1
165°	321.9	321.9	322.6	320.2	317.9	315.1	311.0	307.6	303.0	298.4	294.4
167.5°	310.4	310.4	311.0	309.4	308.4	306.3	304.0	301.3	297.6	294.2	291.5
170°	303.6	303.6	304.2	303.0	302.4	301.2	298.9	297.2	294.4	291.4	289.7
172.5°	297.1	297.6	298.6	297.4	297.3	296.6	294.8	293.6	291.1	289.1	288.3
175°	289.7	290.3	290.8	290.3	290.3	290.3	289.1	288.6	287.4	286.3	286.3
177.5°	285.5	285.5	286.4	285.9	286.4	286.4	285.9	285.5	285.0	284.6	285.0
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



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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°	25.7	26.0	23.7	20.9	19.5	17.2	17.0	15.5	14.4	14.6	14.3
90°	10.9	9.2	7.5	6.4	5.2	3.4	2.3	1.1	2.3	3.4	5.2
92.5°	73.1	48.4	33.3	24.7	19.9	15.5	10.6	7.2	10.6	15.5	19.9
95°	209.6	123.8	74.8	52.4	37.5	27.7	21.3	19.6	21.3	27.7	37.5
97.5°	230.0	133.3	86.5	62.2	47.5	39.0	34.0	33.4	34.0	39.0	47.5
100°	217.1	131.9	91.6	69.1	55.3	47.3	43.2	42.6	43.2	47.3	55.3
102.5°	206.1	133.7	97.6	77.0	64.5	57.0	53.3	52.3	53.3	57.0	64.5
105°	198.1	138.9	107.8	89.9	78.9	72.0	68.6	66.9	68.6	72.0	78.9
107.5°	197.5	148.2	121.0	104.4	94.1	87.4	84.0	82.2	84.0	87.4	94.1
110°	199.9	156.1	130.2	114.0	104.2	98.0	95.0	93.3	95.0	98.0	104.2





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	204.5	163.9	139.9	124.2	114.4	108.1	105.2	103.4	105.2	108.1	114.4
115°	212.0	176.8	154.9	139.4	129.6	123.8	120.4	118.1	120.4	123.8	129.6
117.5°	221.9	190.6	168.8	154.5	143.5	138.3	135.3	132.7	135.3	138.3	143.5
120°	229.2	199.2	178.5	164.2	153.2	147.4	144.6	142.9	144.6	147.4	153.2
122.5°	236.2	208.5	188.2	172.9	162.4	156.2	153.3	151.6	153.3	156.2	162.4
125°	247.1	221.8	201.6	186.0	175.1	168.7	165.3	164.2	165.3	168.7	175.1
127.5°	256.1	233.3	213.8	198.2	186.1	179.8	175.4	173.7	175.4	179.8	186.1
130°	262.1	240.1	221.2	205.6	193.5	186.6	181.5	179.8	181.5	186.6	193.5
132.5°	267.6	246.2	227.6	212.6	200.5	192.2	186.5	184.3	186.5	192.2	200.5
135°	274.8	255.2	237.3	221.8	209.6	201.1	194.7	192.4	194.7	201.1	209.6
137.5°	280.0	261.4	244.2	229.8	217.8	208.6	202.4	200.0	202.4	208.6	217.8
140°	282.9	265.5	248.8	234.4	222.9	213.7	207.9	205.1	207.9	213.7	222.9
142.5°	285.6	268.7	252.6	239.0	227.5	219.2	213.0	210.6	213.0	219.2	227.5
145°	288.6	273.1	258.0	244.8	235.0	226.4	221.2	219.4	221.2	226.4	235.0
147.5°	290.4	276.5	262.8	251.5	242.1	234.6	229.4	228.4	229.4	234.6	242.1
150°	290.8	278.8	265.5	255.2	247.1	239.6	235.0	234.4	235.0	239.6	247.1
152.5°	291.9	280.1	268.7	258.8	251.8	245.2	240.5	240.4	240.5	245.2	251.8
155°	292.1	282.9	273.1	265.0	258.6	252.9	249.4	249.4	249.4	252.9	258.6
157.5°	292.7	284.3	276.5	270.2	264.9	259.7	257.0	256.5	257.0	259.7	264.9
160°	292.7	285.7	278.8	273.1	269.0	264.4	262.1	262.1	262.1	264.4	269.0
162.5°	292.2	286.2	280.1	275.3	271.8	268.1	266.2	266.2	266.2	268.1	271.8
165°	290.8	286.8	282.3	278.2	275.9	273.1	271.9	272.5	271.9	273.1	275.9
167.5°	289.9	286.7	283.4	280.8	279.2	277.0	276.5	277.2	276.5	277.0	279.2
170°	288.6	286.3	283.4	282.3	281.0	279.3	278.8	279.9	278.8	279.3	281.0
172.5°	288.1	286.3	283.9	283.2	282.5	281.2	281.0	281.8	281.0	281.2	282.5
175°	286.8	285.7	284.6	284.0	284.0	282.9	283.4	284.0	283.4	282.9	284.0
177.5°	285.9	285.0	284.6	284.6	284.6	284.1	284.6	285.0	284.6	284.1	284.6
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332056-840

CATALOG NUMBER: S123DIP-S1165D585U840-4F0-1E-UDD-A4

**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°	13.9	14.8	14.5	15.6	15.2	16.3	16.1	14.9	15.0	17.1	14.7
90°	6.4	7.5	9.2	10.9	12.6	14.4	13.8	14.4	14.9	15.6	16.7
92.5°	24.7	33.3	48.4	73.1	97.5	88.6	66.9	48.5	38.5	34.0	31.0
95°	52.4	74.8	123.8	209.6	304.2	341.5	277.0	207.3	140.6	110.0	89.3
97.5°	62.2	86.5	133.3	230.0	387.5	529.4	566.3	516.9	414.0	339.7	270.8
100°	69.1	91.6	131.9	217.1	368.6	545.4	658.9	679.1	632.5	565.0	483.2
102.5°	77.0	97.6	133.7	206.1	341.0	515.5	663.6	733.1	731.5	692.3	640.4
105°	89.9	107.8	138.9	198.1	307.0	463.1	628.4	748.8	806.4	817.4	802.3
107.5°	104.4	121.0	148.2	197.5	285.4	416.8	566.9	703.4	797.0	847.4	867.9
110°	114.0	130.2	156.1	199.9	277.0	390.5	528.2	660.0	766.1	838.7	879.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.2	139.9	163.9	204.5	272.5	373.0	494.5	617.2	725.5	806.9	858.7
115°	139.4	154.9	176.8	212.0	270.7	354.3	453.9	560.5	660.7	745.4	808.1
117.5°	154.5	168.8	190.6	221.9	271.8	343.2	429.4	519.3	605.8	681.9	745.6
120°	164.2	178.5	199.2	229.2	273.6	338.1	416.5	497.7	575.4	644.5	702.8
122.5°	172.9	188.2	208.5	236.2	276.8	334.9	405.9	480.6	551.0	615.0	669.0
125°	186.0	201.6	221.8	247.1	281.7	330.6	392.2	457.9	520.7	576.0	622.1
127.5°	198.2	213.8	233.3	256.1	287.2	328.5	380.3	438.1	494.1	544.0	585.9
130°	205.6	221.2	240.1	262.1	290.8	327.2	373.9	425.7	477.5	524.1	563.3
132.5°	212.6	227.6	246.2	267.6	293.7	326.7	367.8	414.1	461.8	505.2	542.6
135°	221.8	237.3	255.2	274.8	297.8	326.0	360.0	398.6	439.5	477.0	509.8
137.5°	229.8	244.2	261.4	280.0	300.5	324.8	353.3	384.5	418.0	450.2	478.7
140°	234.4	248.8	265.5	282.9	302.4	324.3	349.0	376.2	405.5	433.1	457.9
142.5°	239.0	252.6	268.7	285.6	303.8	323.4	345.4	368.3	393.5	417.5	439.0
145°	244.8	258.0	273.1	288.6	304.7	321.9	340.4	358.8	377.9	396.3	413.0
147.5°	251.5	262.8	276.5	290.4	304.7	319.8	335.6	351.1	366.2	381.1	392.9
150°	255.2	265.5	278.8	290.8	304.7	317.9	332.3	345.6	358.8	370.9	381.9
152.5°	258.8	268.7	280.1	291.9	303.4	315.7	328.7	340.5	351.9	362.6	371.7
155°	265.0	273.1	282.9	292.1	301.8	311.6	323.2	333.0	342.1	350.8	357.7
157.5°	270.2	276.5	284.3	292.7	299.8	308.0	316.9	324.9	332.5	339.3	344.7
160°	273.1	278.8	285.7	292.7	298.9	305.3	312.8	320.2	326.6	332.3	336.4
162.5°	275.3	280.1	286.2	292.2	297.1	302.6	308.6	314.8	320.1	325.5	329.0
165°	278.2	282.3	286.8	290.8	294.4	298.4	303.0	307.6	311.0	315.1	317.9
167.5°	280.8	283.4	286.7	289.9	291.5	294.2	297.6	301.3	304.0	306.3	308.4
170°	282.3	283.4	286.3	288.6	289.7	291.4	294.4	297.2	298.9	301.2	302.4
172.5°	283.2	283.9	286.3	288.1	288.3	289.1	291.1	293.6	294.8	296.6	297.3
175°	284.0	284.6	285.7	286.8	286.3	286.3	287.4	288.6	289.1	290.3	290.3
177.5°	284.6	284.6	285.0	285.9	285.0	284.6	285.0	285.5	285.9	286.4	286.4
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332056-840

CATALOG NUMBER: S123DIP-S1165D585U840-4F0-1E-UDD-A4

**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°	14.6	14.7	14.2	13.5	14.2	14.7	14.6	14.7	17.1	15.0	14.9
90°	16.2	16.7	17.3	16.7	17.3	16.7	16.2	16.7	15.6	14.9	14.4
92.5°	30.0	28.2	28.8	27.8	28.8	28.2	30.0	31.0	34.0	38.5	48.5
95°	78.4	73.1	69.1	66.9	69.1	73.1	78.4	89.3	110.0	140.6	207.3
97.5°	228.3	202.4	186.8	181.9	186.8	202.4	228.3	270.8	339.7	414.0	516.9
100°	425.1	383.0	360.6	361.1	360.6	383.0	425.1	483.2	565.0	632.5	679.1
102.5°	595.1	561.8	543.0	529.8	543.0	561.8	595.1	640.4	692.3	731.5	733.1
105°	775.9	754.0	735.6	732.7	735.6	754.0	775.9	802.3	817.4	806.4	748.8
107.5°	868.4	861.0	854.7	849.5	854.7	861.0	868.4	867.9	847.4	797.0	703.4
110°	895.1	899.7	898.6	897.4	898.6	899.7	895.1	879.0	838.7	766.1	660.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	888.2	902.5	906.9	907.1	906.9	902.5	888.2	858.7	806.9	725.5	617.2
115°	851.3	876.7	888.2	891.1	888.2	876.7	851.3	808.1	745.4	660.7	560.5
117.5°	790.6	819.6	836.3	840.1	836.3	819.6	790.6	745.6	681.9	605.8	519.3
120°	748.2	780.5	794.3	797.8	794.3	780.5	748.2	702.8	644.5	575.4	497.7
122.5°	709.5	738.5	753.8	758.1	753.8	738.5	709.5	669.0	615.0	551.0	480.6
125°	658.9	684.3	698.7	702.8	698.7	684.3	658.9	622.1	576.0	520.7	457.9
127.5°	618.7	640.4	653.4	657.1	653.4	640.4	618.7	585.9	544.0	494.1	438.1
130°	593.9	614.6	626.7	631.3	626.7	614.6	593.9	563.3	524.1	477.5	425.7
132.5°	571.3	592.0	602.7	605.9	602.7	592.0	571.3	542.6	505.2	461.8	414.1
135°	538.0	555.2	565.6	569.7	565.6	555.2	538.0	509.8	477.0	439.5	398.6
137.5°	502.4	519.9	528.7	531.3	528.7	519.9	502.4	478.7	450.2	418.0	384.5
140°	479.8	495.9	505.1	504.5	505.1	495.9	479.8	457.9	433.1	405.5	376.2
142.5°	457.7	472.0	480.3	479.7	480.3	472.0	457.7	439.0	417.5	393.5	368.3
145°	427.4	439.5	444.1	445.2	444.1	439.5	427.4	413.0	396.3	377.9	358.8
147.5°	403.8	412.0	416.5	416.9	416.5	412.0	403.8	392.9	381.1	366.2	351.1
150°	390.5	396.9	400.3	400.3	400.3	396.9	390.5	381.9	370.9	358.8	345.6
152.5°	378.5	384.5	386.5	386.5	386.5	384.5	378.5	371.7	362.6	351.9	340.5
155°	362.8	367.5	368.6	369.2	368.6	367.5	362.8	357.7	350.8	342.1	333.0
157.5°	349.2	352.6	353.6	353.5	353.6	352.6	349.2	344.7	339.3	332.5	324.9
160°	340.4	343.9	343.9	343.3	343.9	343.9	340.4	336.4	332.3	326.6	320.2
162.5°	331.6	334.7	334.7	334.1	334.7	334.7	331.6	329.0	325.5	320.1	314.8
165°	320.2	322.6	321.9	321.9	321.9	322.6	320.2	317.9	315.1	311.0	307.6
167.5°	309.4	311.0	310.4	310.4	310.4	311.0	309.4	308.4	306.3	304.0	301.3
170°	303.0	304.2	303.6	303.6	303.6	304.2	303.0	302.4	301.2	298.9	297.2
172.5°	297.4	298.6	297.6	297.1	297.6	298.6	297.4	297.3	296.6	294.8	293.6
175°	290.3	290.8	290.3	289.7	290.3	290.8	290.3	290.3	290.3	289.1	288.6
177.5°	285.9	286.4	285.5	285.5	285.5	286.4	285.9	286.4	286.4	285.9	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332056-840

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**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°	16.1	16.3	15.2	15.6	14.5	14.8	13.9	14.3	14.6	14.4	15.5
90°	13.8	14.4	12.6	10.9	9.2	7.5	6.4	5.2	3.4	2.3	1.1
92.5°	66.9	88.6	97.5	73.1	48.4	33.3	24.7	19.9	15.5	10.6	7.2
95°	277.0	341.5	304.2	209.6	123.8	74.8	52.4	37.5	27.7	21.3	19.6
97.5°	566.3	529.4	387.5	230.0	133.3	86.5	62.2	47.5	39.0	34.0	33.4
100°	658.9	545.4	368.6	217.1	131.9	91.6	69.1	55.3	47.3	43.2	42.6
102.5°	663.6	515.5	341.0	206.1	133.7	97.6	77.0	64.5	57.0	53.3	52.3
105°	628.4	463.1	307.0	198.1	138.9	107.8	89.9	78.9	72.0	68.6	66.9
107.5°	566.9	416.8	285.4	197.5	148.2	121.0	104.4	94.1	87.4	84.0	82.2
110°	528.2	390.5	277.0	199.9	156.1	130.2	114.0	104.2	98.0	95.0	93.3



TEST NUMBER: P332056-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.5	373.0	272.5	204.5	163.9	139.9	124.2	114.4	108.1	105.2	103.4
115°	453.9	354.3	270.7	212.0	176.8	154.9	139.4	129.6	123.8	120.4	118.1
117.5°	429.4	343.2	271.8	221.9	190.6	168.8	154.5	143.5	138.3	135.3	132.7
120°	416.5	338.1	273.6	229.2	199.2	178.5	164.2	153.2	147.4	144.6	142.9
122.5°	405.9	334.9	276.8	236.2	208.5	188.2	172.9	162.4	156.2	153.3	151.6
125°	392.2	330.6	281.7	247.1	221.8	201.6	186.0	175.1	168.7	165.3	164.2
127.5°	380.3	328.5	287.2	256.1	233.3	213.8	198.2	186.1	179.8	175.4	173.7
130°	373.9	327.2	290.8	262.1	240.1	221.2	205.6	193.5	186.6	181.5	179.8
132.5°	367.8	326.7	293.7	267.6	246.2	227.6	212.6	200.5	192.2	186.5	184.3
135°	360.0	326.0	297.8	274.8	255.2	237.3	221.8	209.6	201.1	194.7	192.4
137.5°	353.3	324.8	300.5	280.0	261.4	244.2	229.8	217.8	208.6	202.4	200.0
140°	349.0	324.3	302.4	282.9	265.5	248.8	234.4	222.9	213.7	207.9	205.1
142.5°	345.4	323.4	303.8	285.6	268.7	252.6	239.0	227.5	219.2	213.0	210.6
145°	340.4	321.9	304.7	288.6	273.1	258.0	244.8	235.0	226.4	221.2	219.4
147.5°	335.6	319.8	304.7	290.4	276.5	262.8	251.5	242.1	234.6	229.4	228.4
150°	332.3	317.9	304.7	290.8	278.8	265.5	255.2	247.1	239.6	235.0	234.4
152.5°	328.7	315.7	303.4	291.9	280.1	268.7	258.8	251.8	245.2	240.5	240.4
155°	323.2	311.6	301.8	292.1	282.9	273.1	265.0	258.6	252.9	249.4	249.4
157.5°	316.9	308.0	299.8	292.7	284.3	276.5	270.2	264.9	259.7	257.0	256.5
160°	312.8	305.3	298.9	292.7	285.7	278.8	273.1	269.0	264.4	262.1	262.1
162.5°	308.6	302.6	297.1	292.2	286.2	280.1	275.3	271.8	268.1	266.2	266.2
165°	303.0	298.4	294.4	290.8	286.8	282.3	278.2	275.9	273.1	271.9	272.5
167.5°	297.6	294.2	291.5	289.9	286.7	283.4	280.8	279.2	277.0	276.5	277.2
170°	294.4	291.4	289.7	288.6	286.3	283.4	282.3	281.0	279.3	278.8	279.9
172.5°	291.1	289.1	288.3	288.1	286.3	283.9	283.2	282.5	281.2	281.0	281.8
175°	287.4	286.3	286.3	286.8	285.7	284.6	284.0	284.0	282.9	283.4	284.0
177.5°	285.0	284.6	285.0	285.9	285.0	284.6	284.6	284.6	284.1	284.6	285.0
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



TEST NUMBER: P332056-840

CATALOG NUMBER: S123DIP-S1165D585U840-4F0-1E-UDD-A4

**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°	17.0	17.2	19.5	20.9	23.7	26.0	25.7	24.7	24.4	23.7	23.2
90°	2.3	3.4	5.2	6.4	7.5	9.2	10.9	12.6	14.4	13.8	14.4
92.5°	10.6	15.5	19.9	24.7	33.3	48.4	73.1	97.5	88.6	66.9	48.5
95°	21.3	27.7	37.5	52.4	74.8	123.8	209.6	304.2	341.5	277.0	207.3
97.5°	34.0	39.0	47.5	62.2	86.5	133.3	230.0	387.5	529.4	566.3	516.9
100°	43.2	47.3	55.3	69.1	91.6	131.9	217.1	368.6	545.4	658.9	679.1
102.5°	53.3	57.0	64.5	77.0	97.6	133.7	206.1	341.0	515.5	663.6	733.1
105°	68.6	72.0	78.9	89.9	107.8	138.9	198.1	307.0	463.1	628.4	748.8
107.5°	84.0	87.4	94.1	104.4	121.0	148.2	197.5	285.4	416.8	566.9	703.4
110°	95.0	98.0	104.2	114.0	130.2	156.1	199.9	277.0	390.5	528.2	660.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.2	108.1	114.4	124.2	139.9	163.9	204.5	272.5	373.0	494.5	617.2
115°	120.4	123.8	129.6	139.4	154.9	176.8	212.0	270.7	354.3	453.9	560.5
117.5°	135.3	138.3	143.5	154.5	168.8	190.6	221.9	271.8	343.2	429.4	519.3
120°	144.6	147.4	153.2	164.2	178.5	199.2	229.2	273.6	338.1	416.5	497.7
122.5°	153.3	156.2	162.4	172.9	188.2	208.5	236.2	276.8	334.9	405.9	480.6
125°	165.3	168.7	175.1	186.0	201.6	221.8	247.1	281.7	330.6	392.2	457.9
127.5°	175.4	179.8	186.1	198.2	213.8	233.3	256.1	287.2	328.5	380.3	438.1
130°	181.5	186.6	193.5	205.6	221.2	240.1	262.1	290.8	327.2	373.9	425.7
132.5°	186.5	192.2	200.5	212.6	227.6	246.2	267.6	293.7	326.7	367.8	414.1
135°	194.7	201.1	209.6	221.8	237.3	255.2	274.8	297.8	326.0	360.0	398.6
137.5°	202.4	208.6	217.8	229.8	244.2	261.4	280.0	300.5	324.8	353.3	384.5
140°	207.9	213.7	222.9	234.4	248.8	265.5	282.9	302.4	324.3	349.0	376.2
142.5°	213.0	219.2	227.5	239.0	252.6	268.7	285.6	303.8	323.4	345.4	368.3
145°	221.2	226.4	235.0	244.8	258.0	273.1	288.6	304.7	321.9	340.4	358.8
147.5°	229.4	234.6	242.1	251.5	262.8	276.5	290.4	304.7	319.8	335.6	351.1
150°	235.0	239.6	247.1	255.2	265.5	278.8	290.8	304.7	317.9	332.3	345.6
152.5°	240.5	245.2	251.8	258.8	268.7	280.1	291.9	303.4	315.7	328.7	340.5
155°	249.4	252.9	258.6	265.0	273.1	282.9	292.1	301.8	311.6	323.2	333.0
157.5°	257.0	259.7	264.9	270.2	276.5	284.3	292.7	299.8	308.0	316.9	324.9
160°	262.1	264.4	269.0	273.1	278.8	285.7	292.7	298.9	305.3	312.8	320.2
162.5°	266.2	268.1	271.8	275.3	280.1	286.2	292.2	297.1	302.6	308.6	314.8
165°	271.9	273.1	275.9	278.2	282.3	286.8	290.8	294.4	298.4	303.0	307.6
167.5°	276.5	277.0	279.2	280.8	283.4	286.7	289.9	291.5	294.2	297.6	301.3
170°	278.8	279.3	281.0	282.3	283.4	286.3	288.6	289.7	291.4	294.4	297.2
172.5°	281.0	281.2	282.5	283.2	283.9	286.3	288.1	288.3	289.1	291.1	293.6
175°	283.4	282.9	284.0	284.0	284.6	285.7	286.8	286.3	286.3	287.4	288.6
177.5°	284.6	284.1	284.6	284.6	284.6	285.0	285.9	285.0	284.6	285.0	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6



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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	22.1	21.7	22.3	21.7	21.2	22.4
90°	14.9	15.6	16.7	16.2	16.7	17.3	16.7
92.5°	38.5	34.0	31.0	30.0	28.2	28.8	27.8
95°	140.6	110.0	89.3	78.4	73.1	69.1	66.9
97.5°	414.0	339.7	270.8	228.3	202.4	186.8	181.9
100°	632.5	565.0	483.2	425.1	383.0	360.6	361.1
102.5°	731.5	692.3	640.4	595.1	561.8	543.0	529.8
105°	806.4	817.4	802.3	775.9	754.0	735.6	732.7
107.5°	797.0	847.4	867.9	868.4	861.0	854.7	849.5
110°	766.1	838.7	879.0	895.1	899.7	898.6	897.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	725.5	806.9	858.7	888.2	902.5	906.9	907.1
115°	660.7	745.4	808.1	851.3	876.7	888.2	891.1
117.5°	605.8	681.9	745.6	790.6	819.6	836.3	840.1
120°	575.4	644.5	702.8	748.2	780.5	794.3	797.8
122.5°	551.0	615.0	669.0	709.5	738.5	753.8	758.1
125°	520.7	576.0	622.1	658.9	684.3	698.7	702.8
127.5°	494.1	544.0	585.9	618.7	640.4	653.4	657.1
130°	477.5	524.1	563.3	593.9	614.6	626.7	631.3
132.5°	461.8	505.2	542.6	571.3	592.0	602.7	605.9
135°	439.5	477.0	509.8	538.0	555.2	565.6	569.7
137.5°	418.0	450.2	478.7	502.4	519.9	528.7	531.3
140°	405.5	433.1	457.9	479.8	495.9	505.1	504.5
142.5°	393.5	417.5	439.0	457.7	472.0	480.3	479.7
145°	377.9	396.3	413.0	427.4	439.5	444.1	445.2
147.5°	366.2	381.1	392.9	403.8	412.0	416.5	416.9
150°	358.8	370.9	381.9	390.5	396.9	400.3	400.3
152.5°	351.9	362.6	371.7	378.5	384.5	386.5	386.5
155°	342.1	350.8	357.7	362.8	367.5	368.6	369.2
157.5°	332.5	339.3	344.7	349.2	352.6	353.6	353.5
160°	326.6	332.3	336.4	340.4	343.9	343.9	343.3
162.5°	320.1	325.5	329.0	331.6	334.7	334.7	334.1
165°	311.0	315.1	317.9	320.2	322.6	321.9	321.9
167.5°	304.0	306.3	308.4	309.4	311.0	310.4	310.4
170°	298.9	301.2	302.4	303.0	304.2	303.6	303.6
172.5°	294.8	296.6	297.3	297.4	298.6	297.6	297.1
175°	289.1	290.3	290.3	290.3	290.8	290.3	289.7
177.5°	285.9	286.4	286.4	285.9	286.4	285.5	285.5
180°	284.6	284.6	284.6	284.6	284.6	284.6	284.6

(END OF REPORT)