

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: P332957-830

Luminaire Tested: **SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332957-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5322.1 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

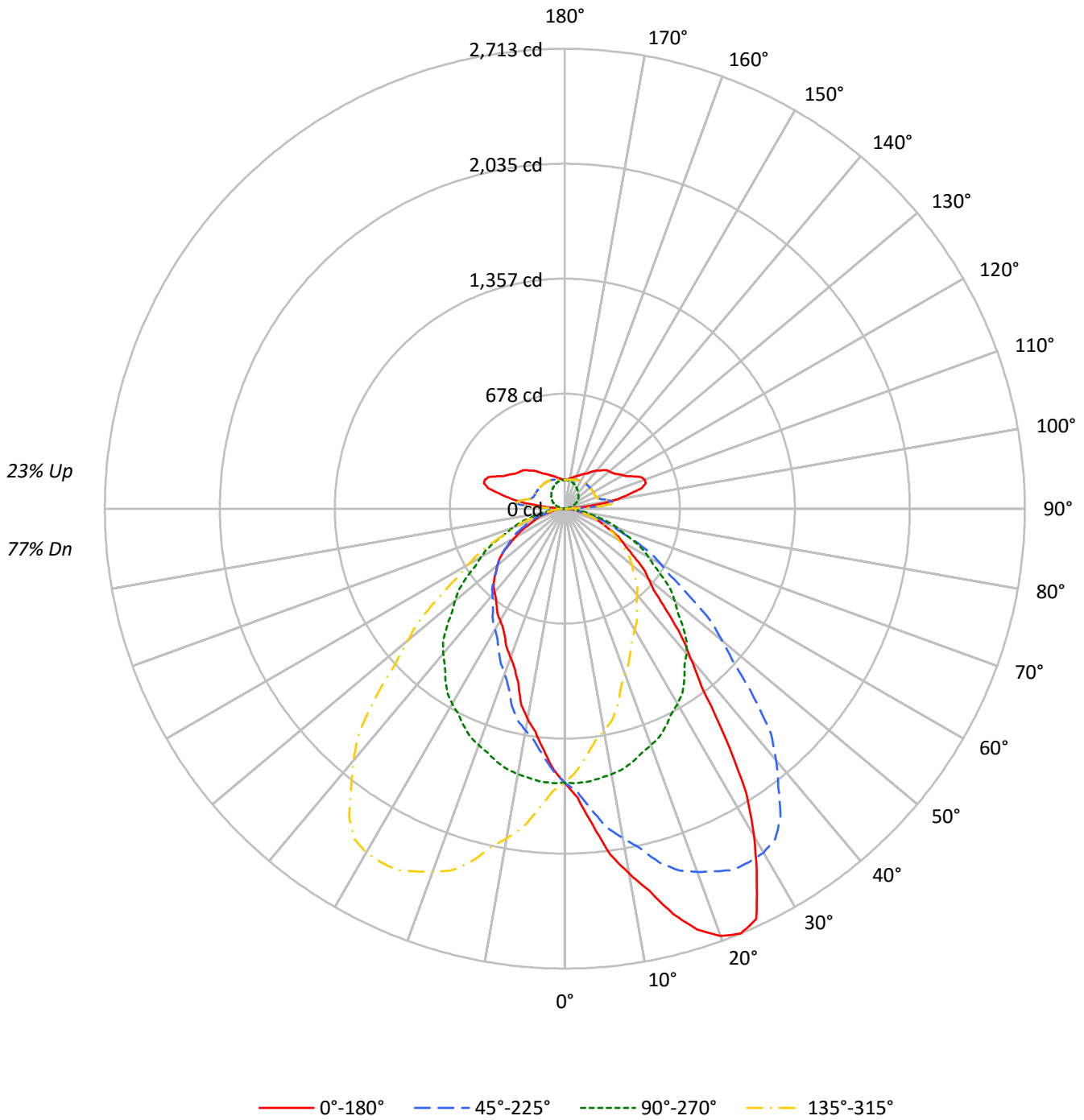
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	105	100	97	93	100	96	92	89	87	85	82	80	78	76	73	71	70	66
2	96	88	82	77	91	85	79	75	77	73	69	71	67	64	65	62	60	57
3	88	78	71	65	84	75	69	63	69	64	59	63	59	55	58	55	52	49
4	81	70	62	56	77	67	60	54	62	56	51	57	52	48	52	48	45	42
5	74	63	55	49	71	60	53	47	56	49	45	51	46	42	47	43	40	37
6	69	57	48	43	66	55	47	42	50	44	39	47	41	37	43	39	35	33
7	64	51	43	38	61	50	42	37	46	40	35	43	37	33	40	35	32	29
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	32	28	26
9	56	43	36	30	53	42	35	30	39	33	28	36	31	27	34	29	26	24
10	52	40	32	28	50	38	32	27	36	30	26	34	28	25	31	27	24	22

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

	0°	90°	180°	270°
0°	13056	13056	13056	13056
5°	15144	13095	11574	13095
10°	17915	13038	10330	13038
15°	20695	12918	8877	12918
20°	23040	12752	8027	12752
25°	23785	12588	7452	12588
30°	20821	12392	7106	12392
35°	16208	12098	6897	12098
40°	12154	11763	6785	11763
45°	9597	11226	6725	11226
50°	8102	10605	6531	10605
55°	7061	9923	6180	9923
60°	6353	9216	5470	9216
65°	5601	8451	4705	8451
70°	5044	7659	4244	7659
75°	4226	6787	3618	6787
80°	3575	5783	3394	5783
85°	3020	4520	3020	4520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.7	2.9
10°-20°	472.7	8.9
20°-30°	739.3	13.9
30°-40°	821.9	15.4
40°-50°	729.2	13.7
50°-60°	568.2	10.7
60°-70°	372.0	7.0
70°-80°	182.9	3.4
80°-90°	46.1	0.9
90°-100°	122.5	2.3
100°-110°	254.9	4.8
110°-120°	228.3	4.3
120°-130°	192.0	3.6
130°-140°	160.1	3.0
140°-150°	122.3	2.3
150°-160°	86.0	1.6
160°-170°	50.6	1.0
170°-180°	16.5	0.3
0°-30°	1368.7	25.7
0°-40°	2190.5	41.2
0°-60°	3487.9	65.5
0°-90°	4088.9	76.8
90°-120°	605.7	11.4
90°-150°	1080.2	20.3
90°-180°	1233.0	23.2
0°-180°	5322.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1617	1617	1617	1617	1617	
5°	1869	1616	1428	1616	1869	189
15°	2476	1546	1062	1546	2476	704
25°	2670	1413	837	1413	2670	1185
35°	1645	1228	700	1228	1645	1031
45°	841	983	589	983	841	666
55°	502	705	439	705	502	456
65°	293	442	246	442	293	295
75°	136	218	116	218	136	149
85°	33	49	33	49	33	37
90°	7	0	7	0	7	7
95°	81	11	81	11	81	126
105°	469	39	469	39	469	463
115°	450	69	450	69	450	447
125°	359	96	359	96	359	326
135°	321	114	321	114	321	248
145°	262	131	262	131	262	166
155°	220	149	220	149	220	102
165°	192	162	192	162	192	55
175°	173	169	173	169	173	17
180°	170	170	170	170	170	



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1705.8	1710.5	1705.8	1705.3	1700.2	1698.6	1696.5	1689.7	1677.2	1669.9	1671.4
5°	1868.8	1885.0	1875.9	1874.6	1860.3	1846.0	1836.8	1816.0	1793.8	1778.9	1766.4
7.5°	2057.2	2066.5	2060.9	2051.7	2028.5	2015.3	1994.2	1966.7	1927.0	1896.6	1868.9
10°	2185.4	2193.2	2190.7	2173.7	2156.7	2122.2	2102.6	2064.3	2014.0	1974.3	1937.1
12.5°	2311.6	2319.9	2297.0	2297.7	2265.7	2238.4	2207.4	2159.1	2101.1	2049.8	2003.4
15°	2476.1	2465.6	2465.6	2452.6	2416.7	2379.0	2347.0	2296.2	2223.2	2161.9	2097.4
17.5°	2604.8	2608.4	2603.1	2572.3	2544.2	2505.1	2446.6	2387.3	2319.5	2237.3	2171.3
20°	2681.9	2681.9	2676.1	2655.2	2618.8	2577.0	2513.9	2449.3	2363.3	2280.6	2206.3
22.5°	2713.2	2715.3	2708.4	2691.1	2658.3	2617.6	2563.8	2498.3	2409.7	2316.5	2224.5
25°	2670.2	2682.6	2683.9	2679.3	2669.6	2644.8	2598.5	2531.4	2451.9	2350.9	2251.8
27.5°	2451.6	2467.2	2480.9	2503.4	2533.4	2549.0	2551.1	2517.0	2447.6	2350.4	2250.7
30°	2233.6	2246.6	2289.1	2344.4	2387.4	2426.5	2460.4	2469.5	2430.4	2343.1	2238.2
32.5°	1991.8	2009.5	2051.8	2111.4	2183.0	2249.3	2325.3	2364.2	2363.1	2310.7	2213.7
35°	1644.6	1657.6	1696.8	1759.3	1845.3	1943.7	2064.3	2158.0	2221.9	2217.3	2158.0
37.5°	1326.3	1341.0	1380.5	1432.5	1515.9	1637.7	1754.4	1883.6	2001.7	2068.0	2048.1
40°	1153.3	1154.0	1192.4	1245.9	1324.0	1430.2	1557.3	1700.6	1832.2	1939.8	1960.6
42.5°	1016.7	1016.8	1042.3	1099.9	1156.2	1256.1	1377.4	1519.8	1673.8	1798.0	1853.2
45°	840.6	846.4	867.2	901.8	946.1	1030.8	1127.8	1260.2	1432.9	1580.1	1672.0
47.5°	711.8	720.4	733.7	761.9	797.1	853.6	933.9	1052.7	1193.2	1355.2	1485.9
50°	645.1	646.4	663.3	678.9	709.5	754.5	824.9	924.0	1052.9	1208.7	1354.0
52.5°	587.8	587.5	597.7	617.5	642.3	677.4	734.2	824.3	938.8	1078.4	1228.3
55°	501.7	505.0	512.8	528.4	547.3	572.1	617.1	684.9	774.8	894.0	1030.2
57.5°	436.3	438.0	444.1	450.7	468.1	486.1	519.8	566.8	642.7	740.4	867.2
60°	393.5	394.2	396.2	406.0	419.6	436.6	459.4	499.1	563.0	652.2	752.6
62.5°	351.9	353.0	356.0	363.2	373.7	385.5	409.3	441.3	494.2	570.4	660.8
65°	293.2	293.9	298.4	301.0	309.5	319.9	337.5	359.0	395.5	459.4	527.8
67.5°	245.0	245.0	245.2	248.7	254.7	261.6	272.1	289.3	316.8	356.0	416.3
70°	213.7	213.7	215.0	217.0	220.3	226.1	232.0	245.0	265.2	297.1	343.4
72.5°	184.5	185.0	186.3	186.7	188.4	193.2	197.6	205.9	220.9	245.0	282.4
75°	135.5	137.5	140.7	143.4	146.6	146.0	150.5	155.7	160.3	174.7	196.1
77.5°	100.9	99.8	100.2	102.5	102.8	103.5	106.7	110.7	114.1	120.9	128.7
80°	76.9	76.9	78.8	79.5	78.8	79.5	82.8	84.7	86.1	88.6	95.8
82.5°	58.2	59.2	58.5	59.2	59.6	60.2	63.0	63.3	64.7	65.7	68.7
85°	32.6	33.3	33.8	32.6	32.6	32.6	33.8	34.5	35.8	35.2	36.5
87.5°	12.9	12.3	12.9	12.9	13.3	12.8	13.3	14.2	13.1	13.7	13.6
90°	7.0	7.0	7.4	7.0	6.7	6.7	6.3	6.0	5.7	6.0	5.4
92.5°	25.6	25.6	26.8	28.6	32.5	39.2	49.2	65.4	88.0	105.7	92.5
95°	81.2	85.6	91.6	101.9	118.3	150.5	195.2	246.9	279.2	271.5	204.9
97.5°	217.3	224.2	234.2	254.2	278.1	312.9	345.5	364.7	350.7	286.0	191.7
100°	305.5	308.1	318.1	338.5	367.4	392.1	408.4	401.7	353.1	267.9	173.9
102.5°	382.2	384.4	394.9	409.6	427.3	437.6	432.9	399.9	333.1	245.2	161.9
105°	468.7	470.7	475.3	478.1	477.4	463.7	430.7	373.1	296.8	218.5	151.6
107.5°	500.8	499.9	496.6	489.0	472.6	442.8	396.4	335.1	267.5	203.6	149.7
110°	501.3	498.3	492.4	478.3	454.7	418.1	369.8	312.2	252.9	198.5	150.2



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	485.6	480.8	472.4	455.4	428.6	391.9	346.3	295.3	244.6	196.1	151.8
115°	450.1	447.4	436.7	416.7	390.4	358.4	319.4	278.5	236.9	194.9	154.9
117.5°	414.0	411.9	401.1	384.4	361.9	334.8	304.2	270.2	233.4	194.5	158.2
120°	393.8	390.1	381.4	366.7	347.8	324.1	297.5	266.5	231.5	194.5	160.6
122.5°	377.8	374.1	366.7	354.2	338.2	317.4	293.2	263.3	229.4	194.3	163.0
125°	359.1	357.1	350.8	341.1	327.8	309.4	286.4	257.9	225.8	193.9	166.5
127.5°	348.2	346.2	340.8	332.2	318.9	301.5	278.5	251.2	221.1	193.1	169.5
130°	341.8	339.8	334.4	326.1	312.5	294.8	272.2	245.8	218.2	192.8	171.5
132.5°	334.6	332.6	327.5	318.1	304.7	287.1	264.9	240.3	215.6	192.7	173.4
135°	321.1	319.1	313.8	304.4	291.2	274.5	254.2	232.5	211.5	192.2	176.3
137.5°	304.4	302.1	297.7	288.5	276.0	261.0	243.8	225.6	208.1	192.2	177.9
140°	292.5	289.8	285.1	277.9	266.2	252.1	237.1	221.5	206.2	191.9	179.2
142.5°	279.7	277.9	273.7	266.9	256.6	244.4	231.6	217.8	204.6	191.9	180.3
145°	262.1	260.5	257.1	251.5	243.2	233.8	223.9	212.5	201.9	191.2	180.9
147.5°	246.7	246.0	243.6	238.7	232.5	225.2	217.2	208.2	199.4	190.0	181.3
150°	237.8	237.5	235.5	231.2	225.8	219.9	213.2	205.6	197.6	189.2	181.3
152.5°	229.9	229.5	228.3	224.8	220.3	215.4	209.2	202.6	195.4	187.8	180.7
155°	219.5	219.5	218.5	215.8	212.5	208.5	203.5	198.2	192.2	185.9	179.9
157.5°	210.5	210.5	209.9	207.8	205.4	202.2	197.9	193.5	189.0	183.8	179.0
160°	204.9	204.9	204.5	202.6	200.6	197.8	194.2	190.6	186.5	182.2	178.2
162.5°	199.5	199.8	199.4	197.5	196.0	193.6	190.8	187.7	184.5	180.6	177.4
165°	191.5	191.9	192.2	190.9	189.5	187.8	185.6	183.5	180.9	178.2	175.9
167.5°	185.2	185.5	185.6	184.6	184.0	183.0	181.2	179.6	177.7	175.8	174.3
170°	181.3	181.3	181.5	181.3	180.6	179.6	178.2	177.2	175.6	174.2	173.2
172.5°	177.2	177.8	178.0	177.8	177.4	176.6	175.8	175.1	173.7	172.6	172.2
175°	172.6	173.2	173.9	173.2	173.2	173.2	172.6	172.2	171.5	170.9	170.9
177.5°	169.8	170.3	170.9	170.6	170.9	170.6	170.6	170.3	170.1	169.8	169.8
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1666.2	1659.0	1655.3	1646.9	1637.0	1631.8	1627.1	1620.3	1611.5	1602.1	1595.3
5°	1750.8	1735.1	1715.6	1692.1	1671.3	1651.1	1633.5	1615.9	1595.7	1574.9	1554.1
7.5°	1837.6	1806.9	1773.6	1735.1	1697.8	1663.8	1632.5	1602.5	1568.6	1538.2	1510.6
10°	1898.1	1856.3	1810.1	1761.2	1712.3	1670.0	1628.3	1590.5	1548.8	1511.6	1480.4
12.5°	1947.1	1898.1	1842.4	1781.6	1722.8	1671.6	1623.6	1574.3	1526.9	1486.7	1444.9
15°	2028.4	1961.2	1886.3	1813.4	1737.1	1667.4	1602.9	1545.6	1491.5	1434.8	1395.1
17.5°	2084.2	2004.7	1913.5	1825.9	1735.8	1653.6	1579.1	1510.9	1448.5	1390.6	1343.3
20°	2117.6	2029.7	1928.7	1829.0	1728.0	1640.0	1559.9	1484.3	1419.8	1357.3	1308.3
22.5°	2136.4	2039.1	1928.7	1824.3	1719.7	1624.4	1536.4	1457.7	1387.5	1324.9	1270.8
25°	2142.4	2038.2	1925.4	1805.5	1690.8	1589.9	1498.6	1413.2	1335.1	1272.5	1215.2
27.5°	2134.1	2011.3	1895.8	1772.8	1654.5	1548.0	1452.3	1362.6	1284.3	1217.2	1158.4
30°	2121.6	1989.9	1866.1	1738.4	1618.5	1516.3	1415.2	1329.3	1247.7	1178.1	1118.8
32.5°	2094.4	1963.9	1830.7	1699.9	1578.4	1473.0	1377.1	1290.6	1210.8	1139.5	1076.6
35°	2040.8	1908.5	1763.9	1629.7	1510.3	1400.9	1311.0	1227.6	1151.3	1075.2	1008.6
37.5°	1970.0	1834.8	1691.0	1544.0	1424.7	1321.3	1238.8	1160.5	1086.1	1016.4	942.8
40°	1903.3	1780.1	1631.5	1485.6	1363.1	1263.4	1187.2	1116.2	1041.2	972.1	898.5
42.5°	1822.5	1717.6	1567.4	1421.0	1300.0	1204.0	1132.9	1063.5	995.3	928.4	851.6
45°	1687.6	1608.1	1467.4	1326.6	1204.8	1109.7	1044.5	983.3	923.3	859.4	787.1
47.5°	1533.0	1479.2	1357.7	1213.6	1100.9	1015.3	952.3	902.3	851.6	787.8	724.3
50°	1425.7	1391.1	1273.8	1142.3	1034.7	955.8	891.4	844.4	802.1	740.8	684.2
52.5°	1311.0	1292.6	1193.5	1067.7	963.8	886.6	831.4	789.2	746.3	695.5	642.4
55°	1136.3	1146.1	1062.1	953.3	855.5	790.4	740.2	705.0	668.5	625.6	584.5
57.5°	957.8	993.5	937.1	841.6	750.0	689.8	652.0	622.4	591.7	556.1	521.0
60°	850.9	880.9	849.0	765.0	684.9	628.8	593.6	570.8	540.2	507.6	480.9
62.5°	746.7	778.7	759.9	692.0	617.6	569.4	538.4	517.1	494.3	465.9	438.1
65°	615.8	636.6	627.5	580.6	527.8	486.7	458.1	442.4	421.6	400.8	376.0
67.5°	471.6	511.9	506.5	481.6	436.0	404.0	385.2	371.4	352.4	336.9	320.1
70°	387.7	424.8	424.1	404.0	379.2	349.2	336.2	324.5	307.6	292.6	278.9
72.5°	317.4	351.4	356.4	340.9	324.0	301.3	288.8	280.7	264.3	254.0	242.9
75°	222.2	246.9	253.4	253.4	245.6	233.9	222.8	217.6	205.9	196.8	190.3
77.5°	145.7	161.4	171.5	173.8	175.0	171.1	162.0	158.3	149.3	146.1	139.9
80°	102.9	113.4	125.1	129.0	132.2	131.0	127.1	124.4	116.0	112.7	110.1
82.5°	71.2	76.9	86.5	95.1	94.3	97.6	94.3	92.2	85.8	84.5	82.0
85°	37.1	37.8	39.1	45.0	48.3	49.5	50.1	48.8	46.9	46.9	42.3
87.5°	13.5	12.9	13.6	13.6	14.0	16.0	17.4	17.8	16.4	15.0	13.5
90°	4.6	4.6	2.6	2.6	2.4	2.0	1.0	0.4	1.0	2.0	2.4
92.5°	67.3	41.5	24.5	17.6	12.7	8.7	5.6	3.8	5.6	8.7	12.7
95°	125.3	70.6	41.7	27.6	19.7	15.4	12.0	11.0	12.0	15.4	19.7
97.5°	112.6	67.5	45.1	33.5	26.6	22.6	19.7	19.7	19.7	22.6	26.6
100°	105.9	68.3	48.6	38.0	31.7	27.6	25.4	25.4	25.4	27.6	31.7
102.5°	104.1	71.0	53.2	43.1	36.9	33.3	31.2	30.6	31.2	33.3	36.9
105°	104.9	77.3	61.3	51.7	45.6	41.7	40.0	39.0	40.0	41.7	45.6
107.5°	109.9	84.6	70.0	60.5	54.8	50.5	48.8	48.2	48.8	50.5	54.8
110°	113.6	90.3	75.6	66.6	60.6	56.6	55.0	54.3	55.0	56.6	60.6





TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	117.6	95.6	81.4	72.5	66.4	62.8	60.8	60.1	60.8	62.8	66.4
115°	123.9	104.0	90.6	81.6	75.3	71.9	69.7	68.6	69.7	71.9	75.3
117.5°	130.4	112.0	99.3	90.0	84.1	80.4	78.3	77.4	78.3	80.4	84.1
120°	134.9	117.6	104.9	95.6	89.9	86.2	84.0	83.3	84.0	86.2	89.9
122.5°	139.2	122.9	110.3	101.2	95.0	91.6	89.3	88.6	89.3	91.6	95.0
125°	145.5	130.3	118.3	109.0	102.6	99.0	96.9	95.6	96.9	99.0	102.6
127.5°	151.1	137.0	125.5	116.0	109.4	105.3	102.8	101.8	102.8	105.3	109.4
130°	154.6	141.6	130.3	120.6	114.2	109.2	106.6	105.3	106.6	109.2	114.2
132.5°	158.1	145.3	133.9	124.9	118.0	113.3	109.8	108.8	109.8	113.3	118.0
135°	162.6	150.5	139.6	130.9	123.9	118.3	114.9	113.6	114.9	118.3	123.9
137.5°	165.8	154.6	144.3	136.0	128.8	123.4	119.7	118.5	119.7	123.4	128.8
140°	167.9	157.2	147.2	139.2	132.2	126.6	122.9	122.0	122.9	126.6	132.2
142.5°	169.5	159.7	149.9	142.1	135.4	130.1	126.7	125.6	126.7	130.1	135.4
145°	171.3	162.2	153.5	146.3	139.9	135.3	132.0	130.9	132.0	135.3	139.9
147.5°	172.8	164.9	156.7	150.1	144.9	140.2	137.1	136.9	137.1	140.2	144.9
150°	173.5	166.3	158.9	152.6	147.6	143.5	140.9	140.5	140.9	143.5	147.6
152.5°	174.1	167.3	160.8	155.0	150.5	146.8	144.1	144.0	144.1	146.8	150.5
155°	174.6	168.9	163.2	158.3	154.6	151.3	149.2	148.9	149.2	151.3	154.6
157.5°	174.6	170.0	165.2	161.3	158.1	155.5	153.6	153.6	153.6	155.5	158.1
160°	174.6	170.6	166.5	162.9	160.2	157.9	156.6	156.6	156.6	157.9	160.2
162.5°	174.6	171.1	167.4	164.5	162.1	160.0	159.0	159.2	159.0	160.0	162.1
165°	173.9	171.3	168.2	166.3	164.6	162.9	162.2	162.2	162.2	162.9	164.6
167.5°	173.1	171.2	169.0	167.4	166.5	165.2	164.9	165.2	164.9	165.2	166.5
170°	172.6	170.9	169.2	168.2	167.6	166.5	166.3	166.5	166.3	166.5	167.6
172.5°	172.0	170.6	169.5	168.7	168.3	167.6	167.6	167.9	167.6	167.6	168.3
175°	171.3	170.2	169.6	169.6	169.2	168.9	168.9	169.2	168.9	168.9	169.2
177.5°	170.3	169.8	169.6	169.6	169.6	169.3	169.6	169.8	169.6	169.3	169.6
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1588.0	1582.8	1576.0	1568.2	1558.9	1550.5	1546.9	1550.0	1551.5	1547.4	1546.9
5°	1539.7	1523.4	1510.3	1490.8	1475.2	1462.2	1453.0	1449.2	1450.4	1440.0	1437.4
7.5°	1485.4	1466.0	1444.7	1421.4	1399.9	1380.7	1370.6	1365.2	1354.2	1349.4	1341.5
10°	1450.4	1424.4	1403.5	1376.1	1351.4	1328.6	1317.5	1308.3	1297.3	1292.1	1281.0
12.5°	1414.5	1384.2	1361.3	1332.8	1307.6	1280.1	1269.5	1252.6	1235.3	1224.4	1210.1
15°	1363.8	1327.3	1299.3	1265.4	1235.4	1204.1	1176.1	1144.8	1133.1	1108.3	1094.0
17.5°	1304.5	1267.4	1232.8	1187.3	1141.0	1102.2	1072.3	1042.4	1024.4	1008.6	1001.4
20°	1265.4	1231.5	1183.3	1130.5	1079.0	1036.0	1011.9	992.4	972.8	961.8	953.9
22.5°	1228.3	1185.1	1129.1	1072.1	1020.7	987.0	966.6	946.5	930.6	920.0	909.6
25°	1166.3	1109.7	1050.4	985.2	950.0	920.7	898.5	882.2	872.5	858.8	853.6
27.5°	1102.6	1034.0	968.6	924.7	888.1	861.3	842.0	829.7	817.4	808.6	801.8
30°	1053.6	983.9	925.3	883.5	846.4	824.3	808.6	794.3	784.5	777.3	772.1
32.5°	1005.1	935.4	886.2	841.3	812.0	790.4	773.7	763.0	755.4	746.0	742.9
35°	935.0	873.1	830.1	789.8	759.8	740.2	727.2	716.0	709.5	707.0	705.0
37.5°	867.6	817.0	770.7	737.6	710.9	695.5	680.1	674.7	670.2	665.5	667.6
40°	824.9	777.3	736.3	701.1	679.6	662.7	653.6	647.1	643.1	643.1	643.1
42.5°	787.9	741.4	701.3	669.9	648.3	634.0	623.9	618.3	617.1	616.5	619.6
45°	730.5	687.4	647.1	620.9	602.8	588.3	582.5	578.0	578.0	580.6	581.2
47.5°	673.4	633.2	600.8	571.6	554.9	545.9	540.8	538.5	538.8	541.3	544.3
50°	638.6	598.8	566.8	540.8	525.2	516.7	512.2	510.9	512.2	512.2	516.7
52.5°	600.5	565.0	533.5	511.6	493.9	486.0	483.4	481.6	482.4	484.6	486.4
55°	544.7	512.8	482.9	461.9	448.9	443.7	437.9	438.5	437.2	438.5	438.5
57.5°	488.8	460.1	432.3	415.8	404.3	396.7	390.3	392.1	390.2	389.9	388.9
60°	452.9	421.6	399.4	384.5	371.4	364.9	359.0	360.3	358.4	357.0	354.5
62.5°	413.8	387.7	366.6	352.1	341.7	334.1	328.3	327.0	322.4	318.0	312.3
65°	357.0	335.5	316.7	303.0	293.2	287.4	282.8	278.9	269.1	258.6	253.4
67.5°	302.0	286.4	268.8	257.2	249.3	241.6	232.9	226.2	217.1	211.4	208.1
70°	266.5	251.5	236.5	225.5	217.0	209.8	200.0	195.5	189.0	186.3	183.1
72.5°	232.6	218.7	204.7	194.7	185.7	180.1	172.4	167.9	164.9	163.9	160.7
75°	181.2	170.0	159.7	150.5	143.4	139.4	136.2	132.9	131.6	125.7	122.5
77.5°	132.1	124.9	118.3	111.8	106.7	104.2	97.8	94.1	91.9	89.2	88.5
80°	102.9	97.7	91.2	87.3	80.1	77.6	74.9	74.3	73.6	73.0	72.3
82.5°	77.4	72.2	65.7	63.3	61.4	59.9	58.2	57.6	56.9	57.3	57.2
85°	39.1	36.5	36.5	35.8	35.2	34.5	33.8	33.8	33.3	33.8	33.3
87.5°	13.6	13.0	13.5	12.4	13.1	13.2	12.6	12.6	13.3	12.3	12.3
90°	2.6	2.6	4.6	4.6	5.4	6.0	5.7	6.0	6.3	6.7	6.7
92.5°	17.6	24.5	41.5	67.3	92.5	105.7	88.0	65.4	49.2	39.2	32.5
95°	27.6	41.7	70.6	125.3	204.9	271.5	279.2	246.9	195.2	150.5	118.3
97.5°	33.5	45.1	67.5	112.6	191.7	286.0	350.7	364.7	345.5	312.9	278.1
100°	38.0	48.6	68.3	105.9	173.9	267.9	353.1	401.7	408.4	392.1	367.4
102.5°	43.1	53.2	71.0	104.1	161.9	245.2	333.1	399.9	432.9	437.6	427.3
105°	51.7	61.3	77.3	104.9	151.6	218.5	296.8	373.1	430.7	463.7	477.4
107.5°	60.5	70.0	84.6	109.9	149.7	203.6	267.5	335.1	396.4	442.8	472.6
110°	66.6	75.6	90.3	113.6	150.2	198.5	252.9	312.2	369.8	418.1	454.7



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	72.5	81.4	95.6	117.6	151.8	196.1	244.6	295.3	346.3	391.9	428.6
115°	81.6	90.6	104.0	123.9	154.9	194.9	236.9	278.5	319.4	358.4	390.4
117.5°	90.0	99.3	112.0	130.4	158.2	194.5	233.4	270.2	304.2	334.8	361.9
120°	95.6	104.9	117.6	134.9	160.6	194.5	231.5	266.5	297.5	324.1	347.8
122.5°	101.2	110.3	122.9	139.2	163.0	194.3	229.4	263.3	293.2	317.4	338.2
125°	109.0	118.3	130.3	145.5	166.5	193.9	225.8	257.9	286.4	309.4	327.8
127.5°	116.0	125.5	137.0	151.1	169.5	193.1	221.1	251.2	278.5	301.5	318.9
130°	120.6	130.3	141.6	154.6	171.5	192.8	218.2	245.8	272.2	294.8	312.5
132.5°	124.9	133.9	145.3	158.1	173.4	192.7	215.6	240.3	264.9	287.1	304.7
135°	130.9	139.6	150.5	162.6	176.3	192.2	211.5	232.5	254.2	274.5	291.2
137.5°	136.0	144.3	154.6	165.8	177.9	192.2	208.1	225.6	243.8	261.0	276.0
140°	139.2	147.2	157.2	167.9	179.2	191.9	206.2	221.5	237.1	252.1	266.2
142.5°	142.1	149.9	159.7	169.5	180.3	191.9	204.6	217.8	231.6	244.4	256.6
145°	146.3	153.5	162.2	171.3	180.9	191.2	201.9	212.5	223.9	233.8	243.2
147.5°	150.1	156.7	164.9	172.8	181.3	190.0	199.4	208.2	217.2	225.2	232.5
150°	152.6	158.9	166.3	173.5	181.3	189.2	197.6	205.6	213.2	219.9	225.8
152.5°	155.0	160.8	167.3	174.1	180.7	187.8	195.4	202.6	209.2	215.4	220.3
155°	158.3	163.2	168.9	174.6	179.9	185.9	192.2	198.2	203.5	208.5	212.5
157.5°	161.3	165.2	170.0	174.6	179.0	183.8	189.0	193.5	197.9	202.2	205.4
160°	162.9	166.5	170.6	174.6	178.2	182.2	186.5	190.6	194.2	197.8	200.6
162.5°	164.5	167.4	171.1	174.6	177.4	180.6	184.5	187.7	190.8	193.6	196.0
165°	166.3	168.2	171.3	173.9	175.9	178.2	180.9	183.5	185.6	187.8	189.5
167.5°	167.4	169.0	171.2	173.1	174.3	175.8	177.7	179.6	181.2	183.0	184.0
170°	168.2	169.2	170.9	172.6	173.2	174.2	175.6	177.2	178.2	179.6	180.6
172.5°	168.7	169.5	170.6	172.0	172.2	172.6	173.7	175.1	175.8	176.6	177.4
175°	169.6	169.6	170.2	171.3	170.9	170.9	171.5	172.2	172.6	173.2	173.2
177.5°	169.6	169.6	169.8	170.3	169.8	169.8	170.1	170.3	170.6	170.6	170.9
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1543.7	1544.7	1541.2	1540.1	1541.2	1544.7	1543.7	1546.9	1547.4	1551.5	1550.0
5°	1432.2	1430.9	1427.6	1428.2	1427.6	1430.9	1432.2	1437.4	1440.0	1450.4	1449.2
7.5°	1336.8	1331.7	1333.1	1327.9	1333.1	1331.7	1336.8	1341.5	1349.4	1354.2	1365.2
10°	1278.4	1271.2	1265.4	1260.2	1265.4	1271.2	1278.4	1281.0	1292.1	1297.3	1308.3
12.5°	1198.6	1192.5	1184.6	1186.2	1184.6	1192.5	1198.6	1210.1	1224.4	1235.3	1252.6
15°	1085.5	1075.7	1060.2	1062.1	1060.2	1075.7	1085.5	1094.0	1108.3	1133.1	1144.8
17.5°	989.8	989.9	982.7	984.4	982.7	989.9	989.8	1001.4	1008.6	1024.4	1042.4
20°	940.3	935.7	936.3	934.3	936.3	935.7	940.3	953.9	961.8	972.8	992.4
22.5°	905.9	900.2	895.7	891.6	895.7	900.2	905.9	909.6	920.0	930.6	946.5
25°	847.7	843.8	837.9	836.6	837.9	843.8	847.7	853.6	858.8	872.5	882.2
27.5°	796.6	795.9	793.5	790.5	793.5	795.9	796.6	801.8	808.6	817.4	829.7
30°	766.9	765.6	764.3	762.3	764.3	765.6	766.9	772.1	777.3	784.5	794.3
32.5°	740.4	739.5	738.2	738.4	738.2	739.5	740.4	742.9	746.0	755.4	763.0
35°	702.4	701.7	700.5	699.8	700.5	701.7	702.4	705.0	707.0	709.5	716.0
37.5°	666.9	668.6	667.9	667.7	667.9	668.6	666.9	667.6	665.5	670.2	674.7
40°	642.4	643.1	644.4	643.8	644.4	643.1	642.4	643.1	643.1	643.1	647.1
42.5°	622.2	622.3	624.1	621.9	624.1	622.3	622.2	619.6	616.5	617.1	618.3
45°	585.8	589.7	589.0	589.0	589.0	589.7	585.8	581.2	580.6	578.0	578.0
47.5°	546.0	549.4	550.4	550.2	550.4	549.4	546.0	544.3	541.3	538.8	538.5
50°	520.0	518.7	520.7	520.0	520.7	518.7	520.0	516.7	512.2	512.2	510.9
52.5°	488.1	488.4	488.3	487.7	488.3	488.4	488.1	486.4	484.6	482.4	481.6
55°	439.1	439.8	438.5	439.1	438.5	439.8	439.1	438.5	438.5	437.2	438.5
57.5°	386.0	382.9	384.2	382.6	384.2	382.9	386.0	388.9	389.9	390.2	392.1
60°	348.0	342.7	341.4	338.8	341.4	342.7	348.0	354.5	357.0	358.4	360.3
62.5°	305.2	301.5	297.1	299.2	297.1	301.5	305.2	312.3	318.0	322.4	327.0
65°	248.3	245.6	243.6	246.3	243.6	245.6	248.3	253.4	258.6	269.1	278.9
67.5°	205.5	204.1	204.1	202.7	204.1	204.1	205.5	208.1	211.4	217.1	226.2
70°	183.1	181.2	181.2	179.8	181.2	181.2	183.1	183.1	186.3	189.0	195.5
72.5°	160.1	158.2	158.7	158.0	158.7	158.2	160.1	160.7	163.9	164.9	167.9
75°	118.6	115.4	115.4	116.0	115.4	115.4	118.6	122.5	125.7	131.6	132.9
77.5°	88.5	87.8	88.8	87.6	88.8	87.8	88.5	88.5	89.2	91.9	94.1
80°	72.3	71.6	71.1	73.0	71.1	71.6	72.3	72.3	73.0	73.6	74.3
82.5°	56.2	56.1	55.9	58.3	55.9	56.1	56.2	57.2	57.3	56.9	57.6
85°	33.8	32.6	33.8	32.6	33.8	32.6	33.8	33.3	33.8	33.3	33.8
87.5°	13.4	12.9	12.3	12.9	12.3	12.9	13.4	12.3	12.3	13.3	12.6
90°	7.0	7.4	7.0	7.0	7.0	7.4	7.0	6.7	6.7	6.3	6.0
92.5°	28.6	26.8	25.6	25.6	25.6	26.8	28.6	32.5	39.2	49.2	65.4
95°	101.9	91.6	85.6	81.2	85.6	91.6	101.9	118.3	150.5	195.2	246.9
97.5°	254.2	234.2	224.2	217.3	224.2	234.2	254.2	278.1	312.9	345.5	364.7
100°	338.5	318.1	308.1	305.5	308.1	318.1	338.5	367.4	392.1	408.4	401.7
102.5°	409.6	394.9	384.4	382.2	384.4	394.9	409.6	427.3	437.6	432.9	399.9
105°	478.1	475.3	470.7	468.7	470.7	475.3	478.1	477.4	463.7	430.7	373.1
107.5°	489.0	496.6	499.9	500.8	499.9	496.6	489.0	472.6	442.8	396.4	335.1
110°	478.3	492.4	498.3	501.3	498.3	492.4	478.3	454.7	418.1	369.8	312.2



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	455.4	472.4	480.8	485.6	480.8	472.4	455.4	428.6	391.9	346.3	295.3
115°	416.7	436.7	447.4	450.1	447.4	436.7	416.7	390.4	358.4	319.4	278.5
117.5°	384.4	401.1	411.9	414.0	411.9	401.1	384.4	361.9	334.8	304.2	270.2
120°	366.7	381.4	390.1	393.8	390.1	381.4	366.7	347.8	324.1	297.5	266.5
122.5°	354.2	366.7	374.1	377.8	374.1	366.7	354.2	338.2	317.4	293.2	263.3
125°	341.1	350.8	357.1	359.1	357.1	350.8	341.1	327.8	309.4	286.4	257.9
127.5°	332.2	340.8	346.2	348.2	346.2	340.8	332.2	318.9	301.5	278.5	251.2
130°	326.1	334.4	339.8	341.8	339.8	334.4	326.1	312.5	294.8	272.2	245.8
132.5°	318.1	327.5	332.6	334.6	332.6	327.5	318.1	304.7	287.1	264.9	240.3
135°	304.4	313.8	319.1	321.1	319.1	313.8	304.4	291.2	274.5	254.2	232.5
137.5°	288.5	297.7	302.1	304.4	302.1	297.7	288.5	276.0	261.0	243.8	225.6
140°	277.9	285.1	289.8	292.5	289.8	285.1	277.9	266.2	252.1	237.1	221.5
142.5°	266.9	273.7	277.9	279.7	277.9	273.7	266.9	256.6	244.4	231.6	217.8
145°	251.5	257.1	260.5	262.1	260.5	257.1	251.5	243.2	233.8	223.9	212.5
147.5°	238.7	243.6	246.0	246.7	246.0	243.6	238.7	232.5	225.2	217.2	208.2
150°	231.2	235.5	237.5	237.8	237.5	235.5	231.2	225.8	219.9	213.2	205.6
152.5°	224.8	228.3	229.5	229.9	229.5	228.3	224.8	220.3	215.4	209.2	202.6
155°	215.8	218.5	219.5	219.5	219.5	218.5	215.8	212.5	208.5	203.5	198.2
157.5°	207.8	209.9	210.5	210.5	210.5	209.9	207.8	205.4	202.2	197.9	193.5
160°	202.6	204.5	204.9	204.9	204.9	204.5	202.6	200.6	197.8	194.2	190.6
162.5°	197.5	199.4	199.8	199.5	199.8	199.4	197.5	196.0	193.6	190.8	187.7
165°	190.9	192.2	191.9	191.5	191.9	192.2	190.9	189.5	187.8	185.6	183.5
167.5°	184.6	185.6	185.5	185.2	185.5	185.6	184.6	184.0	183.0	181.2	179.6
170°	181.3	181.5	181.3	181.3	181.3	181.5	181.3	180.6	179.6	178.2	177.2
172.5°	177.8	178.0	177.8	177.2	177.8	178.0	177.8	177.4	176.6	175.8	175.1
175°	173.2	173.9	173.2	172.6	173.2	173.9	173.2	173.2	173.2	172.6	172.2
177.5°	170.6	170.9	170.3	169.8	170.3	170.9	170.6	170.9	170.6	170.6	170.3
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1546.9	1550.5	1558.9	1568.2	1576.0	1582.8	1588.0	1595.3	1602.1	1611.5	1620.3
5°	1453.0	1462.2	1475.2	1490.8	1510.3	1523.4	1539.7	1554.1	1574.9	1595.7	1615.9
7.5°	1370.6	1380.7	1399.9	1421.4	1444.7	1466.0	1485.4	1510.6	1538.2	1568.6	1602.5
10°	1317.5	1328.6	1351.4	1376.1	1403.5	1424.4	1450.4	1480.4	1511.6	1548.8	1590.5
12.5°	1269.5	1280.1	1307.6	1332.8	1361.3	1384.2	1414.5	1444.9	1486.7	1526.9	1574.3
15°	1176.1	1204.1	1235.4	1265.4	1299.3	1327.3	1363.8	1395.1	1434.8	1491.5	1545.6
17.5°	1072.3	1102.2	1141.0	1187.3	1232.8	1267.4	1304.5	1343.3	1390.6	1448.5	1510.9
20°	1011.9	1036.0	1079.0	1130.5	1183.3	1231.5	1265.4	1308.3	1357.3	1419.8	1484.3
22.5°	966.6	987.0	1020.7	1072.1	1129.1	1185.1	1228.3	1270.8	1324.9	1387.5	1457.7
25°	898.5	920.7	950.0	985.2	1050.4	1109.7	1166.3	1215.2	1272.5	1335.1	1413.2
27.5°	842.0	861.3	888.1	924.7	968.6	1034.0	1102.6	1158.4	1217.2	1284.3	1362.6
30°	808.6	824.3	846.4	883.5	925.3	983.9	1053.6	1118.8	1178.1	1247.7	1329.3
32.5°	773.7	790.4	812.0	841.3	886.2	935.4	1005.1	1076.6	1139.5	1210.8	1290.6
35°	727.2	740.2	759.8	789.8	830.1	873.1	935.0	1008.6	1075.2	1151.3	1227.6
37.5°	680.1	695.5	710.9	737.6	770.7	817.0	867.6	942.8	1016.4	1086.1	1160.5
40°	653.6	662.7	679.6	701.1	736.3	777.3	824.9	898.5	972.1	1041.2	1116.2
42.5°	623.9	634.0	648.3	669.9	701.3	741.4	787.9	851.6	928.4	995.3	1063.5
45°	582.5	588.3	602.8	620.9	647.1	687.4	730.5	787.1	859.4	923.3	983.3
47.5°	540.8	545.9	554.9	571.6	600.8	633.2	673.4	724.3	787.8	851.6	902.3
50°	512.2	516.7	525.2	540.8	566.8	598.8	638.6	684.2	740.8	802.1	844.4
52.5°	483.4	486.0	493.9	511.6	533.5	565.0	600.5	642.4	695.5	746.3	789.2
55°	437.9	443.7	448.9	461.9	482.9	512.8	544.7	584.5	625.6	668.5	705.0
57.5°	390.3	396.7	404.3	415.8	432.3	460.1	488.8	521.0	556.1	591.7	622.4
60°	359.0	364.9	371.4	384.5	399.4	421.6	452.9	480.9	507.6	540.2	570.8
62.5°	328.3	334.1	341.7	352.1	366.6	387.7	413.8	438.1	465.9	494.3	517.1
65°	282.8	287.4	293.2	303.0	316.7	335.5	357.0	376.0	400.8	421.6	442.4
67.5°	232.9	241.6	249.3	257.2	268.8	286.4	302.0	320.1	336.9	352.4	371.4
70°	200.0	209.8	217.0	225.5	236.5	251.5	266.5	278.9	292.6	307.6	324.5
72.5°	172.4	180.1	185.7	194.7	204.7	218.7	232.6	242.9	254.0	264.3	280.7
75°	136.2	139.4	143.4	150.5	159.7	170.0	181.2	190.3	196.8	205.9	217.6
77.5°	97.8	104.2	106.7	111.8	118.3	124.9	132.1	139.9	146.1	149.3	158.3
80°	74.9	77.6	80.1	87.3	91.2	97.7	102.9	110.1	112.7	116.0	124.4
82.5°	58.2	59.9	61.4	63.3	65.7	72.2	77.4	82.0	84.5	85.8	92.2
85°	33.8	34.5	35.2	35.8	36.5	36.5	39.1	42.3	46.9	46.9	48.8
87.5°	12.6	13.2	13.1	12.4	13.5	13.0	13.6	13.5	15.0	16.4	17.8
90°	5.7	6.0	5.4	4.6	4.6	2.6	2.6	2.4	2.0	1.0	0.4
92.5°	88.0	105.7	92.5	67.3	41.5	24.5	17.6	12.7	8.7	5.6	3.8
95°	279.2	271.5	204.9	125.3	70.6	41.7	27.6	19.7	15.4	12.0	11.0
97.5°	350.7	286.0	191.7	112.6	67.5	45.1	33.5	26.6	22.6	19.7	19.7
100°	353.1	267.9	173.9	105.9	68.3	48.6	38.0	31.7	27.6	25.4	25.4
102.5°	333.1	245.2	161.9	104.1	71.0	53.2	43.1	36.9	33.3	31.2	30.6
105°	296.8	218.5	151.6	104.9	77.3	61.3	51.7	45.6	41.7	40.0	39.0
107.5°	267.5	203.6	149.7	109.9	84.6	70.0	60.5	54.8	50.5	48.8	48.2
110°	252.9	198.5	150.2	113.6	90.3	75.6	66.6	60.6	56.6	55.0	54.3



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	244.6	196.1	151.8	117.6	95.6	81.4	72.5	66.4	62.8	60.8	60.1
115°	236.9	194.9	154.9	123.9	104.0	90.6	81.6	75.3	71.9	69.7	68.6
117.5°	233.4	194.5	158.2	130.4	112.0	99.3	90.0	84.1	80.4	78.3	77.4
120°	231.5	194.5	160.6	134.9	117.6	104.9	95.6	89.9	86.2	84.0	83.3
122.5°	229.4	194.3	163.0	139.2	122.9	110.3	101.2	95.0	91.6	89.3	88.6
125°	225.8	193.9	166.5	145.5	130.3	118.3	109.0	102.6	99.0	96.9	95.6
127.5°	221.1	193.1	169.5	151.1	137.0	125.5	116.0	109.4	105.3	102.8	101.8
130°	218.2	192.8	171.5	154.6	141.6	130.3	120.6	114.2	109.2	106.6	105.3
132.5°	215.6	192.7	173.4	158.1	145.3	133.9	124.9	118.0	113.3	109.8	108.8
135°	211.5	192.2	176.3	162.6	150.5	139.6	130.9	123.9	118.3	114.9	113.6
137.5°	208.1	192.2	177.9	165.8	154.6	144.3	136.0	128.8	123.4	119.7	118.5
140°	206.2	191.9	179.2	167.9	157.2	147.2	139.2	132.2	126.6	122.9	122.0
142.5°	204.6	191.9	180.3	169.5	159.7	149.9	142.1	135.4	130.1	126.7	125.6
145°	201.9	191.2	180.9	171.3	162.2	153.5	146.3	139.9	135.3	132.0	130.9
147.5°	199.4	190.0	181.3	172.8	164.9	156.7	150.1	144.9	140.2	137.1	136.9
150°	197.6	189.2	181.3	173.5	166.3	158.9	152.6	147.6	143.5	140.9	140.5
152.5°	195.4	187.8	180.7	174.1	167.3	160.8	155.0	150.5	146.8	144.1	144.0
155°	192.2	185.9	179.9	174.6	168.9	163.2	158.3	154.6	151.3	149.2	148.9
157.5°	189.0	183.8	179.0	174.6	170.0	165.2	161.3	158.1	155.5	153.6	153.6
160°	186.5	182.2	178.2	174.6	170.6	166.5	162.9	160.2	157.9	156.6	156.6
162.5°	184.5	180.6	177.4	174.6	171.1	167.4	164.5	162.1	160.0	159.0	159.2
165°	180.9	178.2	175.9	173.9	171.3	168.2	166.3	164.6	162.9	162.2	162.2
167.5°	177.7	175.8	174.3	173.1	171.2	169.0	167.4	166.5	165.2	164.9	165.2
170°	175.6	174.2	173.2	172.6	170.9	169.2	168.2	167.6	166.5	166.3	166.5
172.5°	173.7	172.6	172.2	172.0	170.6	169.5	168.7	168.3	167.6	167.6	167.9
175°	171.5	170.9	170.9	171.3	170.2	169.6	169.6	169.2	168.9	168.9	169.2
177.5°	170.1	169.8	169.8	170.3	169.8	169.6	169.6	169.6	169.3	169.6	169.8
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1627.1	1631.8	1637.0	1646.9	1655.3	1659.0	1666.2	1671.4	1669.9	1677.2	1689.7
5°	1633.5	1651.1	1671.3	1692.1	1715.6	1735.1	1750.8	1766.4	1778.9	1793.8	1816.0
7.5°	1632.5	1663.8	1697.8	1735.1	1773.6	1806.9	1837.6	1868.9	1896.6	1927.0	1966.7
10°	1628.3	1670.0	1712.3	1761.2	1810.1	1856.3	1898.1	1937.1	1974.3	2014.0	2064.3
12.5°	1623.6	1671.6	1722.8	1781.6	1842.4	1898.1	1947.1	2003.4	2049.8	2101.1	2159.1
15°	1602.9	1667.4	1737.1	1813.4	1886.3	1961.2	2028.4	2097.4	2161.9	2223.2	2296.2
17.5°	1579.1	1653.6	1735.8	1825.9	1913.5	2004.7	2084.2	2171.3	2237.3	2319.5	2387.3
20°	1559.9	1640.0	1728.0	1829.0	1928.7	2029.7	2117.6	2206.3	2280.6	2363.3	2449.3
22.5°	1536.4	1624.4	1719.7	1824.3	1928.7	2039.1	2136.4	2224.5	2316.5	2409.7	2498.3
25°	1498.6	1589.9	1690.8	1805.5	1925.4	2038.2	2142.4	2251.8	2350.9	2451.9	2531.4
27.5°	1452.3	1548.0	1654.5	1772.8	1895.8	2011.3	2134.1	2250.7	2350.4	2447.6	2517.0
30°	1415.2	1516.3	1618.5	1738.4	1866.1	1989.9	2121.6	2238.2	2343.1	2430.4	2469.5
32.5°	1377.1	1473.0	1578.4	1699.9	1830.7	1963.9	2094.4	2213.7	2310.7	2363.1	2364.2
35°	1311.0	1400.9	1510.3	1629.7	1763.9	1908.5	2040.8	2158.0	2217.3	2221.9	2158.0
37.5°	1238.8	1321.3	1424.7	1544.0	1691.0	1834.8	1970.0	2048.1	2068.0	2001.7	1883.6
40°	1187.2	1263.4	1363.1	1485.6	1631.5	1780.1	1903.3	1960.6	1939.8	1832.2	1700.6
42.5°	1132.9	1204.0	1300.0	1421.0	1567.4	1717.6	1822.5	1853.2	1798.0	1673.8	1519.8
45°	1044.5	1109.7	1204.8	1326.6	1467.4	1608.1	1687.6	1672.0	1580.1	1432.9	1260.2
47.5°	952.3	1015.3	1100.9	1213.6	1357.7	1479.2	1533.0	1485.9	1355.2	1193.2	1052.7
50°	891.4	955.8	1034.7	1142.3	1273.8	1391.1	1425.7	1354.0	1208.7	1052.9	924.0
52.5°	831.4	886.6	963.8	1067.7	1193.5	1292.6	1311.0	1228.3	1078.4	938.8	824.3
55°	740.2	790.4	855.5	953.3	1062.1	1146.1	1136.3	1030.2	894.0	774.8	684.9
57.5°	652.0	689.8	750.0	841.6	937.1	993.5	957.8	867.2	740.4	642.7	566.8
60°	593.6	628.8	684.9	765.0	849.0	880.9	850.9	752.6	652.2	563.0	499.1
62.5°	538.4	569.4	617.6	692.0	759.9	778.7	746.7	660.8	570.4	494.2	441.3
65°	458.1	486.7	527.8	580.6	627.5	636.6	615.8	527.8	459.4	395.5	359.0
67.5°	385.2	404.0	436.0	481.6	506.5	511.9	471.6	416.3	356.0	316.8	289.3
70°	336.2	349.2	379.2	404.0	424.1	424.8	387.7	343.4	297.1	265.2	245.0
72.5°	288.8	301.3	324.0	340.9	356.4	351.4	317.4	282.4	245.0	220.9	205.9
75°	222.8	233.9	245.6	253.4	253.4	246.9	222.2	196.1	174.7	160.3	155.7
77.5°	162.0	171.1	175.0	173.8	171.5	161.4	145.7	128.7	120.9	114.1	110.7
80°	127.1	131.0	132.2	129.0	125.1	113.4	102.9	95.8	88.6	86.1	84.7
82.5°	94.3	97.6	94.3	95.1	86.5	76.9	71.2	68.7	65.7	64.7	63.3
85°	50.1	49.5	48.3	45.0	39.1	37.8	37.1	36.5	35.2	35.8	34.5
87.5°	17.4	16.0	14.0	13.6	13.6	12.9	13.5	13.6	13.7	13.1	14.2
90°	1.0	2.0	2.4	2.6	2.6	4.6	4.6	5.4	6.0	5.7	6.0
92.5°	5.6	8.7	12.7	17.6	24.5	41.5	67.3	92.5	105.7	88.0	65.4
95°	12.0	15.4	19.7	27.6	41.7	70.6	125.3	204.9	271.5	279.2	246.9
97.5°	19.7	22.6	26.6	33.5	45.1	67.5	112.6	191.7	286.0	350.7	364.7
100°	25.4	27.6	31.7	38.0	48.6	68.3	105.9	173.9	267.9	353.1	401.7
102.5°	31.2	33.3	36.9	43.1	53.2	71.0	104.1	161.9	245.2	333.1	399.9
105°	40.0	41.7	45.6	51.7	61.3	77.3	104.9	151.6	218.5	296.8	373.1
107.5°	48.8	50.5	54.8	60.5	70.0	84.6	109.9	149.7	203.6	267.5	335.1
110°	55.0	56.6	60.6	66.6	75.6	90.3	113.6	150.2	198.5	252.9	312.2





TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.8	62.8	66.4	72.5	81.4	95.6	117.6	151.8	196.1	244.6	295.3
115°	69.7	71.9	75.3	81.6	90.6	104.0	123.9	154.9	194.9	236.9	278.5
117.5°	78.3	80.4	84.1	90.0	99.3	112.0	130.4	158.2	194.5	233.4	270.2
120°	84.0	86.2	89.9	95.6	104.9	117.6	134.9	160.6	194.5	231.5	266.5
122.5°	89.3	91.6	95.0	101.2	110.3	122.9	139.2	163.0	194.3	229.4	263.3
125°	96.9	99.0	102.6	109.0	118.3	130.3	145.5	166.5	193.9	225.8	257.9
127.5°	102.8	105.3	109.4	116.0	125.5	137.0	151.1	169.5	193.1	221.1	251.2
130°	106.6	109.2	114.2	120.6	130.3	141.6	154.6	171.5	192.8	218.2	245.8
132.5°	109.8	113.3	118.0	124.9	133.9	145.3	158.1	173.4	192.7	215.6	240.3
135°	114.9	118.3	123.9	130.9	139.6	150.5	162.6	176.3	192.2	211.5	232.5
137.5°	119.7	123.4	128.8	136.0	144.3	154.6	165.8	177.9	192.2	208.1	225.6
140°	122.9	126.6	132.2	139.2	147.2	157.2	167.9	179.2	191.9	206.2	221.5
142.5°	126.7	130.1	135.4	142.1	149.9	159.7	169.5	180.3	191.9	204.6	217.8
145°	132.0	135.3	139.9	146.3	153.5	162.2	171.3	180.9	191.2	201.9	212.5
147.5°	137.1	140.2	144.9	150.1	156.7	164.9	172.8	181.3	190.0	199.4	208.2
150°	140.9	143.5	147.6	152.6	158.9	166.3	173.5	181.3	189.2	197.6	205.6
152.5°	144.1	146.8	150.5	155.0	160.8	167.3	174.1	180.7	187.8	195.4	202.6
155°	149.2	151.3	154.6	158.3	163.2	168.9	174.6	179.9	185.9	192.2	198.2
157.5°	153.6	155.5	158.1	161.3	165.2	170.0	174.6	179.0	183.8	189.0	193.5
160°	156.6	157.9	160.2	162.9	166.5	170.6	174.6	178.2	182.2	186.5	190.6
162.5°	159.0	160.0	162.1	164.5	167.4	171.1	174.6	177.4	180.6	184.5	187.7
165°	162.2	162.9	164.6	166.3	168.2	171.3	173.9	175.9	178.2	180.9	183.5
167.5°	164.9	165.2	166.5	167.4	169.0	171.2	173.1	174.3	175.8	177.7	179.6
170°	166.3	166.5	167.6	168.2	169.2	170.9	172.6	173.2	174.2	175.6	177.2
172.5°	167.6	167.6	168.3	168.7	169.5	170.6	172.0	172.2	172.6	173.7	175.1
175°	168.9	168.9	169.2	169.6	169.6	170.2	171.3	170.9	170.9	171.5	172.2
177.5°	169.6	169.3	169.6	169.6	169.6	169.8	170.3	169.8	169.8	170.1	170.3
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1696.5	1698.6	1700.2	1705.3	1705.8	1710.5	1705.8
5°	1836.8	1846.0	1860.3	1874.6	1875.9	1885.0	1868.8
7.5°	1994.2	2015.3	2028.5	2051.7	2060.9	2066.5	2057.2
10°	2102.6	2122.2	2156.7	2173.7	2190.7	2193.2	2185.4
12.5°	2207.4	2238.4	2265.7	2297.7	2297.0	2319.9	2311.6
15°	2347.0	2379.0	2416.7	2452.6	2465.6	2465.6	2476.1
17.5°	2446.6	2505.1	2544.2	2572.3	2603.1	2608.4	2604.8
20°	2513.9	2577.0	2618.8	2655.2	2676.1	2681.9	2681.9
22.5°	2563.8	2617.6	2658.3	2691.1	2708.4	2715.3	2713.2
25°	2598.5	2644.8	2669.6	2679.3	2683.9	2682.6	2670.2
27.5°	2551.1	2549.0	2533.4	2503.4	2480.9	2467.2	2451.6
30°	2460.4	2426.5	2387.4	2344.4	2289.1	2246.6	2233.6
32.5°	2325.3	2249.3	2183.0	2111.4	2051.8	2009.5	1991.8
35°	2064.3	1943.7	1845.3	1759.3	1696.8	1657.6	1644.6
37.5°	1754.4	1637.7	1515.9	1432.5	1380.5	1341.0	1326.3
40°	1557.3	1430.2	1324.0	1245.9	1192.4	1154.0	1153.3
42.5°	1377.4	1256.1	1156.2	1099.9	1042.3	1016.8	1016.7
45°	1127.8	1030.8	946.1	901.8	867.2	846.4	840.6
47.5°	933.9	853.6	797.1	761.9	733.7	720.4	711.8
50°	824.9	754.5	709.5	678.9	663.3	646.4	645.1
52.5°	734.2	677.4	642.3	617.5	597.7	587.5	587.8
55°	617.1	572.1	547.3	528.4	512.8	505.0	501.7
57.5°	519.8	486.1	468.1	450.7	444.1	438.0	436.3
60°	459.4	436.6	419.6	406.0	396.2	394.2	393.5
62.5°	409.3	385.5	373.7	363.2	356.0	353.0	351.9
65°	337.5	319.9	309.5	301.0	298.4	293.9	293.2
67.5°	272.1	261.6	254.7	248.7	245.2	245.0	245.0
70°	232.0	226.1	220.3	217.0	215.0	213.7	213.7
72.5°	197.6	193.2	188.4	186.7	186.3	185.0	184.5
75°	150.5	146.0	146.6	143.4	140.7	137.5	135.5
77.5°	106.7	103.5	102.8	102.5	100.2	99.8	100.9
80°	82.8	79.5	78.8	79.5	78.8	76.9	76.9
82.5°	63.0	60.2	59.6	59.2	58.5	59.2	58.2
85°	33.8	32.6	32.6	32.6	33.8	33.3	32.6
87.5°	13.3	12.8	13.3	12.9	12.9	12.3	12.9
90°	6.3	6.7	6.7	7.0	7.4	7.0	7.0
92.5°	49.2	39.2	32.5	28.6	26.8	25.6	25.6
95°	195.2	150.5	118.3	101.9	91.6	85.6	81.2
97.5°	345.5	312.9	278.1	254.2	234.2	224.2	217.3
100°	408.4	392.1	367.4	338.5	318.1	308.1	305.5
102.5°	432.9	437.6	427.3	409.6	394.9	384.4	382.2
105°	430.7	463.7	477.4	478.1	475.3	470.7	468.7
107.5°	396.4	442.8	472.6	489.0	496.6	499.9	500.8
110°	369.8	418.1	454.7	478.3	492.4	498.3	501.3



TEST NUMBER: P332957-830

CATALOG NUMBER: SA4XXRDIP-C1020D365U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	346.3	391.9	428.6	455.4	472.4	480.8	485.6
115°	319.4	358.4	390.4	416.7	436.7	447.4	450.1
117.5°	304.2	334.8	361.9	384.4	401.1	411.9	414.0
120°	297.5	324.1	347.8	366.7	381.4	390.1	393.8
122.5°	293.2	317.4	338.2	354.2	366.7	374.1	377.8
125°	286.4	309.4	327.8	341.1	350.8	357.1	359.1
127.5°	278.5	301.5	318.9	332.2	340.8	346.2	348.2
130°	272.2	294.8	312.5	326.1	334.4	339.8	341.8
132.5°	264.9	287.1	304.7	318.1	327.5	332.6	334.6
135°	254.2	274.5	291.2	304.4	313.8	319.1	321.1
137.5°	243.8	261.0	276.0	288.5	297.7	302.1	304.4
140°	237.1	252.1	266.2	277.9	285.1	289.8	292.5
142.5°	231.6	244.4	256.6	266.9	273.7	277.9	279.7
145°	223.9	233.8	243.2	251.5	257.1	260.5	262.1
147.5°	217.2	225.2	232.5	238.7	243.6	246.0	246.7
150°	213.2	219.9	225.8	231.2	235.5	237.5	237.8
152.5°	209.2	215.4	220.3	224.8	228.3	229.5	229.9
155°	203.5	208.5	212.5	215.8	218.5	219.5	219.5
157.5°	197.9	202.2	205.4	207.8	209.9	210.5	210.5
160°	194.2	197.8	200.6	202.6	204.5	204.9	204.9
162.5°	190.8	193.6	196.0	197.5	199.4	199.8	199.5
165°	185.6	187.8	189.5	190.9	192.2	191.9	191.5
167.5°	181.2	183.0	184.0	184.6	185.6	185.5	185.2
170°	178.2	179.6	180.6	181.3	181.5	181.3	181.3
172.5°	175.8	176.6	177.4	177.8	178.0	177.8	177.2
175°	172.6	173.2	173.2	173.2	173.9	173.2	172.6
177.5°	170.6	170.6	170.9	170.6	170.9	170.3	169.8
180°	169.6	169.6	169.6	169.6	169.6	169.6	169.6

(END OF REPORT)