

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: P332475-935

Luminaire Tested: **S123RDIW-S1165D755U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332475-935
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: S123RDIW-S1165D755U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6192.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

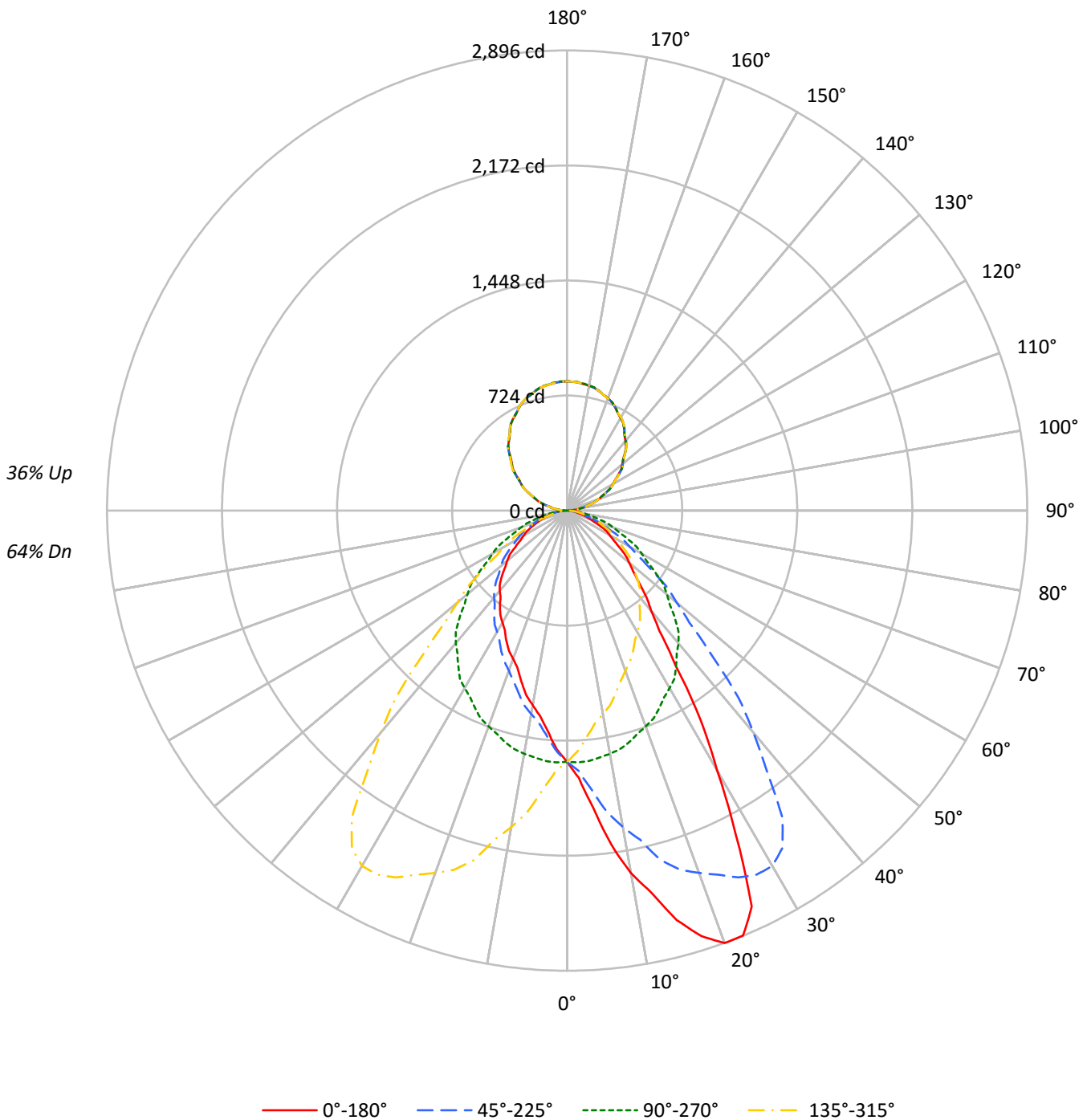
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64
1	102	97	94	90	95	92	88	86	81	78	76	71	69	68	62	61	59	55
2	93	86	80	75	87	81	76	71	72	68	64	63	60	58	55	53	51	47
3	85	76	69	64	80	72	66	61	64	59	55	57	53	50	50	47	44	41
4	79	68	60	54	74	64	57	52	57	52	48	51	47	43	45	42	39	36
5	72	61	53	47	68	58	51	45	52	46	42	46	42	38	41	37	34	32
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	37	34	31	28
7	62	50	42	37	58	48	40	35	43	37	33	38	34	30	34	30	27	25
8	58	46	38	33	54	43	36	32	39	33	29	35	30	27	32	28	25	23
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	23	21
10	51	39	31	27	48	37	30	26	33	28	24	30	26	22	27	23	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17016	17016	17016	17016
5°	20283	17088	15048	17088
10°	25326	16990	13595	16990
15°	29727	16817	12397	16817
20°	33176	16557	11379	16557
25°	32647	16284	10753	16284
30°	23467	16032	10110	16032
35°	15669	15704	9692	15704
40°	11545	15309	9261	15309
45°	9683	14618	8840	14618
50°	8544	13711	8251	13711
55°	7492	12675	7443	12675
60°	6674	11683	6818	11683
65°	5861	10618	6342	10618
70°	4601	9668	5794	9668
75°	4055	8442	5294	8442
80°	3521	7172	5201	7172
85°	2841	5768	5521	5768



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CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.5
10°-20°	485.7	7.8
20°-30°	763.0	12.3
30°-40°	796.1	12.9
40°-50°	681.2	11.0
50°-60°	519.2	8.4
60°-70°	332.8	5.4
70°-80°	160.1	2.6
80°-90°	44.8	0.7
90°-100°	53.0	0.9
100°-110°	158.6	2.6
110°-120°	269.8	4.4
120°-130°	354.9	5.7
130°-140°	398.9	6.4
140°-150°	392.1	6.3
150°-160°	330.1	5.3
160°-170°	219.7	3.5
170°-180°	76.9	1.2
0°-30°	1404.1	22.7
0°-40°	2200.2	35.5
0°-60°	3400.7	54.9
0°-90°	3938.4	63.6
90°-120°	481.4	7.8
90°-150°	1627.3	26.3
90°-180°	2254.0	36.4
0°-180°	6192.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1581	1581	1581	1581	1581	
5°	1877	1582	1393	1582	1877	194
15°	2668	1509	1112	1509	2668	756
25°	2749	1371	905	1371	2749	1181
35°	1192	1195	738	1195	1192	782
45°	636	960	581	960	636	500
55°	399	675	397	675	399	361
65°	230	417	249	417	230	226
75°	98	203	127	203	98	105
85°	23	47	45	47	23	27
90°	19	1	19	1	19	10
95°	50	38	50	38	50	51
105°	152	144	152	144	152	161
115°	272	272	272	272	272	270
125°	393	398	393	398	393	351
135°	515	516	515	516	515	396
145°	626	626	626	626	626	391
155°	715	716	715	716	715	329
165°	778	780	778	780	778	219
175°	808	812	808	812	808	77
180°	814	814	814	814	814	



TEST NUMBER: P332475-935

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1683.7	1685.8	1678.8	1677.7	1669.6	1667.4	1667.4	1656.0	1649.0	1639.9	1634.4
5°	1877.2	1888.1	1882.7	1870.4	1850.1	1845.4	1832.6	1812.2	1789.2	1760.8	1747.3
7.5°	2118.9	2133.7	2128.0	2109.2	2087.9	2070.8	2034.5	2000.8	1953.5	1912.1	1876.6
10°	2317.1	2301.5	2289.3	2271.1	2251.4	2219.7	2181.8	2129.6	2069.4	2022.1	1969.3
12.5°	2465.4	2462.9	2447.4	2428.6	2400.9	2370.7	2324.1	2260.6	2190.6	2122.2	2061.8
15°	2667.6	2671.7	2661.5	2641.9	2602.6	2549.2	2478.8	2452.5	2352.3	2277.9	2203.4
17.5°	2807.5	2806.8	2805.4	2778.2	2738.2	2700.1	2634.8	2565.4	2474.8	2369.9	2269.6
20°	2896.3	2889.6	2891.0	2860.5	2830.7	2786.7	2723.1	2622.3	2547.9	2426.7	2323.2
22.5°	2894.2	2892.9	2898.0	2887.5	2865.9	2832.2	2782.1	2697.0	2602.0	2479.8	2363.3
25°	2748.8	2743.4	2775.3	2784.0	2818.6	2824.6	2809.7	2763.0	2673.1	2547.2	2403.1
27.5°	2300.6	2297.6	2356.6	2430.5	2524.2	2596.9	2667.4	2701.3	2673.1	2582.9	2438.5
30°	1888.1	1951.6	1981.4	2088.4	2207.4	2349.6	2474.1	2592.5	2621.6	2582.4	2463.9
32.5°	1567.5	1623.1	1648.0	1739.7	1850.7	2017.2	2203.9	2371.6	2490.1	2520.1	2448.8
35°	1192.4	1193.1	1249.9	1290.5	1393.4	1564.6	1745.9	1970.6	2193.9	2363.1	2380.7
37.5°	951.5	954.8	989.2	1029.7	1106.8	1197.4	1357.1	1543.9	1801.8	2061.6	2213.8
40°	821.6	827.6	853.3	893.3	948.7	1017.1	1141.6	1317.6	1532.8	1821.7	2057.9
42.5°	738.1	748.0	761.3	792.0	826.4	890.4	991.1	1127.0	1322.8	1595.9	1868.5
45°	636.1	641.5	651.7	665.9	697.0	741.7	809.3	900.7	1063.2	1283.1	1555.7
47.5°	561.1	558.3	568.9	580.5	601.2	631.6	677.0	751.6	867.5	1043.9	1275.2
50°	510.2	509.5	517.0	525.8	545.4	567.7	605.0	661.2	753.2	899.4	1111.2
52.5°	462.6	465.2	470.5	481.4	495.6	513.7	547.1	587.5	666.6	792.7	969.3
55°	399.2	401.3	408.7	414.8	425.0	443.2	464.3	498.1	552.2	640.2	785.7
57.5°	345.7	344.7	351.9	353.4	364.9	379.8	396.0	422.2	461.5	526.9	624.9
60°	310.0	307.9	314.0	318.7	324.9	337.0	350.5	376.3	407.4	455.5	539.3
62.5°	277.4	276.5	280.9	285.7	290.8	301.8	313.1	332.9	357.6	398.0	464.6
65°	230.1	232.1	234.1	236.2	238.8	245.6	256.5	270.0	287.0	315.4	363.4
67.5°	180.8	182.9	183.6	187.7	193.6	197.8	204.4	216.5	228.2	252.2	279.5
70°	146.2	145.5	146.2	148.2	155.7	163.1	171.9	180.7	188.1	205.0	228.1
72.5°	125.6	124.4	126.1	126.6	130.2	132.2	137.8	146.0	155.7	167.1	183.7
75°	97.5	97.5	97.5	97.5	100.1	101.5	103.6	105.6	108.9	114.3	126.6
77.5°	72.0	72.2	73.1	73.8	74.3	75.1	76.4	78.4	79.6	82.4	87.7
80°	56.8	57.5	56.8	57.5	57.5	58.9	59.6	61.6	62.3	65.6	67.7
82.5°	42.8	42.4	42.8	43.5	43.5	44.8	44.9	46.4	46.6	48.3	50.4
85°	23.0	21.7	23.0	22.3	23.7	22.3	23.0	24.4	24.4	25.1	27.7
87.5°	9.2	10.2	9.1	9.6	9.6	10.0	9.9	9.8	10.8	10.1	10.2
90°	19.2	18.9	18.6	18.3	18.0	17.7	17.0	16.4	15.9	15.3	13.5
92.5°	25.8	26.0	26.2	26.3	26.5	26.3	25.9	25.5	25.0	24.5	23.5
95°	49.9	49.9	49.9	49.9	49.9	49.6	49.0	48.4	47.9	47.3	46.1
97.5°	76.7	76.7	76.8	76.9	76.9	76.6	75.9	75.3	74.6	74.0	73.2
100°	97.1	96.9	96.6	96.3	96.0	95.7	95.2	94.8	94.4	93.9	93.2
102.5°	118.1	118.1	118.2	118.3	118.3	118.1	117.7	117.3	116.8	116.4	115.5
105°	152.1	151.8	151.5	151.3	150.9	150.8	150.8	150.8	150.8	150.8	149.6
107.5°	187.5	187.7	187.9	188.0	188.2	188.0	187.6	187.1	186.7	186.2	185.7
110°	211.5	211.8	212.1	212.4	212.7	212.5	212.0	211.4	210.9	210.3	210.0



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	237.1	237.1	237.2	237.3	237.3	237.0	236.3	235.7	235.0	234.3	234.2
115°	272.2	272.4	272.5	272.7	272.9	272.9	272.7	272.5	272.4	272.2	272.5
117.5°	307.9	308.3	308.7	309.1	309.5	309.7	309.7	309.8	309.8	309.8	310.2
120°	332.9	333.2	333.6	333.8	334.1	334.3	334.4	334.6	334.8	334.8	335.6
122.5°	357.0	357.4	357.7	358.2	358.6	359.0	359.3	359.7	360.1	360.4	360.8
125°	393.0	393.6	394.2	394.8	395.3	395.9	396.4	397.0	397.6	398.1	398.4
127.5°	429.0	429.6	430.2	430.9	431.5	432.3	433.1	433.9	434.6	435.5	435.8
130°	452.5	453.5	454.4	455.5	456.4	457.2	457.8	458.4	458.9	459.5	459.9
132.5°	477.0	477.8	478.5	479.3	480.1	480.8	481.5	482.2	482.8	483.5	483.8
135°	515.1	515.4	515.7	515.9	516.3	516.7	517.2	517.8	518.3	518.9	519.1
137.5°	548.7	549.2	549.7	550.4	550.9	551.5	552.0	552.6	553.2	553.8	553.5
140°	570.7	571.7	572.7	573.7	574.6	575.2	575.4	575.5	575.7	575.8	575.7
142.5°	593.1	593.9	594.7	595.5	596.2	596.7	596.8	597.0	597.1	597.3	597.0
145°	625.7	626.2	626.8	627.3	627.9	628.3	628.4	628.5	628.7	628.9	628.4
147.5°	654.5	655.4	656.3	657.1	658.0	658.4	658.4	658.4	658.4	658.4	658.0
150°	673.0	673.8	674.7	675.5	676.3	676.7	676.7	676.7	676.7	676.7	676.5
152.5°	690.9	691.6	692.3	693.0	693.8	694.1	693.8	693.6	693.4	693.1	692.9
155°	715.1	716.1	717.1	718.1	719.1	719.3	718.8	718.2	717.6	717.0	716.9
157.5°	737.2	738.0	738.8	739.6	740.4	740.5	739.9	739.3	738.7	738.1	738.0
160°	751.6	752.1	752.7	753.3	753.8	753.7	753.0	752.3	751.7	750.9	750.9
162.5°	762.2	763.2	764.1	765.0	765.9	766.0	765.3	764.6	763.9	763.2	763.1
165°	777.7	778.8	779.7	780.8	781.7	781.8	780.9	780.1	779.2	778.3	778.3
167.5°	790.9	791.8	792.6	793.6	794.4	794.4	793.6	792.6	791.8	790.9	790.8
170°	797.5	798.6	799.5	800.6	801.5	801.5	800.6	799.5	798.6	797.5	797.5
172.5°	802.7	803.7	804.7	805.6	806.7	806.7	805.8	804.9	804.1	803.1	803.1
175°	808.4	809.4	810.4	811.4	812.4	812.4	811.6	810.8	809.9	809.1	809.1
177.5°	811.5	812.3	813.0	813.9	814.7	814.8	814.1	813.4	812.7	812.0	812.0
180°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1632.3	1630.6	1623.1	1614.4	1603.0	1595.4	1589.5	1586.2	1576.5	1564.6	1556.4
5°	1733.1	1712.8	1691.1	1664.7	1640.4	1615.3	1599.7	1581.5	1559.2	1534.1	1516.6
7.5°	1841.1	1801.3	1758.4	1714.2	1670.4	1631.2	1596.6	1566.8	1531.3	1495.4	1470.2
10°	1923.9	1865.7	1805.5	1743.9	1687.7	1635.0	1594.3	1554.4	1511.8	1470.5	1439.4
12.5°	1999.2	1922.5	1853.1	1777.4	1705.6	1642.5	1584.1	1537.1	1485.8	1441.8	1406.4
15°	2094.5	2015.9	1932.0	1817.0	1721.6	1641.8	1570.6	1509.1	1446.8	1392.7	1358.1
17.5°	2183.5	2065.4	1952.6	1856.7	1732.7	1632.9	1546.2	1472.6	1404.2	1346.8	1304.3
20°	2220.3	2105.9	1983.5	1861.0	1739.1	1627.5	1526.6	1445.4	1374.4	1309.4	1270.2
22.5°	2242.5	2113.0	1984.0	1852.4	1722.9	1607.0	1507.2	1417.9	1340.8	1279.1	1230.7
25°	2268.4	2114.1	1971.9	1842.0	1710.0	1584.2	1465.8	1371.1	1287.8	1222.2	1170.7
27.5°	2285.4	2103.9	1936.0	1791.6	1657.7	1532.3	1423.8	1323.4	1239.0	1169.5	1114.3
30°	2288.6	2095.8	1908.3	1752.0	1616.0	1501.0	1386.0	1289.9	1200.5	1126.7	1075.3
32.5°	2293.0	2075.8	1871.0	1705.0	1565.6	1451.7	1347.5	1255.7	1164.2	1091.6	1039.1
35°	2275.1	2064.7	1814.3	1623.4	1484.0	1373.7	1279.7	1195.1	1105.1	1034.7	981.3
37.5°	2198.2	2020.7	1755.6	1531.7	1386.0	1283.8	1207.1	1133.3	1050.9	974.9	924.5
40°	2120.8	1977.4	1710.0	1475.9	1323.7	1218.7	1149.8	1089.5	1009.7	938.6	884.5
42.5°	2005.5	1918.4	1666.7	1417.5	1253.3	1152.2	1094.0	1037.5	967.4	895.3	844.4
45°	1794.0	1805.5	1578.1	1324.3	1155.8	1054.3	999.5	960.3	898.0	838.4	786.4
47.5°	1528.7	1636.3	1474.0	1225.1	1053.1	957.9	909.9	875.6	833.7	775.2	727.7
50°	1355.5	1509.1	1390.7	1158.6	988.7	894.0	846.5	818.8	782.3	736.2	691.0
52.5°	1195.8	1360.7	1290.0	1084.3	918.9	832.2	785.9	763.1	734.1	690.8	649.8
55°	975.2	1142.3	1126.1	972.4	814.1	736.2	701.1	675.4	655.7	623.3	590.8
57.5°	788.8	947.3	955.6	847.9	721.8	644.9	614.6	595.2	582.4	557.9	527.9
60°	671.3	816.8	845.2	764.1	655.7	588.1	558.3	542.7	532.6	513.0	489.9
62.5°	573.9	697.7	729.9	671.4	592.4	529.1	505.8	490.8	483.9	466.9	446.6
65°	439.2	542.1	573.2	540.7	499.4	448.7	429.7	416.9	410.8	401.3	386.4
67.5°	330.3	405.2	439.4	416.5	401.6	369.5	357.4	350.5	345.1	338.6	326.1
70°	265.3	320.7	355.9	349.8	337.7	320.7	311.9	307.2	301.8	296.4	285.6
72.5°	213.3	251.5	284.5	287.6	277.6	274.2	266.5	264.5	261.2	254.7	248.7
75°	141.5	167.8	190.8	199.7	203.7	207.1	203.7	203.0	202.3	196.9	193.6
77.5°	92.7	106.9	121.4	136.5	142.8	147.4	148.4	150.9	149.1	146.3	144.6
80°	71.0	74.5	84.6	97.5	107.6	111.7	114.3	115.7	115.0	114.3	111.7
82.5°	51.6	54.4	59.2	68.2	76.7	83.5	85.2	84.9	86.4	86.8	84.6
85°	27.7	28.4	29.8	31.2	35.9	43.3	45.4	46.7	48.0	48.0	44.0
87.5°	11.0	10.1	10.8	10.5	11.8	12.1	15.1	17.5	18.3	16.4	16.7
90°	11.6	9.8	7.9	6.3	4.9	3.4	2.1	0.6	2.1	3.4	4.9
92.5°	22.5	21.4	20.3	19.3	18.3	17.4	16.4	15.5	16.4	17.4	18.3
95°	45.0	43.9	42.7	41.7	40.7	39.7	38.7	37.7	38.7	39.7	40.7
97.5°	72.3	71.5	70.7	69.9	69.2	68.4	67.7	67.0	67.7	68.4	69.2
100°	92.6	91.8	91.1	90.3	89.5	88.6	87.7	86.9	87.7	88.6	89.5
102.5°	114.6	113.7	112.7	111.9	111.4	111.0	110.5	109.9	110.5	111.0	111.4
105°	148.3	147.0	145.7	144.9	144.6	144.4	144.0	143.8	144.0	144.4	144.6
107.5°	185.2	184.7	184.2	183.8	183.7	183.5	183.3	183.1	183.3	183.5	183.7
110°	209.7	209.4	209.1	208.8	208.5	208.3	208.0	207.7	208.0	208.3	208.5



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	234.2	234.1	234.0	233.9	233.8	233.6	233.4	233.2	233.4	233.6	233.8
115°	272.9	273.1	273.4	273.3	272.9	272.4	272.0	271.6	272.0	272.4	272.9
117.5°	310.6	310.9	311.3	311.3	311.1	310.7	310.5	310.2	310.5	310.7	311.1
120°	336.3	337.0	337.7	337.7	336.8	336.0	335.1	334.2	335.1	336.0	336.8
122.5°	361.2	361.5	361.9	361.8	361.2	360.5	359.9	359.3	359.9	360.5	361.2
125°	398.7	399.0	399.2	399.2	398.8	398.4	398.0	397.5	398.0	398.4	398.8
127.5°	436.1	436.4	436.7	436.4	435.5	434.6	433.7	432.7	433.7	434.6	435.5
130°	460.4	460.8	461.2	460.8	459.7	458.6	457.4	456.3	457.4	458.6	459.7
132.5°	484.1	484.5	484.7	484.4	483.2	482.1	481.0	479.8	481.0	482.1	483.2
135°	519.2	519.4	519.5	519.1	518.3	517.5	516.6	515.7	516.6	517.5	518.3
137.5°	553.1	552.7	552.3	551.8	551.1	550.4	549.7	549.0	549.7	550.4	551.1
140°	575.5	575.4	575.2	574.8	574.1	573.4	572.7	572.0	572.7	573.4	574.1
142.5°	596.8	596.5	596.2	595.7	595.0	594.3	593.7	593.0	593.7	594.3	595.0
145°	628.0	627.6	627.2	626.8	626.5	626.2	625.9	625.7	625.9	626.2	626.5
147.5°	657.5	657.2	656.8	656.3	655.8	655.3	654.8	654.3	654.8	655.3	655.8
150°	676.2	675.9	675.6	675.4	675.1	674.8	674.5	674.2	674.5	674.8	675.1
152.5°	692.8	692.6	692.4	692.2	691.8	691.4	691.0	690.6	691.0	691.4	691.8
155°	716.8	716.6	716.4	716.4	716.4	716.4	716.4	716.4	716.4	716.4	716.4
157.5°	737.9	737.8	737.7	737.7	737.9	738.0	738.2	738.4	738.2	738.0	737.9
160°	750.9	750.9	750.9	751.1	751.3	751.7	751.9	752.2	751.9	751.7	751.3
162.5°	762.9	762.8	762.8	762.8	763.3	763.6	764.1	764.5	764.1	763.6	763.3
165°	778.3	778.3	778.3	778.6	779.0	779.5	779.9	780.3	779.9	779.5	779.0
167.5°	790.7	790.6	790.5	790.7	791.3	791.9	792.4	793.0	792.4	791.9	791.3
170°	797.5	797.5	797.5	797.8	798.4	799.0	799.5	800.1	799.5	799.0	798.4
172.5°	803.1	803.1	803.1	803.5	804.0	804.6	805.2	805.7	805.2	804.6	804.0
175°	809.1	809.1	809.1	809.3	809.9	810.5	811.1	811.6	811.1	810.5	809.9
177.5°	812.0	812.0	812.0	812.3	812.7	813.1	813.6	814.1	813.6	813.1	812.7
180°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1553.8	1546.7	1541.9	1531.0	1524.0	1516.4	1508.8	1513.7	1513.1	1512.6	1512.6
5°	1501.7	1486.1	1471.9	1453.6	1442.1	1427.9	1417.0	1415.7	1418.4	1408.9	1403.5
7.5°	1449.9	1428.7	1408.5	1388.4	1367.0	1350.0	1339.2	1334.2	1327.3	1321.5	1315.4
10°	1413.7	1388.6	1369.0	1343.9	1320.9	1300.6	1287.8	1279.0	1274.3	1269.5	1260.8
12.5°	1376.3	1351.9	1326.8	1298.5	1276.6	1253.0	1243.4	1233.6	1224.4	1219.2	1207.1
15°	1321.6	1289.9	1263.4	1233.6	1209.3	1186.3	1172.8	1153.1	1150.4	1143.7	1131.4
17.5°	1266.8	1232.3	1195.9	1173.8	1146.3	1122.4	1101.8	1095.2	1075.8	1068.5	1058.0
20°	1223.5	1191.7	1164.0	1134.9	1094.9	1072.6	1056.4	1047.6	1032.0	1022.5	1015.7
22.5°	1186.1	1153.8	1121.7	1087.8	1054.9	1029.8	1018.0	1004.3	995.7	982.5	975.2
25°	1132.8	1097.6	1059.0	1022.5	998.8	979.9	961.0	948.7	936.6	930.5	917.0
27.5°	1070.8	1034.1	998.0	970.3	941.2	922.5	905.3	894.5	879.9	869.6	862.1
30°	1036.7	993.4	962.3	937.3	900.0	882.4	869.6	856.1	845.2	834.4	827.0
32.5°	997.2	957.7	928.2	897.2	868.7	849.4	832.8	820.9	811.7	801.3	793.9
35°	935.2	902.1	871.6	840.5	819.5	799.9	780.2	770.1	761.3	751.8	745.1
37.5°	879.2	848.2	819.2	789.7	763.7	747.8	731.9	724.2	712.3	705.9	699.0
40°	844.6	814.1	783.0	754.6	727.5	715.3	701.1	689.6	678.7	674.0	666.6
42.5°	806.7	776.2	749.9	719.4	697.2	680.6	667.5	655.0	646.8	639.9	635.7
45°	750.4	723.4	697.7	667.3	646.3	632.1	617.2	605.6	598.2	593.5	586.0
47.5°	695.9	668.9	642.7	616.2	595.9	579.7	564.8	556.8	546.9	541.1	536.1
50°	656.4	632.1	604.3	580.0	559.6	543.4	531.2	521.1	512.3	504.8	501.4
52.5°	620.2	594.2	570.2	547.4	526.1	507.6	496.5	485.9	479.2	470.7	466.8
55°	560.3	535.3	515.0	492.7	471.7	456.1	442.6	433.1	426.4	416.9	411.5
57.5°	504.1	481.7	457.4	438.1	416.5	403.3	392.1	379.3	371.0	363.5	358.3
60°	466.2	440.6	419.6	401.3	382.4	365.4	355.2	345.1	336.3	328.9	324.2
62.5°	426.7	404.2	384.4	364.5	347.2	332.4	320.6	312.1	304.4	299.6	294.9
65°	366.1	348.5	328.2	311.9	295.8	284.9	275.4	267.9	262.6	259.2	255.1
67.5°	310.3	293.3	275.5	259.6	248.7	240.5	234.3	227.9	225.2	220.8	218.2
70°	274.1	256.5	240.9	228.8	217.9	211.8	207.8	203.0	200.3	194.9	192.2
72.5°	234.5	221.8	210.6	200.6	191.9	186.4	181.2	175.4	171.1	165.1	162.4
75°	184.8	173.2	164.5	157.6	152.2	144.8	137.4	131.3	129.2	127.3	126.6
77.5°	136.8	129.5	123.1	117.4	110.7	105.3	103.7	102.3	101.9	100.8	100.8
80°	107.6	100.8	96.1	89.3	85.2	85.2	85.2	83.9	84.6	84.6	84.6
82.5°	80.0	73.8	71.2	68.8	67.9	68.4	68.4	68.8	68.4	69.4	68.9
85°	41.2	41.9	43.3	42.6	43.3	43.3	44.7	44.0	44.7	43.3	44.7
87.5°	16.4	18.3	19.3	20.2	21.1	20.9	21.6	21.7	22.4	22.5	22.6
90°	6.3	7.9	9.8	11.6	13.5	15.3	15.9	16.4	17.0	17.7	18.0
92.5°	19.3	20.3	21.4	22.5	23.5	24.5	25.0	25.5	25.9	26.3	26.5
95°	41.7	42.7	43.9	45.0	46.1	47.3	47.9	48.4	49.0	49.6	49.9
97.5°	69.9	70.7	71.5	72.3	73.2	74.0	74.6	75.3	75.9	76.6	76.9
100°	90.3	91.1	91.8	92.6	93.2	93.9	94.4	94.8	95.2	95.7	96.0
102.5°	111.9	112.7	113.7	114.6	115.5	116.4	116.8	117.3	117.7	118.1	118.3
105°	144.9	145.7	147.0	148.3	149.6	150.8	150.8	150.8	150.8	150.8	150.9
107.5°	183.8	184.2	184.7	185.2	185.7	186.2	186.7	187.1	187.6	188.0	188.2
110°	208.8	209.1	209.4	209.7	210.0	210.3	210.9	211.4	212.0	212.5	212.7



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	233.9	234.0	234.1	234.2	234.2	234.3	235.0	235.7	236.3	237.0	237.3
115°	273.3	273.4	273.1	272.9	272.5	272.2	272.4	272.5	272.7	272.9	272.9
117.5°	311.3	311.3	310.9	310.6	310.2	309.8	309.8	309.8	309.7	309.7	309.5
120°	337.7	337.7	337.0	336.3	335.6	334.8	334.8	334.6	334.4	334.3	334.1
122.5°	361.8	361.9	361.5	361.2	360.8	360.4	360.1	359.7	359.3	359.0	358.6
125°	399.2	399.2	399.0	398.7	398.4	398.1	397.6	397.0	396.4	395.9	395.3
127.5°	436.4	436.7	436.4	436.1	435.8	435.5	434.6	433.9	433.1	432.3	431.5
130°	460.8	461.2	460.8	460.4	459.9	459.5	458.9	458.4	457.8	457.2	456.4
132.5°	484.4	484.7	484.5	484.1	483.8	483.5	482.8	482.2	481.5	480.8	480.1
135°	519.1	519.5	519.4	519.2	519.1	518.9	518.3	517.8	517.2	516.7	516.3
137.5°	551.8	552.3	552.7	553.1	553.5	553.8	553.2	552.6	552.0	551.5	550.9
140°	574.8	575.2	575.4	575.5	575.7	575.8	575.7	575.5	575.4	575.2	574.6
142.5°	595.7	596.2	596.5	596.8	597.0	597.3	597.1	597.0	596.8	596.7	596.2
145°	626.8	627.2	627.6	628.0	628.4	628.9	628.7	628.5	628.4	628.3	627.9
147.5°	656.3	656.8	657.2	657.5	658.0	658.4	658.4	658.4	658.4	658.4	658.0
150°	675.4	675.6	675.9	676.2	676.5	676.7	676.7	676.7	676.7	676.7	676.3
152.5°	692.2	692.4	692.6	692.8	692.9	693.1	693.4	693.6	693.8	694.1	693.8
155°	716.4	716.4	716.6	716.8	716.9	717.0	717.6	718.2	718.8	719.3	719.1
157.5°	737.7	737.7	737.8	737.9	738.0	738.1	738.7	739.3	739.9	740.5	740.4
160°	751.1	750.9	750.9	750.9	750.9	750.9	751.7	752.3	753.0	753.7	753.8
162.5°	762.8	762.8	762.8	762.9	763.1	763.2	763.9	764.6	765.3	766.0	765.9
165°	778.6	778.3	778.3	778.3	778.3	778.3	779.2	780.1	780.9	781.8	781.7
167.5°	790.7	790.5	790.6	790.7	790.8	790.9	791.8	792.6	793.6	794.4	794.4
170°	797.8	797.5	797.5	797.5	797.5	797.5	798.6	799.5	800.6	801.5	801.5
172.5°	803.5	803.1	803.1	803.1	803.1	803.1	804.1	804.9	805.8	806.7	806.7
175°	809.3	809.1	809.1	809.1	809.1	809.1	809.9	810.8	811.6	812.4	812.4
177.5°	812.3	812.0	812.0	812.0	812.0	812.0	812.7	813.4	814.1	814.8	814.7
180°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1506.1	1505.5	1506.1	1503.9	1506.1	1505.5	1506.1	1512.6	1512.6	1513.1	1513.7
5°	1401.4	1400.8	1398.8	1392.7	1398.8	1400.8	1401.4	1403.5	1408.9	1418.4	1415.7
7.5°	1310.1	1309.2	1303.2	1303.4	1303.2	1309.2	1310.1	1315.4	1321.5	1327.3	1334.2
10°	1256.0	1256.6	1248.5	1243.8	1248.5	1256.6	1256.0	1260.8	1269.5	1274.3	1279.0
12.5°	1203.5	1200.4	1193.9	1188.6	1193.9	1200.4	1203.5	1207.1	1219.2	1224.4	1233.6
15°	1134.2	1127.4	1111.2	1112.5	1111.2	1127.4	1134.2	1131.4	1143.7	1150.4	1153.1
17.5°	1052.6	1047.6	1047.3	1037.8	1047.3	1047.6	1052.6	1058.0	1068.5	1075.8	1095.2
20°	1005.0	1001.5	1002.9	993.4	1002.9	1001.5	1005.0	1015.7	1022.5	1032.0	1047.6
22.5°	967.6	964.1	958.5	955.5	958.5	964.1	967.6	975.2	982.5	995.7	1004.3
25°	912.9	907.5	902.1	905.4	902.1	907.5	912.9	917.0	930.5	936.6	948.7
27.5°	858.2	854.2	848.8	848.1	848.8	854.2	858.2	862.1	869.6	879.9	894.5
30°	823.5	819.5	816.8	813.4	816.8	819.5	823.5	827.0	834.4	845.2	856.1
32.5°	788.4	787.6	782.7	782.0	782.7	787.6	788.4	793.9	801.3	811.7	820.9
35°	742.4	738.3	736.9	737.6	736.9	738.3	742.4	745.1	751.8	761.3	770.1
37.5°	698.6	693.2	690.8	688.4	690.8	693.2	698.6	699.0	705.9	712.3	724.2
40°	667.3	661.9	660.5	659.1	660.5	661.9	667.3	666.6	674.0	678.7	689.6
42.5°	632.1	629.9	629.0	626.6	629.0	629.9	632.1	635.7	639.9	646.8	655.0
45°	584.0	583.3	579.3	580.7	579.3	583.3	584.0	586.0	593.5	598.2	605.6
47.5°	533.4	530.4	527.5	529.4	527.5	530.4	533.4	536.1	541.1	546.9	556.8
50°	498.8	497.4	491.3	492.7	491.3	497.4	498.8	501.4	504.8	512.3	521.1
52.5°	464.1	458.9	456.7	455.8	456.7	458.9	464.1	466.8	470.7	479.2	485.9
55°	406.7	400.6	397.9	396.6	397.9	400.6	406.7	411.5	416.9	426.4	433.1
57.5°	350.4	348.8	346.6	348.1	346.6	348.8	350.4	358.3	363.5	371.0	379.3
60°	317.4	317.4	317.4	316.7	317.4	317.4	317.4	324.2	328.9	336.3	345.1
62.5°	292.0	290.3	289.8	290.8	289.8	290.3	292.0	294.9	299.6	304.4	312.1
65°	253.1	252.4	249.7	249.0	249.7	252.4	253.1	255.1	259.2	262.6	267.9
67.5°	216.5	214.0	213.2	212.2	213.2	214.0	216.5	218.2	220.8	225.2	227.9
70°	188.8	187.4	183.4	184.1	183.4	187.4	188.8	192.2	194.9	200.3	203.0
72.5°	159.0	157.6	156.9	155.9	156.9	157.6	159.0	162.4	165.1	171.1	175.4
75°	125.9	125.2	124.5	127.3	124.5	125.2	125.9	126.6	127.3	129.2	131.3
77.5°	100.8	100.8	101.3	100.1	101.3	100.8	100.8	100.8	100.8	101.9	102.3
80°	84.6	84.6	83.9	83.9	83.9	84.6	84.6	84.6	84.6	84.6	83.9
82.5°	67.8	68.4	68.8	67.7	68.8	68.4	67.8	68.9	69.4	68.4	68.8
85°	44.7	44.0	45.4	44.7	45.4	44.0	44.7	44.7	43.3	44.7	44.0
87.5°	23.7	22.6	22.7	23.3	22.7	22.6	23.7	22.6	22.5	22.4	21.7
90°	18.3	18.6	18.9	19.2	18.9	18.6	18.3	18.0	17.7	17.0	16.4
92.5°	26.3	26.2	26.0	25.8	26.0	26.2	26.3	26.5	26.3	25.9	25.5
95°	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.6	49.0	48.4
97.5°	76.9	76.8	76.7	76.7	76.7	76.8	76.9	76.9	76.6	75.9	75.3
100°	96.3	96.6	96.9	97.1	96.9	96.6	96.3	96.0	95.7	95.2	94.8
102.5°	118.3	118.2	118.1	118.1	118.1	118.2	118.3	118.3	118.1	117.7	117.3
105°	151.3	151.5	151.8	152.1	151.8	151.5	151.3	150.9	150.8	150.8	150.8
107.5°	188.0	187.9	187.7	187.5	187.7	187.9	188.0	188.2	188.0	187.6	187.1
110°	212.4	212.1	211.8	211.5	211.8	212.1	212.4	212.7	212.5	212.0	211.4



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	237.3	237.2	237.1	237.1	237.1	237.2	237.3	237.3	237.0	236.3	235.7
115°	272.7	272.5	272.4	272.2	272.4	272.5	272.7	272.9	272.9	272.7	272.5
117.5°	309.1	308.7	308.3	307.9	308.3	308.7	309.1	309.5	309.7	309.7	309.8
120°	333.8	333.6	333.2	332.9	333.2	333.6	333.8	334.1	334.3	334.4	334.6
122.5°	358.2	357.7	357.4	357.0	357.4	357.7	358.2	358.6	359.0	359.3	359.7
125°	394.8	394.2	393.6	393.0	393.6	394.2	394.8	395.3	395.9	396.4	397.0
127.5°	430.9	430.2	429.6	429.0	429.6	430.2	430.9	431.5	432.3	433.1	433.9
130°	455.5	454.4	453.5	452.5	453.5	454.4	455.5	456.4	457.2	457.8	458.4
132.5°	479.3	478.5	477.8	477.0	477.8	478.5	479.3	480.1	480.8	481.5	482.2
135°	515.9	515.7	515.4	515.1	515.4	515.7	515.9	516.3	516.7	517.2	517.8
137.5°	550.4	549.7	549.2	548.7	549.2	549.7	550.4	550.9	551.5	552.0	552.6
140°	573.7	572.7	571.7	570.7	571.7	572.7	573.7	574.6	575.2	575.4	575.5
142.5°	595.5	594.7	593.9	593.1	593.9	594.7	595.5	596.2	596.7	596.8	597.0
145°	627.3	626.8	626.2	625.7	626.2	626.8	627.3	627.9	628.3	628.4	628.5
147.5°	657.1	656.3	655.4	654.5	655.4	656.3	657.1	658.0	658.4	658.4	658.4
150°	675.5	674.7	673.8	673.0	673.8	674.7	675.5	676.3	676.7	676.7	676.7
152.5°	693.0	692.3	691.6	690.9	691.6	692.3	693.0	693.8	694.1	693.8	693.6
155°	718.1	717.1	716.1	715.1	716.1	717.1	718.1	719.1	719.3	718.8	718.2
157.5°	739.6	738.8	738.0	737.2	738.0	738.8	739.6	740.4	740.5	739.9	739.3
160°	753.3	752.7	752.1	751.6	752.1	752.7	753.3	753.8	753.7	753.0	752.3
162.5°	765.0	764.1	763.2	762.2	763.2	764.1	765.0	765.9	766.0	765.3	764.6
165°	780.8	779.7	778.8	777.7	778.8	779.7	780.8	781.7	781.8	780.9	780.1
167.5°	793.6	792.6	791.8	790.9	791.8	792.6	793.6	794.4	794.4	793.6	792.6
170°	800.6	799.5	798.6	797.5	798.6	799.5	800.6	801.5	801.5	800.6	799.5
172.5°	805.6	804.7	803.7	802.7	803.7	804.7	805.6	806.7	806.7	805.8	804.9
175°	811.4	810.4	809.4	808.4	809.4	810.4	811.4	812.4	812.4	811.6	810.8
177.5°	813.9	813.0	812.3	811.5	812.3	813.0	813.9	814.7	814.8	814.1	813.4
180°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1508.8	1516.4	1524.0	1531.0	1541.9	1546.7	1553.8	1556.4	1564.6	1576.5	1586.2
5°	1417.0	1427.9	1442.1	1453.6	1471.9	1486.1	1501.7	1516.6	1534.1	1559.2	1581.5
7.5°	1339.2	1350.0	1367.0	1388.4	1408.5	1428.7	1449.9	1470.2	1495.4	1531.3	1566.8
10°	1287.8	1300.6	1320.9	1343.9	1369.0	1388.6	1413.7	1439.4	1470.5	1511.8	1554.4
12.5°	1243.4	1253.0	1276.6	1298.5	1326.8	1351.9	1376.3	1406.4	1441.8	1485.8	1537.1
15°	1172.8	1186.3	1209.3	1233.6	1263.4	1289.9	1321.6	1358.1	1392.7	1446.8	1509.1
17.5°	1101.8	1122.4	1146.3	1173.8	1195.9	1232.3	1266.8	1304.3	1346.8	1404.2	1472.6
20°	1056.4	1072.6	1094.9	1134.9	1164.0	1191.7	1223.5	1270.2	1309.4	1374.4	1445.4
22.5°	1018.0	1029.8	1054.9	1087.8	1121.7	1153.8	1186.1	1230.7	1279.1	1340.8	1417.9
25°	961.0	979.9	998.8	1022.5	1059.0	1097.6	1132.8	1170.7	1222.2	1287.8	1371.1
27.5°	905.3	922.5	941.2	970.3	998.0	1034.1	1070.8	1114.3	1169.5	1239.0	1323.4
30°	869.6	882.4	900.0	937.3	962.3	993.4	1036.7	1075.3	1126.7	1200.5	1289.9
32.5°	832.8	849.4	868.7	897.2	928.2	957.7	997.2	1039.1	1091.6	1164.2	1255.7
35°	780.2	799.9	819.5	840.5	871.6	902.1	935.2	981.3	1034.7	1105.1	1195.1
37.5°	731.9	747.8	763.7	789.7	819.2	848.2	879.2	924.5	974.9	1050.9	1133.3
40°	701.1	715.3	727.5	754.6	783.0	814.1	844.6	884.5	938.6	1009.7	1089.5
42.5°	667.5	680.6	697.2	719.4	749.9	776.2	806.7	844.4	895.3	967.4	1037.5
45°	617.2	632.1	646.3	667.3	697.7	723.4	750.4	786.4	838.4	898.0	960.3
47.5°	564.8	579.7	595.9	616.2	642.7	668.9	695.9	727.7	775.2	833.7	875.6
50°	531.2	543.4	559.6	580.0	604.3	632.1	656.4	691.0	736.2	782.3	818.8
52.5°	496.5	507.6	526.1	547.4	570.2	594.2	620.2	649.8	690.8	734.1	763.1
55°	442.6	456.1	471.7	492.7	515.0	535.3	560.3	590.8	623.3	655.7	675.4
57.5°	392.1	403.3	416.5	438.1	457.4	481.7	504.1	527.9	557.9	582.4	595.2
60°	355.2	365.4	382.4	401.3	419.6	440.6	466.2	489.9	513.0	532.6	542.7
62.5°	320.6	332.4	347.2	364.5	384.4	404.2	426.7	446.6	466.9	483.9	490.8
65°	275.4	284.9	295.8	311.9	328.2	348.5	366.1	386.4	401.3	410.8	416.9
67.5°	234.3	240.5	248.7	259.6	275.5	293.3	310.3	326.1	338.6	345.1	350.5
70°	207.8	211.8	217.9	228.8	240.9	256.5	274.1	285.6	296.4	301.8	307.2
72.5°	181.2	186.4	191.9	200.6	210.6	221.8	234.5	248.7	254.7	261.2	264.5
75°	137.4	144.8	152.2	157.6	164.5	173.2	184.8	193.6	196.9	202.3	203.0
77.5°	103.7	105.3	110.7	117.4	123.1	129.5	136.8	144.6	146.3	149.1	150.9
80°	85.2	85.2	85.2	89.3	96.1	100.8	107.6	111.7	114.3	115.0	115.7
82.5°	68.4	68.4	67.9	68.8	71.2	73.8	80.0	84.6	86.8	86.4	84.9
85°	44.7	43.3	43.3	42.6	43.3	41.9	41.2	44.0	48.0	48.0	46.7
87.5°	21.6	20.9	21.1	20.2	19.3	18.3	16.4	16.7	16.4	18.3	17.5
90°	15.9	15.3	13.5	11.6	9.8	7.9	6.3	4.9	3.4	2.1	0.6
92.5°	25.0	24.5	23.5	22.5	21.4	20.3	19.3	18.3	17.4	16.4	15.5
95°	47.9	47.3	46.1	45.0	43.9	42.7	41.7	40.7	39.7	38.7	37.7
97.5°	74.6	74.0	73.2	72.3	71.5	70.7	69.9	69.2	68.4	67.7	67.0
100°	94.4	93.9	93.2	92.6	91.8	91.1	90.3	89.5	88.6	87.7	86.9
102.5°	116.8	116.4	115.5	114.6	113.7	112.7	111.9	111.4	111.0	110.5	109.9
105°	150.8	150.8	149.6	148.3	147.0	145.7	144.9	144.6	144.4	144.0	143.8
107.5°	186.7	186.2	185.7	185.2	184.7	184.2	183.8	183.7	183.5	183.3	183.1
110°	210.9	210.3	210.0	209.7	209.4	209.1	208.8	208.5	208.3	208.0	207.7



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	235.0	234.3	234.2	234.2	234.1	234.0	233.9	233.8	233.6	233.4	233.2
115°	272.4	272.2	272.5	272.9	273.1	273.4	273.3	272.9	272.4	272.0	271.6
117.5°	309.8	309.8	310.2	310.6	310.9	311.3	311.3	311.1	310.7	310.5	310.2
120°	334.8	334.8	335.6	336.3	337.0	337.7	337.7	336.8	336.0	335.1	334.2
122.5°	360.1	360.4	360.8	361.2	361.5	361.9	361.8	361.2	360.5	359.9	359.3
125°	397.6	398.1	398.4	398.7	399.0	399.2	399.2	398.8	398.4	398.0	397.5
127.5°	434.6	435.5	435.8	436.1	436.4	436.7	436.4	435.5	434.6	433.7	432.7
130°	458.9	459.5	459.9	460.4	460.8	461.2	460.8	459.7	458.6	457.4	456.3
132.5°	482.8	483.5	483.8	484.1	484.5	484.7	484.4	483.2	482.1	481.0	479.8
135°	518.3	518.9	519.1	519.2	519.4	519.5	519.1	518.3	517.5	516.6	515.7
137.5°	553.2	553.8	553.5	553.1	552.7	552.3	551.8	551.1	550.4	549.7	549.0
140°	575.7	575.8	575.7	575.5	575.4	575.2	574.8	574.1	573.4	572.7	572.0
142.5°	597.1	597.3	597.0	596.8	596.5	596.2	595.7	595.0	594.3	593.7	593.0
145°	628.7	628.9	628.4	628.0	627.6	627.2	626.8	626.5	626.2	625.9	625.7
147.5°	658.4	658.4	658.0	657.5	657.2	656.8	656.3	655.8	655.3	654.8	654.3
150°	676.7	676.7	676.5	676.2	675.9	675.6	675.4	675.1	674.8	674.5	674.2
152.5°	693.4	693.1	692.9	692.8	692.6	692.4	692.2	691.8	691.4	691.0	690.6
155°	717.6	717.0	716.9	716.8	716.6	716.4	716.4	716.4	716.4	716.4	716.4
157.5°	738.7	738.1	738.0	737.9	737.8	737.7	737.7	737.9	738.0	738.2	738.4
160°	751.7	750.9	750.9	750.9	750.9	750.9	751.1	751.3	751.7	751.9	752.2
162.5°	763.9	763.2	763.1	762.9	762.8	762.8	762.8	763.3	763.6	764.1	764.5
165°	779.2	778.3	778.3	778.3	778.3	778.3	778.6	779.0	779.5	779.9	780.3
167.5°	791.8	790.9	790.8	790.7	790.6	790.5	790.7	791.3	791.9	792.4	793.0
170°	798.6	797.5	797.5	797.5	797.5	797.5	797.8	798.4	799.0	799.5	800.1
172.5°	804.1	803.1	803.1	803.1	803.1	803.1	803.5	804.0	804.6	805.2	805.7
175°	809.9	809.1	809.1	809.1	809.1	809.1	809.3	809.9	810.5	811.1	811.6
177.5°	812.7	812.0	812.0	812.0	812.0	812.0	812.3	812.7	813.1	813.6	814.1
180°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1589.5	1595.4	1603.0	1614.4	1623.1	1630.6	1632.3	1634.4	1639.9	1649.0	1656.0
5°	1599.7	1615.3	1640.4	1664.7	1691.1	1712.8	1733.1	1747.3	1760.8	1789.2	1812.2
7.5°	1596.6	1631.2	1670.4	1714.2	1758.4	1801.3	1841.1	1876.6	1912.1	1953.5	2000.8
10°	1594.3	1635.0	1687.7	1743.9	1805.5	1865.7	1923.9	1969.3	2022.1	2069.4	2129.6
12.5°	1584.1	1642.5	1705.6	1777.4	1853.1	1922.5	1999.2	2061.8	2122.2	2190.6	2260.6
15°	1570.6	1641.8	1721.6	1817.0	1932.0	2015.9	2094.5	2203.4	2277.9	2352.3	2452.5
17.5°	1546.2	1632.9	1732.7	1856.7	1952.6	2065.4	2183.5	2269.6	2369.9	2474.8	2565.4
20°	1526.6	1627.5	1739.1	1861.0	1983.5	2105.9	2220.3	2323.2	2426.7	2547.9	2622.3
22.5°	1507.2	1607.0	1722.9	1852.4	1984.0	2113.0	2242.5	2363.3	2479.8	2602.0	2697.0
25°	1465.8	1584.2	1710.0	1842.0	1971.9	2114.1	2268.4	2403.1	2547.2	2673.1	2763.0
27.5°	1423.8	1532.3	1657.7	1791.6	1936.0	2103.9	2285.4	2438.5	2582.9	2673.1	2701.3
30°	1386.0	1501.0	1616.0	1752.0	1908.3	2095.8	2288.6	2463.9	2582.4	2621.6	2592.5
32.5°	1347.5	1451.7	1565.6	1705.0	1871.0	2075.8	2293.0	2448.8	2520.1	2490.1	2371.6
35°	1279.7	1373.7	1484.0	1623.4	1814.3	2064.7	2275.1	2380.7	2363.1	2193.9	1970.6
37.5°	1207.1	1283.8	1386.0	1531.7	1755.6	2020.7	2198.2	2213.8	2061.6	1801.8	1543.9
40°	1149.8	1218.7	1323.7	1475.9	1710.0	1977.4	2120.8	2057.9	1821.7	1532.8	1317.6
42.5°	1094.0	1152.2	1253.3	1417.5	1666.7	1918.4	2005.5	1868.5	1595.9	1322.8	1127.0
45°	999.5	1054.3	1155.8	1324.3	1578.1	1805.5	1794.0	1555.7	1283.1	1063.2	900.7
47.5°	909.9	957.9	1053.1	1225.1	1474.0	1636.3	1528.7	1275.2	1043.9	867.5	751.6
50°	846.5	894.0	988.7	1158.6	1390.7	1509.1	1355.5	1111.2	899.4	753.2	661.2
52.5°	785.9	832.2	918.9	1084.3	1290.0	1360.7	1195.8	969.3	792.7	666.6	587.5
55°	701.1	736.2	814.1	972.4	1126.1	1142.3	975.2	785.7	640.2	552.2	498.1
57.5°	614.6	644.9	721.8	847.9	955.6	947.3	788.8	624.9	526.9	461.5	422.2
60°	558.3	588.1	655.7	764.1	845.2	816.8	671.3	539.3	455.5	407.4	376.3
62.5°	505.8	529.1	592.4	671.4	729.9	697.7	573.9	464.6	398.0	357.6	332.9
65°	429.7	448.7	499.4	540.7	573.2	542.1	439.2	363.4	315.4	287.0	270.0
67.5°	357.4	369.5	401.6	416.5	439.4	405.2	330.3	279.5	252.2	228.2	216.5
70°	311.9	320.7	337.7	349.8	355.9	320.7	265.3	228.1	205.0	188.1	180.7
72.5°	266.5	274.2	277.6	287.6	284.5	251.5	213.3	183.7	167.1	155.7	146.0
75°	203.7	207.1	203.7	199.7	190.8	167.8	141.5	126.6	114.3	108.9	105.6
77.5°	148.4	147.4	142.8	136.5	121.4	106.9	92.7	87.7	82.4	79.6	78.4
80°	114.3	111.7	107.6	97.5	84.6	74.5	71.0	67.7	65.6	62.3	61.6
82.5°	85.2	83.5	76.7	68.2	59.2	54.4	51.6	50.4	48.3	46.6	46.4
85°	45.4	43.3	35.9	31.2	29.8	28.4	27.7	27.7	25.1	24.4	24.4
87.5°	15.1	12.1	11.8	10.5	10.8	10.1	11.0	10.2	10.1	10.8	9.8
90°	2.1	3.4	4.9	6.3	7.9	9.8	11.6	13.5	15.3	15.9	16.4
92.5°	16.4	17.4	18.3	19.3	20.3	21.4	22.5	23.5	24.5	25.0	25.5
95°	38.7	39.7	40.7	41.7	42.7	43.9	45.0	46.1	47.3	47.9	48.4
97.5°	67.7	68.4	69.2	69.9	70.7	71.5	72.3	73.2	74.0	74.6	75.3
100°	87.7	88.6	89.5	90.3	91.1	91.8	92.6	93.2	93.9	94.4	94.8
102.5°	110.5	111.0	111.4	111.9	112.7	113.7	114.6	115.5	116.4	116.8	117.3
105°	144.0	144.4	144.6	144.9	145.7	147.0	148.3	149.6	150.8	150.8	150.8
107.5°	183.3	183.5	183.7	183.8	184.2	184.7	185.2	185.7	186.2	186.7	187.1
110°	208.0	208.3	208.5	208.8	209.1	209.4	209.7	210.0	210.3	210.9	211.4



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	233.4	233.6	233.8	233.9	234.0	234.1	234.2	234.2	234.3	235.0	235.7
115°	272.0	272.4	272.9	273.3	273.4	273.1	272.9	272.5	272.2	272.4	272.5
117.5°	310.5	310.7	311.1	311.3	311.3	310.9	310.6	310.2	309.8	309.8	309.8
120°	335.1	336.0	336.8	337.7	337.7	337.0	336.3	335.6	334.8	334.8	334.6
122.5°	359.9	360.5	361.2	361.8	361.9	361.5	361.2	360.8	360.4	360.1	359.7
125°	398.0	398.4	398.8	399.2	399.2	399.0	398.7	398.4	398.1	397.6	397.0
127.5°	433.7	434.6	435.5	436.4	436.7	436.4	436.1	435.8	435.5	434.6	433.9
130°	457.4	458.6	459.7	460.8	461.2	460.8	460.4	459.9	459.5	458.9	458.4
132.5°	481.0	482.1	483.2	484.4	484.7	484.5	484.1	483.8	483.5	482.8	482.2
135°	516.6	517.5	518.3	519.1	519.5	519.4	519.2	519.1	518.9	518.3	517.8
137.5°	549.7	550.4	551.1	551.8	552.3	552.7	553.1	553.5	553.8	553.2	552.6
140°	572.7	573.4	574.1	574.8	575.2	575.4	575.5	575.7	575.8	575.7	575.5
142.5°	593.7	594.3	595.0	595.7	596.2	596.5	596.8	597.0	597.3	597.1	597.0
145°	625.9	626.2	626.5	626.8	627.2	627.6	628.0	628.4	628.9	628.7	628.5
147.5°	654.8	655.3	655.8	656.3	656.8	657.2	657.5	658.0	658.4	658.4	658.4
150°	674.5	674.8	675.1	675.4	675.6	675.9	676.2	676.5	676.7	676.7	676.7
152.5°	691.0	691.4	691.8	692.2	692.4	692.6	692.8	692.9	693.1	693.4	693.6
155°	716.4	716.4	716.4	716.4	716.4	716.6	716.8	716.9	717.0	717.6	718.2
157.5°	738.2	738.0	737.9	737.7	737.7	737.8	737.9	738.0	738.1	738.7	739.3
160°	751.9	751.7	751.3	751.1	750.9	750.9	750.9	750.9	750.9	751.7	752.3
162.5°	764.1	763.6	763.3	762.8	762.8	762.8	762.9	763.1	763.2	763.9	764.6
165°	779.9	779.5	779.0	778.6	778.3	778.3	778.3	778.3	778.3	779.2	780.1
167.5°	792.4	791.9	791.3	790.7	790.5	790.6	790.7	790.8	790.9	791.8	792.6
170°	799.5	799.0	798.4	797.8	797.5	797.5	797.5	797.5	797.5	798.6	799.5
172.5°	805.2	804.6	804.0	803.5	803.1	803.1	803.1	803.1	803.1	804.1	804.9
175°	811.1	810.5	809.9	809.3	809.1	809.1	809.1	809.1	809.1	809.9	810.8
177.5°	813.6	813.1	812.7	812.3	812.0	812.0	812.0	812.0	812.0	812.7	813.4
180°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1667.4	1667.4	1669.6	1677.7	1678.8	1685.8	1683.7
5°	1832.6	1845.4	1850.1	1870.4	1882.7	1888.1	1877.2
7.5°	2034.5	2070.8	2087.9	2109.2	2128.0	2133.7	2118.9
10°	2181.8	2219.7	2251.4	2271.1	2289.3	2301.5	2317.1
12.5°	2324.1	2370.7	2400.9	2428.6	2447.4	2462.9	2465.4
15°	2478.8	2549.2	2602.6	2641.9	2661.5	2671.7	2667.6
17.5°	2634.8	2700.1	2738.2	2778.2	2805.4	2806.8	2807.5
20°	2723.1	2786.7	2830.7	2860.5	2891.0	2889.6	2896.3
22.5°	2782.1	2832.2	2865.9	2887.5	2898.0	2892.9	2894.2
25°	2809.7	2824.6	2818.6	2784.0	2775.3	2743.4	2748.8
27.5°	2667.4	2596.9	2524.2	2430.5	2356.6	2297.6	2300.6
30°	2474.1	2349.6	2207.4	2088.4	1981.4	1951.6	1888.1
32.5°	2203.9	2017.2	1850.7	1739.7	1648.0	1623.1	1567.5
35°	1745.9	1564.6	1393.4	1290.5	1249.9	1193.1	1192.4
37.5°	1357.1	1197.4	1106.8	1029.7	989.2	954.8	951.5
40°	1141.6	1017.1	948.7	893.3	853.3	827.6	821.6
42.5°	991.1	890.4	826.4	792.0	761.3	748.0	738.1
45°	809.3	741.7	697.0	665.9	651.7	641.5	636.1
47.5°	677.0	631.6	601.2	580.5	568.9	558.3	561.1
50°	605.0	567.7	545.4	525.8	517.0	509.5	510.2
52.5°	547.1	513.7	495.6	481.4	470.5	465.2	462.6
55°	464.3	443.2	425.0	414.8	408.7	401.3	399.2
57.5°	396.0	379.8	364.9	353.4	351.9	344.7	345.7
60°	350.5	337.0	324.9	318.7	314.0	307.9	310.0
62.5°	313.1	301.8	290.8	285.7	280.9	276.5	277.4
65°	256.5	245.6	238.8	236.2	234.1	232.1	230.1
67.5°	204.4	197.8	193.6	187.7	183.6	182.9	180.8
70°	171.9	163.1	155.7	148.2	146.2	145.5	146.2
72.5°	137.8	132.2	130.2	126.6	126.1	124.4	125.6
75°	103.6	101.5	100.1	97.5	97.5	97.5	97.5
77.5°	76.4	75.1	74.3	73.8	73.1	72.2	72.0
80°	59.6	58.9	57.5	57.5	56.8	57.5	56.8
82.5°	44.9	44.8	43.5	43.5	42.8	42.4	42.8
85°	23.0	22.3	23.7	22.3	23.0	21.7	23.0
87.5°	9.9	10.0	9.6	9.6	9.1	10.2	9.2
90°	17.0	17.7	18.0	18.3	18.6	18.9	19.2
92.5°	25.9	26.3	26.5	26.3	26.2	26.0	25.8
95°	49.0	49.6	49.9	49.9	49.9	49.9	49.9
97.5°	75.9	76.6	76.9	76.9	76.8	76.7	76.7
100°	95.2	95.7	96.0	96.3	96.6	96.9	97.1
102.5°	117.7	118.1	118.3	118.3	118.2	118.1	118.1
105°	150.8	150.8	150.9	151.3	151.5	151.8	152.1
107.5°	187.6	188.0	188.2	188.0	187.9	187.7	187.5
110°	212.0	212.5	212.7	212.4	212.1	211.8	211.5



TEST NUMBER: P332475-935

CATALOG NUMBER: S123RDIW-S1165D755U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	236.3	237.0	237.3	237.3	237.2	237.1	237.1
115°	272.7	272.9	272.9	272.7	272.5	272.4	272.2
117.5°	309.7	309.7	309.5	309.1	308.7	308.3	307.9
120°	334.4	334.3	334.1	333.8	333.6	333.2	332.9
122.5°	359.3	359.0	358.6	358.2	357.7	357.4	357.0
125°	396.4	395.9	395.3	394.8	394.2	393.6	393.0
127.5°	433.1	432.3	431.5	430.9	430.2	429.6	429.0
130°	457.8	457.2	456.4	455.5	454.4	453.5	452.5
132.5°	481.5	480.8	480.1	479.3	478.5	477.8	477.0
135°	517.2	516.7	516.3	515.9	515.7	515.4	515.1
137.5°	552.0	551.5	550.9	550.4	549.7	549.2	548.7
140°	575.4	575.2	574.6	573.7	572.7	571.7	570.7
142.5°	596.8	596.7	596.2	595.5	594.7	593.9	593.1
145°	628.4	628.3	627.9	627.3	626.8	626.2	625.7
147.5°	658.4	658.4	658.0	657.1	656.3	655.4	654.5
150°	676.7	676.7	676.3	675.5	674.7	673.8	673.0
152.5°	693.8	694.1	693.8	693.0	692.3	691.6	690.9
155°	718.8	719.3	719.1	718.1	717.1	716.1	715.1
157.5°	739.9	740.5	740.4	739.6	738.8	738.0	737.2
160°	753.0	753.7	753.8	753.3	752.7	752.1	751.6
162.5°	765.3	766.0	765.9	765.0	764.1	763.2	762.2
165°	780.9	781.8	781.7	780.8	779.7	778.8	777.7
167.5°	793.6	794.4	794.4	793.6	792.6	791.8	790.9
170°	800.6	801.5	801.5	800.6	799.5	798.6	797.5
172.5°	805.8	806.7	806.7	805.6	804.7	803.7	802.7
175°	811.6	812.4	812.4	811.4	810.4	809.4	808.4
177.5°	814.1	814.8	814.7	813.9	813.0	812.3	811.5
180°	813.6	813.6	813.6	813.6	813.6	813.6	813.6

(END OF REPORT)