

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: P333096-830

Luminaire Tested: **S124RDIW-S1195D470U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333096-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1195D470U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6255.1 lumens
Efficiency: N/A
Efficacy: 119.4 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

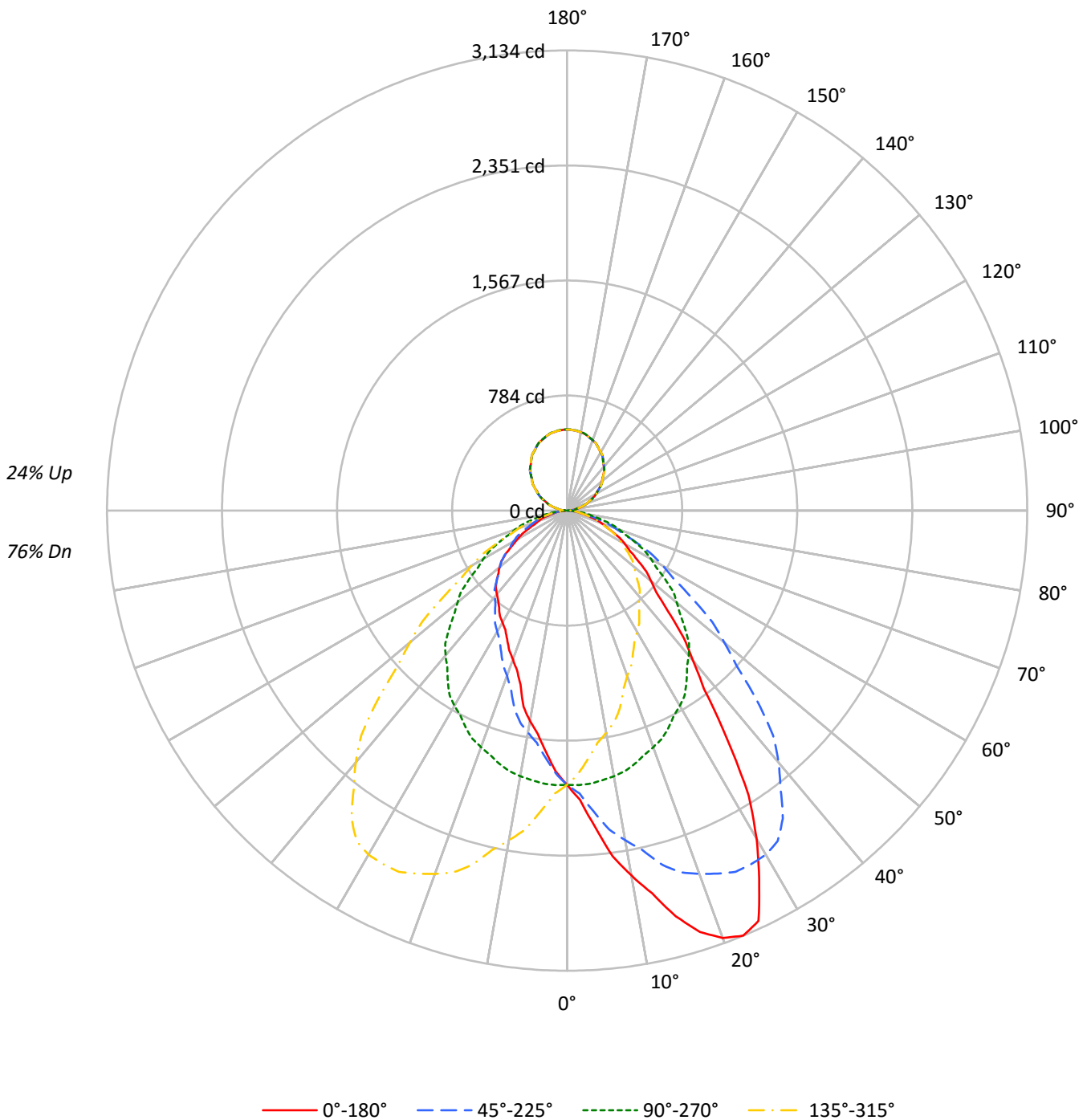
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-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	50	30	10	0	
RCR																						
0	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	80	80	80	76	
1	104	100	96	93	99	95	92	89	87	84	82	79	77	75	71	70	69	69	69	69	65	
2	95	88	82	77	91	84	79	74	77	73	69	70	67	64	64	61	59	59	59	59	56	
3	88	78	71	65	83	75	68	63	68	63	59	63	58	55	57	54	51	51	51	51	48	
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	48	44	44	44	44	42	
5	74	63	54	48	70	60	53	47	55	49	44	51	46	42	47	42	39	39	39	39	36	
6	69	56	48	42	65	54	47	41	50	44	39	46	41	37	42	38	35	35	35	35	32	
7	64	51	43	38	61	49	42	37	46	39	35	42	37	33	39	34	31	31	31	31	29	
8	59	47	39	34	56	45	38	33	42	36	31	39	33	30	36	31	28	28	28	28	26	
9	55	43	35	30	53	41	34	30	39	32	28	36	31	27	33	29	25	25	25	25	23	
10	52	40	32	27	50	38	31	27	36	30	26	33	28	24	31	26	23	23	23	23	21	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15079	15079	15079	15079
5°	17490	15124	13367	15124
10°	20690	15058	11931	15058
15°	23901	14919	10252	14919
20°	26611	14728	9271	14728
25°	27470	14539	8607	14539
30°	24047	14311	8207	14311
35°	18719	13973	7965	13973
40°	14037	13585	7835	13585
45°	11082	12965	7767	12965
50°	9357	12248	7542	12248
55°	8156	11461	7139	11461
60°	7338	10643	6318	10643
65°	6470	9761	5435	9761
70°	5828	8847	4902	8847
75°	4885	7842	4177	7842
80°	4128	6681	3919	6681
85°	3483	5233	3483	5233



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.9
10°-20°	545.9	8.7
20°-30°	853.8	13.7
30°-40°	949.2	15.2
40°-50°	842.2	13.5
50°-60°	656.2	10.5
60°-70°	429.6	6.9
70°-80°	211.3	3.4
80°-90°	53.8	0.9
90°-100°	36.4	0.6
100°-110°	107.9	1.7
110°-120°	183.1	2.9
120°-130°	241.5	3.9
130°-140°	271.2	4.3
140°-150°	266.5	4.3
150°-160°	224.1	3.6
160°-170°	149.1	2.4
170°-180°	52.2	0.8
0°-30°	1580.7	25.3
0°-40°	2529.9	40.4
0°-60°	4028.3	64.4
0°-90°	4723.0	75.5
90°-120°	327.5	5.2
90°-150°	1106.7	17.7
90°-180°	1532.0	24.5
0°-180°	6255.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	2158	1866	1650	1866	2158	218
15°	2860	1785	1227	1785	2860	813
25°	3084	1632	966	1632	3084	1368
35°	1899	1418	808	1418	1899	1191
45°	971	1136	680	1136	971	769
55°	580	814	507	814	580	527
65°	339	511	284	511	339	341
75°	157	251	134	251	157	172
85°	38	56	38	56	38	43
90°	13	1	13	1	13	8
95°	34	26	34	26	34	35
105°	104	100	104	100	104	110
115°	184	186	184	186	184	182
125°	269	271	269	271	269	240
135°	350	350	350	350	350	270
145°	425	425	425	425	425	266
155°	486	487	486	487	486	224
165°	529	530	529	530	529	149
175°	549	551	549	551	549	52
180°	552	552	552	552	552	



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1970.1	1975.6	1970.1	1969.5	1963.5	1961.7	1959.3	1951.4	1937.0	1928.6	1930.4
5°	2158.2	2177.1	2166.5	2165.0	2148.5	2131.9	2121.4	2097.3	2071.7	2054.5	2040.1
7.5°	2375.9	2386.7	2380.1	2369.6	2342.8	2327.6	2303.2	2271.4	2225.5	2190.5	2158.4
10°	2524.0	2533.0	2530.1	2510.5	2490.9	2451.0	2428.5	2384.1	2326.1	2280.2	2237.3
12.5°	2669.7	2679.4	2652.9	2653.7	2616.7	2585.3	2549.5	2493.6	2426.7	2367.5	2313.8
15°	2859.7	2847.6	2847.6	2832.5	2791.2	2747.5	2710.7	2651.9	2567.7	2496.9	2422.4
17.5°	3008.3	3012.6	3006.3	2970.9	2938.4	2893.2	2825.6	2757.1	2678.9	2583.9	2507.7
20°	3097.5	3097.5	3090.7	3066.6	3024.4	2976.3	2903.3	2828.8	2729.4	2633.8	2548.1
22.5°	3133.6	3135.9	3128.0	3108.1	3070.2	3023.2	2961.1	2885.4	2783.0	2675.4	2569.2
25°	3083.9	3098.2	3099.6	3094.5	3083.2	3054.5	3001.1	2923.6	2831.8	2715.2	2600.8
27.5°	2831.3	2849.4	2865.2	2891.2	2925.8	2943.9	2946.3	2906.9	2826.8	2714.5	2599.4
30°	2579.6	2594.7	2643.6	2707.6	2757.3	2802.5	2841.6	2852.1	2807.0	2706.1	2584.9
32.5°	2300.4	2320.8	2369.7	2438.5	2521.3	2597.7	2685.7	2730.5	2729.3	2668.8	2556.6
35°	1899.4	1914.5	1959.6	2031.8	2131.2	2244.9	2384.1	2492.4	2566.2	2560.9	2492.4
37.5°	1531.8	1548.9	1594.5	1654.4	1750.7	1891.4	2026.1	2175.4	2311.8	2388.4	2365.5
40°	1332.0	1332.8	1377.1	1438.9	1529.2	1651.8	1798.6	1964.1	2116.1	2240.3	2264.4
42.5°	1174.2	1174.4	1203.7	1270.3	1335.3	1450.8	1590.8	1755.2	1933.2	2076.5	2140.3
45°	970.7	977.5	1001.6	1041.5	1092.7	1190.5	1302.6	1455.4	1654.8	1824.9	1931.0
47.5°	822.1	832.0	847.3	879.9	920.7	985.8	1078.6	1215.8	1378.0	1565.1	1716.1
50°	745.0	746.5	766.1	784.1	819.5	871.5	952.7	1067.1	1216.1	1395.9	1563.8
52.5°	678.8	678.4	690.2	713.1	741.9	782.3	847.9	952.1	1084.2	1245.5	1418.7
55°	579.5	583.2	592.2	610.3	632.2	660.7	712.7	790.9	894.8	1032.5	1189.8
57.5°	503.9	505.9	512.9	520.6	540.6	561.4	600.4	654.7	742.3	855.1	1001.6
60°	454.5	455.2	457.5	468.8	484.7	504.2	530.6	576.5	650.2	753.3	869.2
62.5°	406.3	407.7	411.2	419.4	431.7	445.2	472.8	509.6	570.7	658.7	763.2
65°	338.7	339.4	344.7	347.7	357.4	369.5	389.8	414.6	456.8	530.6	609.5
67.5°	283.0	283.0	283.2	287.3	294.1	302.1	314.2	334.1	365.9	411.2	480.9
70°	246.9	246.9	248.4	250.6	254.4	261.1	267.9	283.0	306.3	343.2	396.6
72.5°	213.1	213.7	215.2	215.7	217.6	223.2	228.2	237.8	255.1	283.0	326.1
75°	156.6	158.8	162.6	165.6	169.3	168.5	173.8	179.8	185.1	201.7	226.5
77.5°	116.5	115.3	115.7	118.3	118.8	119.5	123.3	127.9	131.9	139.7	148.5
80°	88.8	88.8	91.0	91.8	91.0	91.8	95.6	97.8	99.3	102.4	110.7
82.5°	67.1	68.3	67.6	68.3	68.8	69.6	72.7	73.1	74.6	75.9	79.4
85°	37.6	38.4	39.1	37.6	37.6	37.6	39.1	39.9	41.4	40.6	42.1
87.5°	15.8	15.2	15.7	15.7	16.2	15.6	16.0	17.2	15.8	16.3	16.2
90°	12.8	12.6	12.4	12.3	12.1	11.7	11.1	10.6	10.0	9.4	8.7
92.5°	18.9	18.9	18.8	18.7	18.5	18.3	17.9	17.6	17.2	16.9	16.4
95°	33.7	33.7	33.7	33.7	33.7	33.6	33.3	33.0	32.7	32.4	31.8
97.5°	52.9	52.9	52.9	52.9	52.9	52.7	52.4	52.0	51.7	51.4	50.5
100°	66.2	66.2	66.2	66.2	66.2	66.1	65.9	65.7	65.5	65.3	64.5
102.5°	81.2	81.2	81.1	81.0	81.0	80.8	80.5	80.2	79.9	79.7	78.9
105°	104.2	104.0	103.7	103.4	103.1	102.8	102.5	102.3	101.9	101.6	101.2
107.5°	126.6	126.6	126.7	126.7	126.7	126.6	126.3	126.0	125.7	125.5	125.5
110°	142.6	142.3	142.0	141.8	141.5	141.5	141.7	141.9	142.0	142.2	142.3



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	159.0	159.0	158.9	158.9	158.8	158.8	158.8	158.9	158.9	159.0	159.1
115°	184.5	184.6	184.7	184.8	184.9	185.0	185.1	185.2	185.3	185.4	185.6
117.5°	208.8	209.0	209.2	209.3	209.5	209.8	210.1	210.5	210.8	211.0	211.2
120°	227.2	227.1	226.9	226.7	226.5	226.6	227.1	227.5	228.0	228.5	228.8
122.5°	242.6	242.9	243.3	243.6	243.9	244.3	244.6	245.0	245.2	245.6	245.7
125°	269.1	269.3	269.5	269.7	269.8	270.0	270.2	270.4	270.6	270.8	270.9
127.5°	293.6	293.8	293.9	294.1	294.2	294.4	294.5	294.7	294.9	295.1	295.3
130°	309.6	310.0	310.4	310.8	311.1	311.4	311.6	311.8	312.0	312.2	312.2
132.5°	326.8	326.9	327.1	327.2	327.3	327.5	327.7	327.9	328.1	328.3	328.4
135°	350.2	350.5	350.8	351.1	351.4	351.6	351.8	351.9	352.1	352.3	352.3
137.5°	374.9	374.8	374.8	374.8	374.7	374.8	375.0	375.2	375.5	375.8	375.6
140°	389.9	390.0	390.1	390.2	390.3	390.4	390.5	390.6	390.7	390.8	390.8
142.5°	405.0	405.0	405.0	405.0	405.0	405.1	405.1	405.1	405.1	405.1	405.2
145°	425.4	425.7	425.9	426.2	426.5	426.7	426.8	426.9	427.0	427.1	427.0
147.5°	446.1	446.2	446.3	446.4	446.5	446.6	446.6	446.7	446.8	446.9	447.0
150°	458.7	458.8	458.9	459.0	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	470.3	470.6	470.8	471.1	471.3	471.4	471.1	470.9	470.6	470.4	470.3
155°	486.4	486.8	487.2	487.6	488.0	488.0	487.6	487.2	486.8	486.4	486.5
157.5°	500.9	501.2	501.5	501.9	502.2	502.2	501.9	501.6	501.3	501.1	501.1
160°	509.1	509.5	510.1	510.6	511.0	511.1	510.9	510.6	510.3	510.0	510.1
162.5°	517.6	518.1	518.6	519.1	519.5	519.5	519.1	518.5	518.0	517.5	517.6
165°	528.8	529.1	529.5	529.9	530.3	530.2	529.6	529.0	528.5	527.9	528.1
167.5°	536.7	537.2	537.9	538.5	539.0	539.0	538.5	537.9	537.3	536.8	536.8
170°	541.1	541.8	542.4	543.1	543.8	543.8	543.3	542.7	542.2	541.6	541.5
172.5°	544.9	545.5	546.2	546.9	547.5	547.5	547.0	546.3	545.6	545.0	545.0
175°	548.8	549.5	550.2	550.8	551.5	551.5	550.8	550.2	549.5	548.8	548.9
177.5°	550.9	551.5	552.1	552.7	553.3	553.4	552.8	552.3	551.8	551.2	551.2
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1924.4	1916.0	1911.8	1902.1	1890.6	1884.6	1879.2	1871.4	1861.1	1850.3	1842.5
5°	2022.0	2004.0	1981.4	1954.4	1930.2	1907.0	1886.6	1866.3	1843.0	1818.9	1794.8
7.5°	2122.3	2086.8	2048.4	2004.0	1960.8	1921.6	1885.4	1850.8	1811.7	1776.6	1744.6
10°	2192.2	2144.0	2090.6	2034.1	1977.6	1928.7	1880.6	1836.9	1788.8	1745.9	1709.8
12.5°	2248.7	2192.2	2127.9	2057.6	1989.7	1930.5	1875.2	1818.3	1763.5	1717.0	1668.9
15°	2342.6	2265.1	2178.6	2094.3	2006.3	1925.7	1851.2	1785.0	1722.6	1657.1	1611.2
17.5°	2407.3	2315.3	2210.1	2108.8	2004.8	1909.8	1823.8	1745.0	1672.9	1606.1	1551.4
20°	2445.7	2344.1	2227.5	2112.3	1995.7	1894.1	1801.6	1714.3	1639.7	1567.5	1511.1
22.5°	2467.4	2354.9	2227.5	2107.0	1986.1	1876.0	1774.4	1683.6	1602.4	1530.2	1467.7
25°	2474.4	2353.9	2223.7	2085.3	1952.9	1836.2	1730.8	1632.2	1541.9	1469.7	1403.4
27.5°	2464.7	2322.9	2189.6	2047.5	1910.8	1787.9	1677.3	1573.7	1483.3	1405.7	1337.8
30°	2450.2	2298.2	2155.2	2007.8	1869.3	1751.1	1634.5	1535.2	1441.1	1360.6	1292.1
32.5°	2418.9	2268.1	2114.3	1963.2	1823.0	1701.2	1590.5	1490.6	1398.4	1316.1	1243.3
35°	2356.9	2204.1	2037.1	1882.1	1744.4	1618.0	1514.1	1417.8	1329.7	1241.7	1164.9
37.5°	2275.2	2119.1	1952.9	1783.2	1645.3	1526.0	1430.7	1340.3	1254.3	1173.9	1088.9
40°	2198.2	2056.0	1884.3	1715.8	1574.3	1459.2	1371.1	1289.1	1202.6	1122.8	1037.7
42.5°	2104.9	1983.7	1810.3	1641.2	1501.5	1390.5	1308.5	1228.3	1149.6	1072.2	983.5
45°	1949.1	1857.3	1694.7	1532.2	1391.5	1281.6	1206.4	1135.6	1066.3	992.6	909.1
47.5°	1770.6	1708.4	1568.1	1401.7	1271.5	1172.6	1099.9	1042.1	983.5	909.8	836.5
50°	1646.5	1606.7	1471.2	1319.2	1195.0	1104.0	1029.4	975.2	926.3	855.6	790.1
52.5°	1514.1	1492.9	1378.5	1233.1	1113.1	1023.9	960.3	911.4	862.0	803.2	742.0
55°	1312.4	1323.7	1226.6	1101.0	988.1	912.9	854.9	814.3	772.1	722.5	675.0
57.5°	1106.3	1147.5	1082.3	971.9	866.2	796.6	753.0	718.8	683.4	642.2	601.7
60°	982.8	1017.4	980.5	883.4	790.9	726.2	685.6	659.2	623.9	586.3	555.3
62.5°	862.4	899.5	877.6	799.2	713.2	657.6	621.7	597.2	570.9	538.1	506.1
65°	711.1	735.2	724.7	670.5	609.5	562.1	529.0	511.0	486.9	462.8	434.2
67.5°	544.7	591.2	585.0	556.3	503.6	466.6	444.9	429.0	407.0	389.1	369.7
70°	447.8	490.7	489.9	466.6	438.0	403.3	388.3	374.8	355.2	337.9	322.1
72.5°	366.5	405.8	411.6	393.7	374.2	348.0	333.6	324.2	305.2	293.3	280.5
75°	256.7	285.2	292.8	292.8	283.7	270.1	257.4	251.4	237.8	227.2	219.7
77.5°	168.2	186.3	198.0	200.8	202.2	197.7	187.1	182.9	172.5	168.7	161.5
80°	118.9	130.9	144.5	149.0	152.8	151.3	146.8	143.7	133.9	130.2	127.1
82.5°	82.2	88.8	99.9	109.9	108.8	112.7	108.8	106.4	99.1	97.6	94.6
85°	42.9	43.6	45.1	51.9	55.7	57.2	58.0	56.5	54.2	54.2	48.9
87.5°	16.0	15.3	16.3	16.1	16.5	18.8	20.4	20.7	19.1	17.5	15.9
90°	7.9	7.2	6.3	5.5	4.4	3.4	2.4	1.3	2.4	3.4	4.4
92.5°	15.8	15.4	14.8	13.9	12.7	11.5	10.4	9.1	10.4	11.5	12.7
95°	31.1	30.4	29.8	29.0	28.2	27.3	26.5	25.6	26.5	27.3	28.2
97.5°	49.8	49.0	48.3	47.5	46.8	46.1	45.4	44.8	45.4	46.1	46.8
100°	63.6	62.8	61.9	61.4	60.9	60.5	60.1	59.8	60.1	60.5	60.9
102.5°	78.1	77.4	76.6	76.2	76.0	75.8	75.7	75.5	75.7	75.8	76.0
105°	100.9	100.5	100.1	99.9	99.8	99.7	99.6	99.5	99.6	99.7	99.8
107.5°	125.4	125.4	125.3	125.2	125.1	125.0	124.8	124.7	124.8	125.0	125.1
110°	142.4	142.5	142.6	142.5	142.3	142.1	141.9	141.8	141.9	142.1	142.3



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.3	159.5	159.7	159.8	159.7	159.7	159.6	159.6	159.6	159.7	159.7
115°	185.8	186.0	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2
117.5°	211.3	211.5	211.6	211.6	211.6	211.5	211.4	211.3	211.4	211.5	211.6
120°	229.0	229.3	229.6	229.6	229.2	228.8	228.5	228.1	228.5	228.8	229.2
122.5°	245.8	246.0	246.1	246.1	245.9	245.8	245.6	245.5	245.6	245.8	245.9
125°	271.0	271.1	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
127.5°	295.4	295.6	295.8	295.7	295.4	295.1	294.8	294.5	294.8	295.1	295.4
130°	312.2	312.2	312.2	312.1	311.8	311.5	311.2	310.9	311.2	311.5	311.8
132.5°	328.4	328.5	328.6	328.5	328.3	328.1	327.9	327.6	327.9	328.1	328.3
135°	352.3	352.3	352.3	352.0	351.5	350.9	350.3	349.8	350.3	350.9	351.5
137.5°	375.5	375.3	375.1	374.9	374.7	374.4	374.2	373.9	374.2	374.4	374.7
140°	390.8	390.8	390.8	390.7	390.5	390.3	390.1	389.9	390.1	390.3	390.5
142.5°	405.3	405.4	405.5	405.4	405.2	405.0	404.8	404.6	404.8	405.0	405.2
145°	426.9	426.8	426.7	426.5	426.1	425.7	425.4	425.0	425.4	425.7	426.1
147.5°	447.0	447.0	447.1	447.0	446.5	446.0	445.5	445.2	445.5	446.0	446.5
150°	459.1	459.1	459.1	458.9	458.5	458.2	457.8	457.4	457.8	458.2	458.5
152.5°	470.2	470.1	470.1	470.0	469.8	469.5	469.3	469.0	469.3	469.5	469.8
155°	486.6	486.7	486.8	486.9	486.9	486.9	486.9	486.9	486.9	486.9	486.9
157.5°	501.1	501.1	501.1	501.2	501.4	501.6	501.7	501.9	501.7	501.6	501.4
160°	510.2	510.3	510.4	510.5	510.6	510.7	510.8	510.9	510.8	510.7	510.6
162.5°	517.6	517.7	517.8	518.0	518.3	518.5	518.8	519.1	518.8	518.5	518.3
165°	528.3	528.5	528.7	528.9	529.1	529.4	529.7	530.0	529.7	529.4	529.1
167.5°	536.8	536.7	536.7	536.9	537.3	537.7	538.1	538.5	538.1	537.7	537.3
170°	541.4	541.3	541.2	541.4	541.9	542.3	542.8	543.3	542.8	542.3	541.9
172.5°	545.0	544.9	544.9	545.1	545.5	545.9	546.3	546.7	546.3	545.9	545.5
175°	549.0	549.1	549.2	549.5	550.0	550.4	550.9	551.4	550.9	550.4	550.0
177.5°	551.2	551.2	551.2	551.4	551.8	552.1	552.5	552.9	552.5	552.1	551.8
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1834.1	1828.1	1820.2	1811.2	1800.4	1790.7	1786.5	1790.2	1792.0	1787.2	1786.5
5°	1778.2	1759.4	1744.4	1721.8	1703.7	1688.7	1678.2	1673.7	1675.2	1663.1	1660.1
7.5°	1715.5	1693.2	1668.5	1641.7	1616.7	1594.6	1583.0	1576.7	1564.0	1558.5	1549.4
10°	1675.2	1645.0	1621.0	1589.3	1560.8	1534.5	1521.6	1511.1	1498.3	1492.2	1479.5
12.5°	1633.6	1598.6	1572.2	1539.4	1510.1	1478.5	1466.2	1446.7	1426.6	1414.0	1397.6
15°	1575.1	1533.0	1500.5	1461.4	1426.8	1390.7	1358.3	1322.2	1308.6	1280.1	1263.5
17.5°	1506.6	1463.9	1423.8	1371.3	1317.9	1273.0	1238.5	1203.9	1183.2	1164.9	1156.5
20°	1461.4	1422.3	1366.6	1305.6	1246.2	1196.6	1168.7	1146.1	1123.5	1110.8	1101.7
22.5°	1418.7	1368.7	1304.0	1238.2	1178.7	1139.9	1116.3	1093.2	1074.8	1062.6	1050.6
25°	1347.1	1281.6	1213.1	1137.8	1097.2	1063.4	1037.7	1018.9	1007.7	991.8	985.8
27.5°	1273.5	1194.1	1118.6	1068.0	1025.7	994.7	972.4	958.3	944.0	933.9	926.0
30°	1216.8	1136.3	1068.6	1020.4	977.5	952.0	933.9	917.4	906.1	897.8	891.7
32.5°	1160.8	1080.3	1023.4	971.7	937.8	912.9	893.5	881.2	872.3	861.7	858.0
35°	1079.9	1008.4	958.8	912.1	877.4	854.9	839.8	827.1	819.5	816.5	814.3
37.5°	1002.1	943.5	890.1	851.9	821.0	803.2	785.5	779.2	774.0	768.6	771.1
40°	952.7	897.8	850.4	809.7	784.9	765.3	754.8	747.2	742.7	742.7	742.7
42.5°	909.9	856.2	810.0	773.6	748.8	732.3	720.5	714.2	712.7	712.1	715.7
45°	843.6	793.9	747.2	717.2	696.1	679.6	672.8	667.5	667.5	670.5	671.3
47.5°	777.8	731.3	693.8	660.2	640.8	630.5	624.6	621.9	622.2	625.2	628.7
50°	737.4	691.5	654.7	624.6	606.5	596.7	591.4	590.0	591.4	591.4	596.7
52.5°	693.5	652.4	616.1	590.9	570.4	561.3	558.4	556.3	557.1	559.6	561.8
55°	629.1	592.2	557.6	533.6	518.5	512.5	505.7	506.4	504.9	506.4	506.4
57.5°	564.6	531.4	499.3	480.1	466.8	458.2	450.7	452.9	450.6	450.3	449.1
60°	523.0	486.9	461.3	444.0	429.0	421.4	414.6	416.1	413.9	412.4	409.3
62.5°	477.9	447.8	423.4	406.7	394.6	385.9	379.1	377.6	372.4	367.2	360.6
65°	412.4	387.6	365.7	350.0	338.7	331.9	326.6	322.1	310.8	298.8	292.8
67.5°	348.7	330.8	310.5	297.1	287.9	279.1	269.0	261.3	250.7	244.1	240.3
70°	307.7	290.5	273.1	260.3	250.6	242.3	231.0	225.7	218.2	215.2	211.5
72.5°	268.6	252.5	236.5	224.9	214.4	208.0	199.2	193.9	190.6	189.4	185.6
75°	209.2	196.4	184.4	173.8	165.6	161.1	157.3	153.5	152.0	145.2	141.5
77.5°	152.6	144.2	136.7	129.1	123.3	120.3	113.0	108.7	106.1	102.9	102.2
80°	118.9	112.9	105.4	100.9	92.6	89.5	86.5	85.8	85.0	84.3	83.5
82.5°	89.4	83.4	75.9	73.1	70.9	69.1	67.3	66.5	65.8	66.3	66.1
85°	45.1	42.1	42.1	41.4	40.6	39.9	39.1	39.1	38.4	39.1	38.4
87.5°	16.1	15.7	15.8	14.8	15.6	15.7	15.3	15.4	16.0	15.0	15.1
90°	5.5	6.3	7.2	7.9	8.7	9.4	10.0	10.6	11.1	11.7	12.1
92.5°	13.9	14.8	15.4	15.8	16.4	16.9	17.2	17.6	17.9	18.3	18.5
95°	29.0	29.8	30.4	31.1	31.8	32.4	32.7	33.0	33.3	33.6	33.7
97.5°	47.5	48.3	49.0	49.8	50.5	51.4	51.7	52.0	52.4	52.7	52.9
100°	61.4	61.9	62.8	63.6	64.5	65.3	65.5	65.7	65.9	66.1	66.2
102.5°	76.2	76.6	77.4	78.1	78.9	79.7	79.9	80.2	80.5	80.8	81.0
105°	99.9	100.1	100.5	100.9	101.2	101.6	101.9	102.3	102.5	102.8	103.1
107.5°	125.2	125.3	125.4	125.4	125.5	125.5	125.7	126.0	126.3	126.6	126.7
110°	142.5	142.6	142.5	142.4	142.3	142.2	142.0	141.9	141.7	141.5	141.5



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	159.8	159.7	159.5	159.3	159.1	159.0	158.9	158.9	158.8	158.8	158.8
115°	186.2	186.2	186.0	185.8	185.6	185.4	185.3	185.2	185.1	185.0	184.9
117.5°	211.6	211.6	211.5	211.3	211.2	211.0	210.8	210.5	210.1	209.8	209.5
120°	229.6	229.6	229.3	229.0	228.8	228.5	228.0	227.5	227.1	226.6	226.5
122.5°	246.1	246.1	246.0	245.8	245.7	245.6	245.2	245.0	244.6	244.3	243.9
125°	271.2	271.2	271.1	271.0	270.9	270.8	270.6	270.4	270.2	270.0	269.8
127.5°	295.7	295.8	295.6	295.4	295.3	295.1	294.9	294.7	294.5	294.4	294.2
130°	312.1	312.2	312.2	312.2	312.2	312.2	312.0	311.8	311.6	311.4	311.1
132.5°	328.5	328.6	328.5	328.4	328.4	328.3	328.1	327.9	327.7	327.5	327.3
135°	352.0	352.3	352.3	352.3	352.3	352.3	352.1	351.9	351.8	351.6	351.4
137.5°	374.9	375.1	375.3	375.5	375.6	375.8	375.5	375.2	375.0	374.8	374.7
140°	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.6	390.5	390.4	390.3
142.5°	405.4	405.5	405.4	405.3	405.2	405.1	405.1	405.1	405.1	405.1	405.0
145°	426.5	426.7	426.8	426.9	427.0	427.1	427.0	426.9	426.8	426.7	426.5
147.5°	447.0	447.1	447.0	447.0	447.0	446.9	446.8	446.7	446.6	446.6	446.5
150°	458.9	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	470.0	470.1	470.1	470.2	470.3	470.4	470.6	470.9	471.1	471.4	471.3
155°	486.9	486.8	486.7	486.6	486.5	486.4	486.8	487.2	487.6	488.0	488.0
157.5°	501.2	501.1	501.1	501.1	501.1	501.1	501.3	501.6	501.9	502.2	502.2
160°	510.5	510.4	510.3	510.2	510.1	510.0	510.3	510.6	510.9	511.1	511.0
162.5°	518.0	517.8	517.7	517.6	517.6	517.5	518.0	518.5	519.1	519.5	519.5
165°	528.9	528.7	528.5	528.3	528.1	527.9	528.5	529.0	529.6	530.2	530.3
167.5°	536.9	536.7	536.7	536.8	536.8	536.8	537.3	537.9	538.5	539.0	539.0
170°	541.4	541.2	541.3	541.4	541.5	541.6	542.2	542.7	543.3	543.8	543.8
172.5°	545.1	544.9	544.9	545.0	545.0	545.0	545.6	546.3	547.0	547.5	547.5
175°	549.5	549.2	549.1	549.0	548.9	548.8	549.5	550.2	550.8	551.5	551.5
177.5°	551.4	551.2	551.2	551.2	551.2	551.2	551.8	552.3	552.8	553.4	553.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1782.9	1784.1	1779.9	1778.7	1779.9	1784.1	1782.9	1786.5	1787.2	1792.0	1790.2
5°	1654.1	1652.6	1648.8	1649.5	1648.8	1652.6	1654.1	1660.1	1663.1	1675.2	1673.7
7.5°	1543.9	1538.0	1539.6	1533.7	1539.6	1538.0	1543.9	1549.4	1558.5	1564.0	1576.7
10°	1476.5	1468.2	1461.4	1455.4	1461.4	1468.2	1476.5	1479.5	1492.2	1498.3	1511.1
12.5°	1384.4	1377.2	1368.1	1369.9	1368.1	1377.2	1384.4	1397.6	1414.0	1426.6	1446.7
15°	1253.7	1242.5	1224.4	1226.6	1224.4	1242.5	1253.7	1263.5	1280.1	1308.6	1322.2
17.5°	1143.1	1143.2	1135.0	1136.9	1135.0	1143.2	1143.1	1156.5	1164.9	1183.2	1203.9
20°	1085.9	1080.6	1081.4	1079.1	1081.4	1080.6	1085.9	1101.7	1110.8	1123.5	1146.1
22.5°	1046.1	1039.7	1034.4	1029.7	1034.4	1039.7	1046.1	1050.6	1062.6	1074.8	1093.2
25°	979.0	974.5	967.8	966.3	967.8	974.5	979.0	985.8	991.8	1007.7	1018.9
27.5°	920.0	919.2	916.4	912.9	916.4	919.2	920.0	926.0	933.9	944.0	958.3
30°	885.7	884.2	882.7	880.4	882.7	884.2	885.7	891.7	897.8	906.1	917.4
32.5°	855.1	854.1	852.6	852.8	852.6	854.1	855.1	858.0	861.7	872.3	881.2
35°	811.2	810.5	809.0	808.2	809.0	810.5	811.2	814.3	816.5	819.5	827.1
37.5°	770.3	772.2	771.4	771.2	771.4	772.2	770.3	771.1	768.6	774.0	779.2
40°	742.0	742.7	744.2	743.5	744.2	742.7	742.0	742.7	742.7	742.7	747.2
42.5°	718.5	718.7	720.8	718.2	720.8	718.7	718.5	715.7	712.1	712.7	714.2
45°	676.6	681.1	680.3	680.3	680.3	681.1	676.6	671.3	670.5	667.5	667.5
47.5°	630.7	634.5	635.6	635.5	635.6	634.5	630.7	628.7	625.2	622.2	621.9
50°	600.5	599.0	601.2	600.5	601.2	599.0	600.5	596.7	591.4	591.4	590.0
52.5°	563.8	564.1	563.9	563.2	563.9	564.1	563.8	561.8	559.6	557.1	556.3
55°	507.2	507.9	506.4	507.2	506.4	507.9	507.2	506.4	506.4	504.9	506.4
57.5°	445.8	442.1	443.7	441.9	443.7	442.1	445.8	449.1	450.3	450.6	452.9
60°	401.9	395.9	394.4	391.3	394.4	395.9	401.9	409.3	412.4	413.9	416.1
62.5°	352.5	348.3	343.2	345.5	343.2	348.3	352.5	360.6	367.2	372.4	377.6
65°	286.7	283.7	281.4	284.5	281.4	283.7	286.7	292.8	298.8	310.8	322.1
67.5°	237.3	235.7	235.7	234.2	235.7	235.7	237.3	240.3	244.1	250.7	261.3
70°	211.5	209.2	209.2	207.7	209.2	209.2	211.5	211.5	215.2	218.2	225.7
72.5°	184.9	182.8	183.3	182.4	183.3	182.8	184.9	185.6	189.4	190.6	193.9
75°	137.0	133.2	133.2	133.9	133.2	133.2	137.0	141.5	145.2	152.0	153.5
77.5°	102.2	101.4	102.5	101.1	102.5	101.4	102.2	102.2	102.9	106.1	108.7
80°	83.5	82.8	82.0	84.3	82.0	82.8	83.5	83.5	84.3	85.0	85.8
82.5°	64.8	64.8	64.6	67.4	64.6	64.8	64.8	66.1	66.3	65.8	66.5
85°	39.1	37.6	39.1	37.6	39.1	37.6	39.1	38.4	39.1	38.4	39.1
87.5°	16.3	15.7	15.2	15.8	15.2	15.7	16.3	15.1	15.0	16.0	15.4
90°	12.3	12.4	12.6	12.8	12.6	12.4	12.3	12.1	11.7	11.1	10.6
92.5°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.5	18.3	17.9	17.6
95°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.6	33.3	33.0
97.5°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.7	52.4	52.0
100°	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.1	65.9	65.7
102.5°	81.0	81.1	81.2	81.2	81.2	81.1	81.0	81.0	80.8	80.5	80.2
105°	103.4	103.7	104.0	104.2	104.0	103.7	103.4	103.1	102.8	102.5	102.3
107.5°	126.7	126.7	126.6	126.6	126.6	126.7	126.7	126.7	126.6	126.3	126.0
110°	141.8	142.0	142.3	142.6	142.3	142.0	141.8	141.5	141.5	141.7	141.9



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	158.9	158.9	159.0	159.0	159.0	158.9	158.9	158.8	158.8	158.8	158.9
115°	184.8	184.7	184.6	184.5	184.6	184.7	184.8	184.9	185.0	185.1	185.2
117.5°	209.3	209.2	209.0	208.8	209.0	209.2	209.3	209.5	209.8	210.1	210.5
120°	226.7	226.9	227.1	227.2	227.1	226.9	226.7	226.5	226.6	227.1	227.5
122.5°	243.6	243.3	242.9	242.6	242.9	243.3	243.6	243.9	244.3	244.6	245.0
125°	269.7	269.5	269.3	269.1	269.3	269.5	269.7	269.8	270.0	270.2	270.4
127.5°	294.1	293.9	293.8	293.6	293.8	293.9	294.1	294.2	294.4	294.5	294.7
130°	310.8	310.4	310.0	309.6	310.0	310.4	310.8	311.1	311.4	311.6	311.8
132.5°	327.2	327.1	326.9	326.8	326.9	327.1	327.2	327.3	327.5	327.7	327.9
135°	351.1	350.8	350.5	350.2	350.5	350.8	351.1	351.4	351.6	351.8	351.9
137.5°	374.8	374.8	374.8	374.9	374.8	374.8	374.8	374.7	374.8	375.0	375.2
140°	390.2	390.1	390.0	389.9	390.0	390.1	390.2	390.3	390.4	390.5	390.6
142.5°	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.1	405.1	405.1
145°	426.2	425.9	425.7	425.4	425.7	425.9	426.2	426.5	426.7	426.8	426.9
147.5°	446.4	446.3	446.2	446.1	446.2	446.3	446.4	446.5	446.6	446.6	446.7
150°	459.0	458.9	458.8	458.7	458.8	458.9	459.0	459.1	459.1	459.1	459.1
152.5°	471.1	470.8	470.6	470.3	470.6	470.8	471.1	471.3	471.4	471.1	470.9
155°	487.6	487.2	486.8	486.4	486.8	487.2	487.6	488.0	488.0	487.6	487.2
157.5°	501.9	501.5	501.2	500.9	501.2	501.5	501.9	502.2	502.2	501.9	501.6
160°	510.6	510.1	509.5	509.1	509.5	510.1	510.6	511.0	511.1	510.9	510.6
162.5°	519.1	518.6	518.1	517.6	518.1	518.6	519.1	519.5	519.5	519.1	518.5
165°	529.9	529.5	529.1	528.8	529.1	529.5	529.9	530.3	530.2	529.6	529.0
167.5°	538.5	537.9	537.2	536.7	537.2	537.9	538.5	539.0	539.0	538.5	537.9
170°	543.1	542.4	541.8	541.1	541.8	542.4	543.1	543.8	543.8	543.3	542.7
172.5°	546.9	546.2	545.5	544.9	545.5	546.2	546.9	547.5	547.5	547.0	546.3
175°	550.8	550.2	549.5	548.8	549.5	550.2	550.8	551.5	551.5	550.8	550.2
177.5°	552.7	552.1	551.5	550.9	551.5	552.1	552.7	553.3	553.4	552.8	552.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1786.5	1790.7	1800.4	1811.2	1820.2	1828.1	1834.1	1842.5	1850.3	1861.1	1871.4
5°	1678.2	1688.7	1703.7	1721.8	1744.4	1759.4	1778.2	1794.8	1818.9	1843.0	1866.3
7.5°	1583.0	1594.6	1616.7	1641.7	1668.5	1693.2	1715.5	1744.6	1776.6	1811.7	1850.8
10°	1521.6	1534.5	1560.8	1589.3	1621.0	1645.0	1675.2	1709.8	1745.9	1788.8	1836.9
12.5°	1466.2	1478.5	1510.1	1539.4	1572.2	1598.6	1633.6	1668.9	1717.0	1763.5	1818.3
15°	1358.3	1390.7	1426.8	1461.4	1500.5	1533.0	1575.1	1611.2	1657.1	1722.6	1785.0
17.5°	1238.5	1273.0	1317.9	1371.3	1423.8	1463.9	1506.6	1551.4	1606.1	1672.9	1745.0
20°	1168.7	1196.6	1246.2	1305.6	1366.6	1422.3	1461.4	1511.1	1567.5	1639.7	1714.3
22.5°	1116.3	1139.9	1178.7	1238.2	1304.0	1368.7	1418.7	1467.7	1530.2	1602.4	1683.6
25°	1037.7	1063.4	1097.2	1137.8	1213.1	1281.6	1347.1	1403.4	1469.7	1541.9	1632.2
27.5°	972.4	994.7	1025.7	1068.0	1118.6	1194.1	1273.5	1337.8	1405.7	1483.3	1573.7
30°	933.9	952.0	977.5	1020.4	1068.6	1136.3	1216.8	1292.1	1360.6	1441.1	1535.2
32.5°	893.5	912.9	937.8	971.7	1023.4	1080.3	1160.8	1243.3	1316.1	1398.4	1490.6
35°	839.8	854.9	877.4	912.1	958.8	1008.4	1079.9	1164.9	1241.7	1329.7	1417.8
37.5°	785.5	803.2	821.0	851.9	890.1	943.5	1002.1	1088.9	1173.9	1254.3	1340.3
40°	754.8	765.3	784.9	809.7	850.4	897.8	952.7	1037.7	1122.8	1202.6	1289.1
42.5°	720.5	732.3	748.8	773.6	810.0	856.2	909.9	983.5	1072.2	1149.6	1228.3
45°	672.8	679.6	696.1	717.2	747.2	793.9	843.6	909.1	992.6	1066.3	1135.6
47.5°	624.6	630.5	640.8	660.2	693.8	731.3	777.8	836.5	909.8	983.5	1042.1
50°	591.4	596.7	606.5	624.6	654.7	691.5	737.4	790.1	855.6	926.3	975.2
52.5°	558.4	561.3	570.4	590.9	616.1	652.4	693.5	742.0	803.2	862.0	911.4
55°	505.7	512.5	518.5	533.6	557.6	592.2	629.1	675.0	722.5	772.1	814.3
57.5°	450.7	458.2	466.8	480.1	499.3	531.4	564.6	601.7	642.2	683.4	718.8
60°	414.6	421.4	429.0	444.0	461.3	486.9	523.0	555.3	586.3	623.9	659.2
62.5°	379.1	385.9	394.6	406.7	423.4	447.8	477.9	506.1	538.1	570.9	597.2
65°	326.6	331.9	338.7	350.0	365.7	387.6	412.4	434.2	462.8	486.9	511.0
67.5°	269.0	279.1	287.9	297.1	310.5	330.8	348.7	369.7	389.1	407.0	429.0
70°	231.0	242.3	250.6	260.3	273.1	290.5	307.7	322.1	337.9	355.2	374.8
72.5°	199.2	208.0	214.4	224.9	236.5	252.5	268.6	280.5	293.3	305.2	324.2
75°	157.3	161.1	165.6	173.8	184.4	196.4	209.2	219.7	227.2	237.8	251.4
77.5°	113.0	120.3	123.3	129.1	136.7	144.2	152.6	161.5	168.7	172.5	182.9
80°	86.5	89.5	92.6	100.9	105.4	112.9	118.9	127.1	130.2	133.9	143.7
82.5°	67.3	69.1	70.9	73.1	75.9	83.4	89.4	94.6	97.6	99.1	106.4
85°	39.1	39.9	40.6	41.4	42.1	42.1	45.1	48.9	54.2	54.2	56.5
87.5°	15.3	15.7	15.6	14.8	15.8	15.7	16.1	15.9	17.5	19.1	20.7
90°	10.0	9.4	8.7	7.9	7.2	6.3	5.5	4.4	3.4	2.4	1.3
92.5°	17.2	16.9	16.4	15.8	15.4	14.8	13.9	12.7	11.5	10.4	9.1
95°	32.7	32.4	31.8	31.1	30.4	29.8	29.0	28.2	27.3	26.5	25.6
97.5°	51.7	51.4	50.5	49.8	49.0	48.3	47.5	46.8	46.1	45.4	44.8
100°	65.5	65.3	64.5	63.6	62.8	61.9	61.4	60.9	60.5	60.1	59.8
102.5°	79.9	79.7	78.9	78.1	77.4	76.6	76.2	76.0	75.8	75.7	75.5
105°	101.9	101.6	101.2	100.9	100.5	100.1	99.9	99.8	99.7	99.6	99.5
107.5°	125.7	125.5	125.5	125.4	125.4	125.3	125.2	125.1	125.0	124.8	124.7
110°	142.0	142.2	142.3	142.4	142.5	142.6	142.5	142.3	142.1	141.9	141.8



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	158.9	159.0	159.1	159.3	159.5	159.7	159.8	159.7	159.7	159.6	159.6
115°	185.3	185.4	185.6	185.8	186.0	186.2	186.2	186.2	186.2	186.2	186.2
117.5°	210.8	211.0	211.2	211.3	211.5	211.6	211.6	211.6	211.5	211.4	211.3
120°	228.0	228.5	228.8	229.0	229.3	229.6	229.6	229.2	228.8	228.5	228.1
122.5°	245.2	245.6	245.7	245.8	246.0	246.1	246.1	245.9	245.8	245.6	245.5
125°	270.6	270.8	270.9	271.0	271.1	271.2	271.2	271.2	271.2	271.2	271.2
127.5°	294.9	295.1	295.3	295.4	295.6	295.8	295.7	295.4	295.1	294.8	294.5
130°	312.0	312.2	312.2	312.2	312.2	312.2	312.1	311.8	311.5	311.2	310.9
132.5°	328.1	328.3	328.4	328.4	328.5	328.6	328.5	328.3	328.1	327.9	327.6
135°	352.1	352.3	352.3	352.3	352.3	352.3	352.0	351.5	350.9	350.3	349.8
137.5°	375.5	375.8	375.6	375.5	375.3	375.1	374.9	374.7	374.4	374.2	373.9
140°	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.5	390.3	390.1	389.9
142.5°	405.1	405.1	405.2	405.3	405.4	405.5	405.4	405.2	405.0	404.8	404.6
145°	427.0	427.1	427.0	426.9	426.8	426.7	426.5	426.1	425.7	425.4	425.0
147.5°	446.8	446.9	447.0	447.0	447.0	447.1	447.0	446.5	446.0	445.5	445.2
150°	459.1	459.1	459.1	459.1	459.1	459.1	458.9	458.5	458.2	457.8	457.4
152.5°	470.6	470.4	470.3	470.2	470.1	470.1	470.0	469.8	469.5	469.3	469.0
155°	486.8	486.4	486.5	486.6	486.7	486.8	486.9	486.9	486.9	486.9	486.9
157.5°	501.3	501.1	501.1	501.1	501.1	501.1	501.2	501.4	501.6	501.7	501.9
160°	510.3	510.0	510.1	510.2	510.3	510.4	510.5	510.6	510.7	510.8	510.9
162.5°	518.0	517.5	517.6	517.6	517.7	517.8	518.0	518.3	518.5	518.8	519.1
165°	528.5	527.9	528.1	528.3	528.5	528.7	528.9	529.1	529.4	529.7	530.0
167.5°	537.3	536.8	536.8	536.8	536.7	536.7	536.9	537.3	537.7	538.1	538.5
170°	542.2	541.6	541.5	541.4	541.3	541.2	541.4	541.9	542.3	542.8	543.3
172.5°	545.6	545.0	545.0	545.0	544.9	544.9	545.1	545.5	545.9	546.3	546.7
175°	549.5	548.8	548.9	549.0	549.1	549.2	549.5	550.0	550.4	550.9	551.4
177.5°	551.8	551.2	551.2	551.2	551.2	551.2	551.4	551.8	552.1	552.5	552.9
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1879.2	1884.6	1890.6	1902.1	1911.8	1916.0	1924.4	1930.4	1928.6	1937.0	1951.4
5°	1886.6	1907.0	1930.2	1954.4	1981.4	2004.0	2022.0	2040.1	2054.5	2071.7	2097.3
7.5°	1885.4	1921.6	1960.8	2004.0	2048.4	2086.8	2122.3	2158.4	2190.5	2225.5	2271.4
10°	1880.6	1928.7	1977.6	2034.1	2090.6	2144.0	2192.2	2237.3	2280.2	2326.1	2384.1
12.5°	1875.2	1930.5	1989.7	2057.6	2127.9	2192.2	2248.7	2313.8	2367.5	2426.7	2493.6
15°	1851.2	1925.7	2006.3	2094.3	2178.6	2265.1	2342.6	2422.4	2496.9	2567.7	2651.9
17.5°	1823.8	1909.8	2004.8	2108.8	2210.1	2315.3	2407.3	2507.7	2583.9	2678.9	2757.1
20°	1801.6	1894.1	1995.7	2112.3	2227.5	2344.1	2445.7	2548.1	2633.8	2729.4	2828.8
22.5°	1774.4	1876.0	1986.1	2107.0	2227.5	2354.9	2467.4	2569.2	2675.4	2783.0	2885.4
25°	1730.8	1836.2	1952.9	2085.3	2223.7	2353.9	2474.4	2600.8	2715.2	2831.8	2923.6
27.5°	1677.3	1787.9	1910.8	2047.5	2189.6	2322.9	2464.7	2599.4	2714.5	2826.8	2906.9
30°	1634.5	1751.1	1869.3	2007.8	2155.2	2298.2	2450.2	2584.9	2706.1	2807.0	2852.1
32.5°	1590.5	1701.2	1823.0	1963.2	2114.3	2268.1	2418.9	2556.6	2668.8	2729.3	2730.5
35°	1514.1	1618.0	1744.4	1882.1	2037.1	2204.1	2356.9	2492.4	2560.9	2566.2	2492.4
37.5°	1430.7	1526.0	1645.3	1783.2	1952.9	2119.1	2275.2	2365.5	2388.4	2311.8	2175.4
40°	1371.1	1459.2	1574.3	1715.8	1884.3	2056.0	2198.2	2264.4	2240.3	2116.1	1964.1
42.5°	1308.5	1390.5	1501.5	1641.2	1810.3	1983.7	2104.9	2140.3	2076.5	1933.2	1755.2
45°	1206.4	1281.6	1391.5	1532.2	1694.7	1857.3	1949.1	1931.0	1824.9	1654.8	1455.4
47.5°	1099.9	1172.6	1271.5	1401.7	1568.1	1708.4	1770.6	1716.1	1565.1	1378.0	1215.8
50°	1029.4	1104.0	1195.0	1319.2	1471.2	1606.7	1646.5	1563.8	1395.9	1216.1	1067.1
52.5°	960.3	1023.9	1113.1	1233.1	1378.5	1492.9	1514.1	1418.7	1245.5	1084.2	952.1
55°	854.9	912.9	988.1	1101.0	1226.6	1323.7	1312.4	1189.8	1032.5	894.8	790.9
57.5°	753.0	796.6	866.2	971.9	1082.3	1147.5	1106.3	1001.6	855.1	742.3	654.7
60°	685.6	726.2	790.9	883.4	980.5	1017.4	982.8	869.2	753.3	650.2	576.5
62.5°	621.7	657.6	713.2	799.2	877.6	899.5	862.4	763.2	658.7	570.7	509.6
65°	529.0	562.1	609.5	670.5	724.7	735.2	711.1	609.5	530.6	456.8	414.6
67.5°	444.9	466.6	503.6	556.3	585.0	591.2	544.7	480.9	411.2	365.9	334.1
70°	388.3	403.3	438.0	466.6	489.9	490.7	447.8	396.6	343.2	306.3	283.0
72.5°	333.6	348.0	374.2	393.7	411.6	405.8	366.5	326.1	283.0	255.1	237.8
75°	257.4	270.1	283.7	292.8	292.8	285.2	256.7	226.5	201.7	185.1	179.8
77.5°	187.1	197.7	202.2	200.8	198.0	186.3	168.2	148.5	139.7	131.9	127.9
80°	146.8	151.3	152.8	149.0	144.5	130.9	118.9	110.7	102.4	99.3	97.8
82.5°	108.8	112.7	108.8	109.9	99.9	88.8	82.2	79.4	75.9	74.6	73.1
85°	58.0	57.2	55.7	51.9	45.1	43.6	42.9	42.1	40.6	41.4	39.9
87.5°	20.4	18.8	16.5	16.1	16.3	15.3	16.0	16.2	16.3	15.8	17.2
90°	2.4	3.4	4.4	5.5	6.3	7.2	7.9	8.7	9.4	10.0	10.6
92.5°	10.4	11.5	12.7	13.9	14.8	15.4	15.8	16.4	16.9	17.2	17.6
95°	26.5	27.3	28.2	29.0	29.8	30.4	31.1	31.8	32.4	32.7	33.0
97.5°	45.4	46.1	46.8	47.5	48.3	49.0	49.8	50.5	51.4	51.7	52.0
100°	60.1	60.5	60.9	61.4	61.9	62.8	63.6	64.5	65.3	65.5	65.7
102.5°	75.7	75.8	76.0	76.2	76.6	77.4	78.1	78.9	79.7	79.9	80.2
105°	99.6	99.7	99.8	99.9	100.1	100.5	100.9	101.2	101.6	101.9	102.3
107.5°	124.8	125.0	125.1	125.2	125.3	125.4	125.4	125.5	125.5	125.7	126.0
110°	141.9	142.1	142.3	142.5	142.6	142.5	142.4	142.3	142.2	142.0	141.9



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	159.6	159.7	159.7	159.8	159.7	159.5	159.3	159.1	159.0	158.9	158.9
115°	186.2	186.2	186.2	186.2	186.2	186.0	185.8	185.6	185.4	185.3	185.2
117.5°	211.4	211.5	211.6	211.6	211.6	211.5	211.3	211.2	211.0	210.8	210.5
120°	228.5	228.8	229.2	229.6	229.6	229.3	229.0	228.8	228.5	228.0	227.5
122.5°	245.6	245.8	245.9	246.1	246.1	246.0	245.8	245.7	245.6	245.2	245.0
125°	271.2	271.2	271.2	271.2	271.2	271.1	271.0	270.9	270.8	270.6	270.4
127.5°	294.8	295.1	295.4	295.7	295.8	295.6	295.4	295.3	295.1	294.9	294.7
130°	311.2	311.5	311.8	312.1	312.2	312.2	312.2	312.2	312.2	312.0	311.8
132.5°	327.9	328.1	328.3	328.5	328.6	328.5	328.4	328.4	328.3	328.1	327.9
135°	350.3	350.9	351.5	352.0	352.3	352.3	352.3	352.3	352.3	352.1	351.9
137.5°	374.2	374.4	374.7	374.9	375.1	375.3	375.5	375.6	375.8	375.5	375.2
140°	390.1	390.3	390.5	390.7	390.8	390.8	390.8	390.8	390.8	390.7	390.6
142.5°	404.8	405.0	405.2	405.4	405.5	405.4	405.3	405.2	405.1	405.1	405.1
145°	425.4	425.7	426.1	426.5	426.7	426.8	426.9	427.0	427.1	427.0	426.9
147.5°	445.5	446.0	446.5	447.0	447.1	447.0	447.0	447.0	446.9	446.8	446.7
150°	457.8	458.2	458.5	458.9	459.1	459.1	459.1	459.1	459.1	459.1	459.1
152.5°	469.3	469.5	469.8	470.0	470.1	470.1	470.2	470.3	470.4	470.6	470.9
155°	486.9	486.9	486.9	486.9	486.8	486.7	486.6	486.5	486.4	486.8	487.2
157.5°	501.7	501.6	501.4	501.2	501.1	501.1	501.1	501.1	501.1	501.3	501.6
160°	510.8	510.7	510.6	510.5	510.4	510.3	510.2	510.1	510.0	510.3	510.6
162.5°	518.8	518.5	518.3	518.0	517.8	517.7	517.6	517.6	517.5	518.0	518.5
165°	529.7	529.4	529.1	528.9	528.7	528.5	528.3	528.1	527.9	528.5	529.0
167.5°	538.1	537.7	537.3	536.9	536.7	536.7	536.8	536.8	536.8	537.3	537.9
170°	542.8	542.3	541.9	541.4	541.2	541.3	541.4	541.5	541.6	542.2	542.7
172.5°	546.3	545.9	545.5	545.1	544.9	544.9	545.0	545.0	545.0	545.6	546.3
175°	550.9	550.4	550.0	549.5	549.2	549.1	549.0	548.9	548.8	549.5	550.2
177.5°	552.5	552.1	551.8	551.4	551.2	551.2	551.2	551.2	551.2	551.8	552.3
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1959.3	1961.7	1963.5	1969.5	1970.1	1975.6	1970.1
5°	2121.4	2131.9	2148.5	2165.0	2166.5	2177.1	2158.2
7.5°	2303.2	2327.6	2342.8	2369.6	2380.1	2386.7	2375.9
10°	2428.5	2451.0	2490.9	2510.5	2530.1	2533.0	2524.0
12.5°	2549.5	2585.3	2616.7	2653.7	2652.9	2679.4	2669.7
15°	2710.7	2747.5	2791.2	2832.5	2847.6	2847.6	2859.7
17.5°	2825.6	2893.2	2938.4	2970.9	3006.3	3012.6	3008.3
20°	2903.3	2976.3	3024.4	3066.6	3090.7	3097.5	3097.5
22.5°	2961.1	3023.2	3070.2	3108.1	3128.0	3135.9	3133.6
25°	3001.1	3054.5	3083.2	3094.5	3099.6	3098.2	3083.9
27.5°	2946.3	2943.9	2925.8	2891.2	2865.2	2849.4	2831.3
30°	2841.6	2802.5	2757.3	2707.6	2643.6	2594.7	2579.6
32.5°	2685.7	2597.7	2521.3	2438.5	2369.7	2320.8	2300.4
35°	2384.1	2244.9	2131.2	2031.8	1959.6	1914.5	1899.4
37.5°	2026.1	1891.4	1750.7	1654.4	1594.5	1548.9	1531.8
40°	1798.6	1651.8	1529.2	1438.9	1377.1	1332.8	1332.0
42.5°	1590.8	1450.8	1335.3	1270.3	1203.7	1174.4	1174.2
45°	1302.6	1190.5	1092.7	1041.5	1001.6	977.5	970.7
47.5°	1078.6	985.8	920.7	879.9	847.3	832.0	822.1
50°	952.7	871.5	819.5	784.1	766.1	746.5	745.0
52.5°	847.9	782.3	741.9	713.1	690.2	678.4	678.8
55°	712.7	660.7	632.2	610.3	592.2	583.2	579.5
57.5°	600.4	561.4	540.6	520.6	512.9	505.9	503.9
60°	530.6	504.2	484.7	468.8	457.5	455.2	454.5
62.5°	472.8	445.2	431.7	419.4	411.2	407.7	406.3
65°	389.8	369.5	357.4	347.7	344.7	339.4	338.7
67.5°	314.2	302.1	294.1	287.3	283.2	283.0	283.0
70°	267.9	261.1	254.4	250.6	248.4	246.9	246.9
72.5°	228.2	223.2	217.6	215.7	215.2	213.7	213.1
75°	173.8	168.5	169.3	165.6	162.6	158.8	156.6
77.5°	123.3	119.5	118.8	118.3	115.7	115.3	116.5
80°	95.6	91.8	91.0	91.8	91.0	88.8	88.8
82.5°	72.7	69.6	68.8	68.3	67.6	68.3	67.1
85°	39.1	37.6	37.6	37.6	39.1	38.4	37.6
87.5°	16.0	15.6	16.2	15.7	15.7	15.2	15.8
90°	11.1	11.7	12.1	12.3	12.4	12.6	12.8
92.5°	17.9	18.3	18.5	18.7	18.8	18.9	18.9
95°	33.3	33.6	33.7	33.7	33.7	33.7	33.7
97.5°	52.4	52.7	52.9	52.9	52.9	52.9	52.9
100°	65.9	66.1	66.2	66.2	66.2	66.2	66.2
102.5°	80.5	80.8	81.0	81.0	81.1	81.2	81.2
105°	102.5	102.8	103.1	103.4	103.7	104.0	104.2
107.5°	126.3	126.6	126.7	126.7	126.7	126.6	126.6
110°	141.7	141.5	141.5	141.8	142.0	142.3	142.6



TEST NUMBER: P333096-830

CATALOG NUMBER: S124RDIW-S1195D470U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	158.8	158.8	158.8	158.9	158.9	159.0	159.0
115°	185.1	185.0	184.9	184.8	184.7	184.6	184.5
117.5°	210.1	209.8	209.5	209.3	209.2	209.0	208.8
120°	227.1	226.6	226.5	226.7	226.9	227.1	227.2
122.5°	244.6	244.3	243.9	243.6	243.3	242.9	242.6
125°	270.2	270.0	269.8	269.7	269.5	269.3	269.1
127.5°	294.5	294.4	294.2	294.1	293.9	293.8	293.6
130°	311.6	311.4	311.1	310.8	310.4	310.0	309.6
132.5°	327.7	327.5	327.3	327.2	327.1	326.9	326.8
135°	351.8	351.6	351.4	351.1	350.8	350.5	350.2
137.5°	375.0	374.8	374.7	374.8	374.8	374.8	374.9
140°	390.5	390.4	390.3	390.2	390.1	390.0	389.9
142.5°	405.1	405.1	405.0	405.0	405.0	405.0	405.0
145°	426.8	426.7	426.5	426.2	425.9	425.7	425.4
147.5°	446.6	446.6	446.5	446.4	446.3	446.2	446.1
150°	459.1	459.1	459.1	459.0	458.9	458.8	458.7
152.5°	471.1	471.4	471.3	471.1	470.8	470.6	470.3
155°	487.6	488.0	488.0	487.6	487.2	486.8	486.4
157.5°	501.9	502.2	502.2	501.9	501.5	501.2	500.9
160°	510.9	511.1	511.0	510.6	510.1	509.5	509.1
162.5°	519.1	519.5	519.5	519.1	518.6	518.1	517.6
165°	529.6	530.2	530.3	529.9	529.5	529.1	528.8
167.5°	538.5	539.0	539.0	538.5	537.9	537.2	536.7
170°	543.3	543.8	543.8	543.1	542.4	541.8	541.1
172.5°	547.0	547.5	547.5	546.9	546.2	545.5	544.9
175°	550.8	551.5	551.5	550.8	550.2	549.5	548.8
177.5°	552.8	553.4	553.3	552.7	552.1	551.5	550.9
180°	552.2	552.2	552.2	552.2	552.2	552.2	552.2

(END OF REPORT)