

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: P331846-935

Luminaire Tested: **S122RDIW-S1005D435U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331846-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S1005D435U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4576.1 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

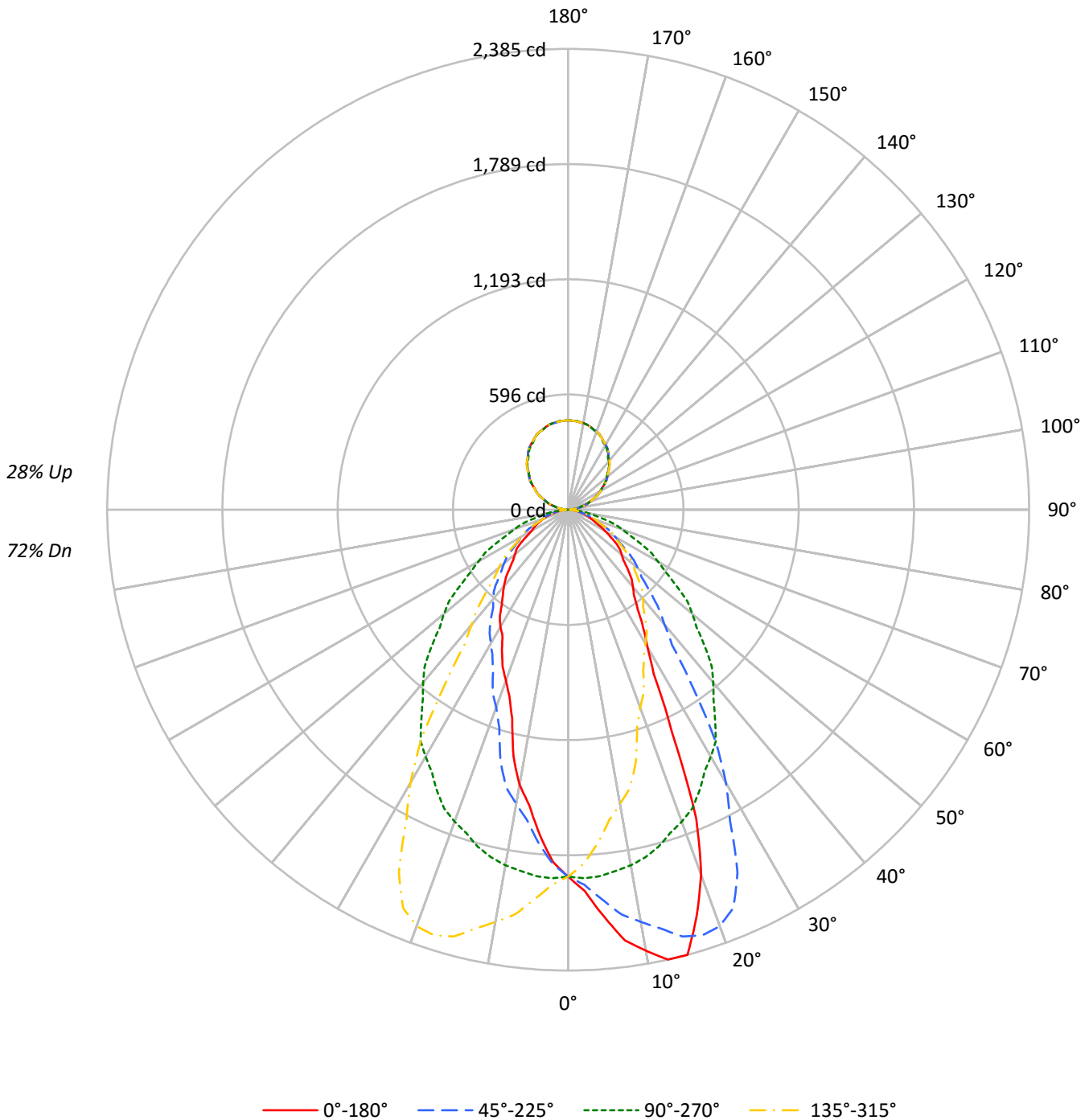
Input Watts (W): 52.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	72	
1	104	100	96	93	98	95	92	89	85	83	81	77	75	73	69	68	66	66	66	66	63	
2	95	88	83	78	90	84	79	75	76	72	69	69	66	63	62	60	58	58	58	58	54	
3	88	79	72	66	83	75	69	64	68	63	59	62	58	55	56	53	51	51	51	51	48	
4	81	71	63	58	77	68	61	56	62	56	52	56	52	48	51	48	45	45	45	45	42	
5	75	64	56	50	71	61	54	49	56	50	46	51	47	43	47	43	40	40	40	40	37	
6	70	58	50	45	66	56	49	43	51	45	41	47	42	38	43	39	36	36	36	36	34	
7	65	53	45	40	62	51	44	39	47	41	37	43	38	35	40	36	33	33	33	33	30	
8	61	49	41	36	58	47	40	35	43	37	33	40	35	31	37	33	30	30	30	30	28	
9	57	45	38	33	54	43	37	32	40	34	30	37	32	29	34	30	27	27	27	27	25	
10	54	42	35	30	51	40	34	29	37	32	28	35	30	26	32	28	25	25	25	25	23	

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

	0°	90°	180°	270°
0°	30658	30658	30658	30658
5°	34240	30851	27353	30851
10°	37990	30634	23710	30634
15°	39858	30186	18683	30186
20°	34553	29520	16167	29520
25°	22661	28609	14434	28609
30°	15252	27505	13064	27505
35°	12354	26112	11783	26112
40°	10985	24601	10903	24601
45°	9944	22825	9732	22825
50°	9048	21064	9018	21064
55°	8507	19111	8397	19111
60°	7114	17321	7030	17321
65°	5998	15729	6804	15729
70°	5542	14049	6420	14049
75°	5190	12227	5926	12227
80°	4788	10060	5272	10060
85°	4409	7947	4650	7947



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	3.9
10°-20°	501.6	11.0
20°-30°	646.3	14.1
30°-40°	614.2	13.4
40°-50°	526.2	11.5
50°-60°	400.7	8.8
60°-70°	253.3	5.5
70°-80°	126.5	2.8
80°-90°	34.8	0.8
90°-100°	29.3	0.6
100°-110°	91.0	2.0
110°-120°	155.5	3.4
120°-130°	204.5	4.5
130°-140°	229.5	5.0
140°-150°	225.0	4.9
150°-160°	188.8	4.1
160°-170°	125.2	2.7
170°-180°	43.8	1.0
0°-30°	1327.9	29.0
0°-40°	1942.1	42.4
0°-60°	2869.0	62.7
0°-90°	3283.5	71.8
90°-120°	275.7	6.0
90°-150°	934.8	20.4
90°-180°	1293.0	28.3
0°-180°	4576.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1899	1899	1899	1899	1899	
5°	2113	1904	1688	1904	2113	209
15°	2384	1806	1118	1806	2384	643
25°	1272	1606	810	1606	1272	604
35°	627	1325	598	1325	627	401
45°	436	1000	426	1000	436	337
55°	302	679	298	679	302	265
65°	157	412	178	412	157	160
75°	83	196	95	196	83	88
85°	24	43	25	43	24	26
90°	13	0	13	0	13	7
95°	24	20	24	20	24	27
105°	87	84	87	84	87	91
115°	156	156	156	156	156	154
125°	228	227	228	227	228	203
135°	297	294	297	294	297	229
145°	360	356	360	356	360	225
155°	411	408	411	408	411	189
165°	444	444	444	444	444	125
175°	460	462	460	462	460	44
180°	462	462	462	462	462	



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1975.9	1977.5	1979.1	1975.4	1975.4	1972.2	1965.4	1960.1	1945.3	1943.2	1943.2
5°	2112.6	2111.3	2113.9	2105.4	2093.5	2090.9	2078.4	2061.8	2044.7	2025.6	2021.6
7.5°	2248.6	2246.6	2241.3	2239.9	2230.8	2210.8	2190.6	2169.1	2140.6	2112.8	2098.8
10°	2317.2	2339.0	2325.7	2302.7	2307.3	2276.3	2259.8	2231.5	2207.7	2166.1	2156.9
12.5°	2384.7	2393.3	2389.1	2376.0	2370.1	2348.5	2326.2	2301.6	2257.8	2220.4	2188.0
15°	2384.5	2397.0	2400.3	2396.3	2399.7	2398.3	2386.4	2366.0	2327.7	2286.8	2251.2
17.5°	2208.5	2217.2	2238.8	2253.4	2271.9	2311.0	2330.2	2337.8	2332.1	2308.8	2283.6
20°	2011.0	1996.5	2057.2	2088.3	2114.6	2180.6	2237.3	2259.1	2294.0	2293.4	2286.8
22.5°	1731.3	1734.7	1792.3	1829.1	1906.2	1972.1	2036.8	2118.7	2186.4	2231.1	2257.3
25°	1272.0	1297.2	1354.5	1404.7	1490.5	1613.2	1724.7	1854.0	1976.1	2072.4	2164.1
27.5°	955.4	957.3	1002.7	1049.0	1100.0	1200.6	1340.9	1495.4	1669.4	1813.0	1978.1
30°	818.1	814.2	833.3	861.7	905.3	983.1	1088.6	1240.4	1413.9	1630.3	1823.0
32.5°	721.0	721.3	735.6	756.6	792.8	845.3	917.7	1040.9	1204.9	1417.6	1643.6
35°	626.8	626.1	636.7	651.9	667.0	700.7	750.2	814.9	927.6	1126.3	1357.2
37.5°	559.2	562.1	567.3	576.8	593.6	612.3	642.0	685.4	765.8	883.2	1077.3
40°	521.2	522.5	529.8	537.7	547.6	562.1	586.5	621.6	680.3	774.0	915.8
42.5°	486.4	487.8	492.8	500.2	508.1	522.5	542.8	573.0	620.6	693.7	810.7
45°	435.5	435.5	440.1	443.4	451.9	465.1	481.6	506.7	539.7	593.8	671.7
47.5°	387.7	387.8	390.9	396.6	401.9	412.2	428.4	448.9	472.9	514.8	581.3
50°	360.2	360.9	362.9	367.5	370.8	380.0	392.6	410.4	435.5	467.8	523.2
52.5°	338.1	337.7	340.2	342.2	344.4	351.0	360.4	376.1	398.5	426.6	472.5
55°	302.2	299.5	303.5	306.8	308.8	311.4	316.7	326.6	345.7	369.5	403.8
57.5°	257.4	256.2	259.1	262.1	268.3	275.4	279.9	286.2	296.1	313.1	347.2
60°	220.3	220.3	226.3	228.3	235.6	244.8	254.0	259.3	269.2	280.4	305.5
62.5°	187.6	188.2	191.0	193.0	197.0	208.4	221.3	232.9	242.3	253.0	269.6
65°	157.0	158.3	158.3	159.6	162.3	165.0	170.2	179.4	196.0	211.1	223.7
67.5°	133.3	133.7	134.1	135.3	136.0	139.0	141.0	145.2	149.0	163.3	178.9
70°	117.4	119.4	118.7	120.1	120.7	122.1	124.7	126.7	132.6	136.0	145.2
72.5°	102.6	104.1	104.0	104.8	106.5	106.8	108.8	110.8	114.7	117.4	122.4
75°	83.2	82.5	83.2	84.5	85.2	85.8	85.8	88.4	90.4	93.0	96.3
77.5°	64.1	64.8	64.7	64.8	64.9	66.1	66.0	67.2	69.1	70.4	72.1
80°	51.5	52.1	51.5	52.1	52.8	53.5	52.8	53.5	55.4	56.7	56.7
82.5°	39.9	40.0	40.4	40.6	40.6	40.8	41.7	41.8	43.3	43.0	43.6
85°	23.8	23.1	23.1	23.1	23.8	24.5	23.8	23.8	24.5	24.5	24.5
87.5°	11.1	11.6	11.6	11.5	11.5	11.5	11.6	12.1	11.7	12.2	11.4
90°	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3	13.5	13.7	11.7
92.5°	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.4	12.4	12.0
95°	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0	25.0	25.0	24.8
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7
100°	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.6
102.5°	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7	66.7	66.6	66.3
105°	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2	86.0	85.8	85.7
107.5°	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1	107.0	106.9	106.9
110°	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3	121.3	121.3	121.3



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6	135.8	136.0	136.0
115°	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4	157.5	157.6	157.7
117.5°	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6	178.7	179.0	179.4
120°	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7	192.7	192.7	193.4
122.5°	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2	207.5	207.7	208.2
125°	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9	229.1	229.4	229.6
127.5°	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8	250.1	250.5	250.7
130°	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2	264.3	264.5	264.7
132.5°	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1	278.4	278.8	278.8
135°	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6	298.7	298.8	298.6
137.5°	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3	318.4	318.5	318.2
140°	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6	331.6	331.6	331.1
142.5°	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5	343.5	343.5	343.1
145°	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8	361.7	361.6	361.1
147.5°	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7	377.5	377.4	377.0
150°	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9	387.6	387.4	387.0
152.5°	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0	397.7	397.4	396.9
155°	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9	410.4	410.0	409.7
157.5°	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7	422.1	421.5	421.4
160°	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7	429.2	428.7	428.6
162.5°	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1	435.5	435.0	434.9
165°	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4	443.8	443.2	443.2
167.5°	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2	450.6	450.0	450.0
170°	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9	454.3	453.7	453.7
172.5°	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7	457.1	456.5	456.6
175°	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7	460.1	459.5	459.7
177.5°	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2	461.8	461.3	461.4
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1944.3	1940.0	1936.4	1926.8	1922.1	1911.5	1910.0	1909.4	1895.7	1882.5	1878.8
5°	2011.0	2000.4	1984.7	1966.2	1947.1	1927.3	1914.1	1903.5	1877.1	1852.0	1837.5
7.5°	2078.4	2055.6	2028.3	1993.4	1964.2	1931.5	1907.2	1885.4	1848.0	1812.1	1787.9
10°	2128.5	2091.5	2055.2	2007.1	1969.5	1932.5	1898.2	1868.5	1826.3	1778.8	1745.2
12.5°	2159.6	2119.0	2069.0	2021.9	1973.2	1926.2	1880.3	1842.1	1792.5	1743.4	1703.5
15°	2201.7	2158.2	2097.5	2030.2	1967.5	1906.2	1853.4	1805.9	1741.2	1682.5	1633.7
17.5°	2236.2	2176.3	2111.1	2033.3	1960.7	1882.7	1814.7	1754.0	1682.0	1611.2	1553.7
20°	2247.2	2187.9	2112.6	2034.8	1949.0	1857.3	1784.1	1718.1	1640.9	1563.7	1497.7
22.5°	2240.4	2194.2	2110.6	2017.4	1929.5	1833.6	1750.8	1674.3	1588.6	1509.8	1433.3
25°	2193.8	2178.0	2098.8	1997.2	1896.9	1785.4	1689.7	1605.9	1508.3	1423.8	1340.7
27.5°	2085.2	2119.4	2070.3	1962.0	1850.5	1731.0	1623.5	1528.1	1426.8	1331.7	1248.9
30°	1980.7	2059.2	2038.1	1937.8	1813.1	1695.7	1574.9	1475.3	1367.1	1269.5	1187.7
32.5°	1837.6	1967.4	1988.0	1904.0	1775.1	1646.1	1519.5	1420.4	1307.4	1204.5	1124.8
35°	1609.9	1803.9	1892.9	1839.5	1710.2	1571.0	1440.3	1324.8	1211.3	1109.7	1030.6
37.5°	1338.2	1602.4	1750.8	1754.6	1635.9	1491.2	1348.8	1234.2	1118.1	1018.3	932.7
40°	1161.9	1448.2	1641.6	1684.5	1584.2	1427.8	1283.9	1167.2	1053.7	956.1	857.7
42.5°	1003.6	1288.8	1526.5	1601.0	1521.4	1366.1	1221.7	1099.6	989.3	896.9	796.5
45°	811.6	1060.9	1322.8	1456.1	1412.0	1268.1	1115.7	999.6	896.0	816.1	719.8
47.5°	684.6	860.4	1113.9	1294.1	1293.3	1162.0	1012.1	900.9	804.8	730.0	652.0
50°	612.3	765.3	979.8	1184.3	1201.4	1091.3	948.7	838.6	748.9	670.4	607.7
52.5°	547.3	673.5	866.3	1062.4	1111.2	1015.8	877.5	775.8	688.7	616.5	562.8
55°	462.5	560.2	706.6	890.0	964.0	896.6	774.0	678.9	608.3	547.6	501.4
57.5°	391.2	464.5	582.0	729.7	815.8	773.4	672.2	595.0	534.6	479.7	443.2
60°	346.4	406.4	506.1	629.5	724.4	694.7	608.3	536.4	484.9	437.5	403.1
62.5°	304.2	355.8	441.2	541.3	628.4	616.1	545.5	485.2	440.1	396.8	367.7
65°	244.8	282.4	349.0	427.6	497.5	503.4	452.6	411.7	371.4	337.2	311.4
67.5°	194.9	219.5	266.4	332.5	385.0	403.6	372.6	341.4	309.4	282.9	260.6
70°	164.3	184.1	218.3	271.8	320.0	339.8	322.0	297.6	269.8	248.1	228.9
72.5°	133.1	152.4	177.7	217.0	258.2	279.7	273.5	255.9	233.4	215.3	197.3
75°	100.3	106.2	123.4	149.8	182.1	200.6	205.2	196.0	178.1	164.3	153.7
77.5°	74.1	77.7	85.9	99.8	120.9	137.3	144.1	143.0	130.8	122.7	112.8
80°	59.4	61.4	65.3	71.3	87.1	103.6	108.2	108.2	99.6	96.3	86.4
82.5°	45.1	46.6	49.0	52.3	59.7	74.0	79.2	80.2	74.8	70.4	62.7
85°	25.7	25.1	26.4	28.4	29.7	33.7	41.6	42.9	41.6	36.2	34.3
87.5°	10.9	11.1	10.7	9.9	10.2	10.5	12.9	15.4	13.5	12.1	11.3
90°	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4	1.5	2.5	3.5
92.5°	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0	7.7	8.4	9.2
95°	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3	21.2	22.0	22.9
97.5°	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0	37.8	38.6	39.3
100°	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5	50.2	50.9	51.7
102.5°	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7	63.2	63.7	64.3
105°	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9	84.1	84.4	84.6
107.5°	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2	105.6	106.0	106.4
110°	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0	119.5	120.0	120.5





TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0	134.5	135.0	135.5
115°	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0	156.5	157.0	157.6
117.5°	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1	178.7	179.4	180.1
120°	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	193.4	194.1	194.8
122.5°	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1	207.0	207.8	208.6
125°	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0	227.8	228.6	229.4
127.5°	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4	248.4	249.3	250.4
130°	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2	261.3	262.4	263.6
132.5°	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6	275.4	276.4	277.3
135°	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8	294.7	295.7	296.6
137.5°	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9	314.7	315.5	316.2
140°	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1	326.9	327.7	328.5
142.5°	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6	339.4	340.2	341.0
145°	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5	357.1	357.7	358.3
147.5°	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6	373.2	374.0	374.7
150°	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5	384.0	384.5	385.0
152.5°	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1	393.6	394.2	394.7
155°	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6	407.9	408.1	408.5
157.5°	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1	420.3	420.4	420.6
160°	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6	427.7	427.9	428.1
162.5°	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4	434.5	434.5	434.5
165°	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5	443.4	443.3	443.2
167.5°	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2	450.9	450.6	450.4
170°	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2	455.0	454.7	454.4
172.5°	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1	457.8	457.5	457.3
175°	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5	461.2	461.0	460.7
177.5°	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9	462.7	462.4	462.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1872.0	1868.3	1861.4	1850.8	1844.5	1833.4	1826.0	1830.2	1831.3	1830.2	1829.2
5°	1821.7	1807.8	1788.7	1770.2	1753.1	1734.6	1724.1	1719.4	1710.2	1704.9	1702.3
7.5°	1760.8	1737.0	1709.9	1677.7	1650.4	1621.8	1607.1	1599.8	1581.0	1570.7	1561.7
10°	1715.5	1677.8	1650.8	1608.6	1582.9	1545.2	1519.5	1520.2	1494.4	1479.9	1469.4
12.5°	1665.3	1624.0	1579.0	1541.0	1505.3	1475.1	1444.0	1431.5	1404.2	1390.2	1361.7
15°	1582.2	1534.0	1486.5	1435.0	1398.8	1351.9	1307.1	1252.3	1208.1	1169.8	1159.3
17.5°	1491.4	1431.8	1384.1	1323.7	1261.5	1182.8	1130.8	1099.0	1072.3	1052.1	1037.1
20°	1429.1	1368.4	1317.6	1226.6	1142.7	1089.3	1051.0	1026.7	998.9	977.1	965.3
22.5°	1363.7	1300.3	1231.1	1129.5	1064.1	1021.2	987.1	959.1	940.3	923.3	912.5
25°	1270.7	1201.4	1087.4	1017.4	964.6	919.7	896.0	878.8	859.0	835.9	825.4
27.5°	1172.6	1062.4	980.4	928.4	878.0	848.9	827.5	801.9	784.2	773.8	762.8
30°	1099.2	989.0	925.1	868.3	832.7	800.3	775.2	760.8	743.6	725.7	718.5
32.5°	1017.4	929.4	868.1	820.8	784.6	757.1	737.3	713.8	701.4	690.4	675.2
35°	915.8	849.1	793.1	754.8	720.5	698.1	674.9	661.1	638.7	629.5	623.5
37.5°	829.7	772.0	730.1	689.7	662.5	637.7	623.6	601.6	591.9	579.0	566.5
40°	781.2	724.4	684.2	651.2	620.9	602.4	584.5	566.8	552.2	546.3	531.2
42.5°	731.6	685.4	645.1	609.0	588.7	569.1	546.6	533.5	518.5	508.9	499.5
45°	663.1	622.2	587.9	558.2	535.7	515.3	500.8	479.0	470.5	451.3	443.4
47.5°	603.0	564.9	532.2	503.9	482.1	468.7	447.5	430.4	416.7	405.0	394.9
50°	560.2	528.5	496.8	471.7	451.9	432.8	411.0	402.4	381.3	375.4	369.5
52.5°	521.1	491.0	462.0	437.5	417.7	399.1	379.9	368.7	354.5	348.5	344.1
55°	466.5	437.5	409.7	388.0	368.2	349.0	337.2	323.3	316.7	312.1	306.8
57.5°	411.6	385.5	364.2	342.2	322.3	307.0	293.3	285.0	278.2	272.1	265.8
60°	376.8	351.6	332.5	312.1	291.6	279.1	268.5	258.6	250.7	241.5	238.8
62.5°	339.8	317.9	300.3	280.4	262.6	251.2	241.1	231.7	222.2	208.8	205.1
65°	289.0	271.8	253.4	236.9	221.0	209.8	195.3	184.8	180.8	179.4	178.8
67.5°	243.1	226.9	211.0	194.1	179.7	169.3	162.0	160.3	157.6	156.8	154.9
70°	212.5	197.3	181.4	165.6	151.8	149.8	147.1	144.5	141.2	139.9	138.5
72.5°	185.0	169.3	153.4	140.8	134.8	132.3	129.8	127.1	124.8	123.6	122.7
75°	141.9	127.3	116.8	112.2	108.8	106.9	102.9	100.9	99.6	97.6	96.9
77.5°	102.1	93.9	89.1	86.2	82.7	80.6	78.4	76.4	75.0	74.6	73.5
80°	77.8	73.9	70.6	66.6	65.3	62.7	62.0	60.0	60.7	58.7	58.7
82.5°	60.4	55.4	52.7	50.8	49.5	47.4	46.8	45.8	45.9	44.4	44.4
85°	31.0	29.7	28.4	27.0	27.0	25.1	25.7	25.1	25.1	23.8	23.1
87.5°	10.9	10.7	10.1	10.4	10.8	10.7	10.6	10.1	10.0	10.0	9.5
90°	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3	13.2	13.0	12.9
92.5°	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5	12.5	12.6	12.6
95°	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0	25.0	25.0	24.9
97.5°	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9	41.9	41.9	41.9
100°	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8	53.8	53.8	53.8
102.5°	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7	66.8	66.9	66.9
105°	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2	86.4	86.5	86.6
107.5°	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1	107.2	107.3	107.1
110°	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.1



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6	135.3	135.2	134.9
115°	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4	157.3	157.2	157.0
117.5°	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6	178.3	178.1	177.9
120°	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7	192.7	192.7	192.6
122.5°	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2	207.1	206.8	206.6
125°	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9	228.6	228.3	228.2
127.5°	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8	249.5	249.2	248.9
130°	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2	264.0	263.8	263.6
132.5°	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1	277.7	277.3	277.0
135°	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6	298.5	298.4	298.3
137.5°	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3	318.2	318.2	318.0
140°	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6	331.6	331.6	331.4
142.5°	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5	343.6	343.7	343.5
145°	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8	361.9	362.0	361.8
147.5°	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7	378.0	378.2	378.1
150°	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9	388.1	388.4	388.4
152.5°	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0	398.3	398.6	398.6
155°	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9	411.3	411.7	411.8
157.5°	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7	423.3	423.9	424.0
160°	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7	430.2	430.8	430.8
162.5°	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1	436.7	437.3	437.4
165°	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4	445.0	445.6	445.7
167.5°	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2	451.8	452.4	452.5
170°	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9	455.5	456.1	456.2
172.5°	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7	458.3	458.9	458.9
175°	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7	461.3	461.9	462.0
177.5°	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2	462.5	463.0	463.0
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1823.4	1824.5	1822.9	1823.9	1822.9	1824.5	1823.4	1829.2	1830.2	1831.3	1830.2
5°	1698.9	1691.0	1689.7	1687.7	1689.7	1691.0	1698.9	1702.3	1704.9	1710.2	1719.4
7.5°	1550.4	1549.2	1545.9	1541.3	1545.9	1549.2	1550.4	1561.7	1570.7	1581.0	1599.8
10°	1454.8	1451.6	1450.9	1446.2	1450.9	1451.6	1454.8	1469.4	1479.9	1494.4	1520.2
12.5°	1342.9	1321.7	1319.5	1307.9	1319.5	1321.7	1342.9	1361.7	1390.2	1404.2	1431.5
15°	1143.4	1139.4	1126.3	1117.7	1126.3	1139.4	1143.4	1159.3	1169.8	1208.1	1252.3
17.5°	1029.4	1016.5	1012.4	1010.6	1012.4	1016.5	1029.4	1037.1	1052.1	1072.3	1099.0
20°	956.1	944.2	942.2	940.9	942.2	944.2	956.1	965.3	977.1	998.9	1026.7
22.5°	905.3	892.9	887.8	883.8	887.8	892.9	905.3	912.5	923.3	940.3	959.1
25°	818.8	814.2	811.6	810.2	811.6	814.2	818.8	825.4	835.9	859.0	878.8
27.5°	751.1	741.0	739.0	735.6	739.0	741.0	751.1	762.8	773.8	784.2	801.9
30°	712.6	709.3	704.6	700.7	704.6	709.3	712.6	718.5	725.7	743.6	760.8
32.5°	667.2	664.4	660.3	658.5	660.3	664.4	667.2	675.2	690.4	701.4	713.8
35°	616.9	607.7	603.7	597.8	603.7	607.7	616.9	623.5	629.5	638.7	661.1
37.5°	563.7	558.9	553.3	555.3	553.3	558.9	563.7	566.5	579.0	591.9	601.6
40°	522.5	519.3	518.0	517.3	518.0	519.3	522.5	531.2	546.3	552.2	566.8
42.5°	489.8	480.7	477.3	477.2	477.3	480.7	489.8	499.5	508.9	518.5	533.5
45°	440.1	431.5	425.6	426.2	425.6	431.5	440.1	443.4	451.3	470.5	479.0
47.5°	389.2	388.9	385.2	386.3	385.2	388.9	389.2	394.9	405.0	416.7	430.4
50°	364.9	360.9	358.3	359.0	358.3	360.9	364.9	369.5	375.4	381.3	402.4
52.5°	341.6	338.2	336.1	338.9	336.1	338.2	341.6	344.1	348.5	354.5	368.7
55°	303.5	299.5	298.9	298.3	298.9	299.5	303.5	306.8	312.1	316.7	323.3
57.5°	260.9	258.2	254.3	252.5	254.3	258.2	260.9	265.8	272.1	278.2	285.0
60°	230.2	225.0	218.3	217.7	218.3	225.0	230.2	238.8	241.5	250.7	258.6
62.5°	202.2	201.2	199.9	199.8	199.9	201.2	202.2	205.1	208.8	222.2	231.7
65°	177.5	176.8	177.5	178.1	177.5	176.8	177.5	178.8	179.4	180.8	184.8
67.5°	154.6	153.4	152.3	152.8	152.3	153.4	154.6	154.9	156.8	157.6	160.3
70°	137.2	136.6	136.0	136.0	136.0	136.6	137.2	138.5	139.9	141.2	144.5
72.5°	120.4	120.2	119.6	119.0	119.6	120.2	120.4	122.7	123.6	124.8	127.1
75°	96.3	95.0	95.0	95.0	95.0	95.0	96.3	96.9	97.6	99.6	100.9
77.5°	73.4	72.7	72.1	71.5	72.1	72.7	73.4	73.5	74.6	75.0	76.4
80°	58.0	57.4	56.7	56.7	56.7	57.4	58.0	58.7	58.7	60.7	60.0
82.5°	44.3	43.7	43.6	43.0	43.6	43.7	44.3	44.4	44.4	45.9	45.8
85°	23.8	24.5	23.8	25.1	23.8	24.5	23.8	23.1	23.8	25.1	25.1
87.5°	9.5	9.0	9.5	9.0	9.5	9.0	9.5	9.5	10.0	10.0	10.1
90°	13.0	13.1	13.2	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3
92.5°	12.6	12.6	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5
95°	24.7	24.5	24.4	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.7	53.6	53.6	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8
102.5°	66.8	66.7	66.6	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7
105°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2
107.5°	106.7	106.2	105.9	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1
110°	120.9	120.6	120.4	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	134.7	134.6	134.4	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6
115°	156.8	156.5	156.3	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4
117.5°	177.6	177.4	177.1	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6
120°	192.3	192.1	191.8	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7
122.5°	206.5	206.3	206.0	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2
125°	228.1	228.0	227.9	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9
127.5°	248.6	248.3	248.1	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8
130°	263.2	262.9	262.5	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2
132.5°	276.7	276.4	276.1	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1
135°	298.0	297.7	297.5	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6
137.5°	317.6	317.3	316.9	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3
140°	331.1	330.7	330.4	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6
142.5°	343.2	342.9	342.5	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5
145°	361.4	361.1	360.8	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8
147.5°	377.7	377.4	377.0	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7
150°	388.1	387.9	387.6	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9
152.5°	398.3	398.0	397.7	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0
155°	411.6	411.3	411.0	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9
157.5°	423.5	423.1	422.8	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7
160°	430.5	430.2	429.8	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7
162.5°	437.0	436.5	436.1	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1
165°	445.2	444.8	444.4	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4
167.5°	451.9	451.5	451.1	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2
170°	455.6	455.1	454.6	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9
172.5°	458.4	457.9	457.4	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7
175°	461.5	461.0	460.5	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7
177.5°	462.5	462.2	461.8	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1826.0	1833.4	1844.5	1850.8	1861.4	1868.3	1872.0	1878.8	1882.5	1895.7	1909.4
5°	1724.1	1734.6	1753.1	1770.2	1788.7	1807.8	1821.7	1837.5	1852.0	1877.1	1903.5
7.5°	1607.1	1621.8	1650.4	1677.7	1709.9	1737.0	1760.8	1787.9	1812.1	1848.0	1885.4
10°	1519.5	1545.2	1582.9	1608.6	1650.8	1677.8	1715.5	1745.2	1778.8	1826.3	1868.5
12.5°	1444.0	1475.1	1505.3	1541.0	1579.0	1624.0	1665.3	1703.5	1743.4	1792.5	1842.1
15°	1307.1	1351.9	1398.8	1435.0	1486.5	1534.0	1582.2	1633.7	1682.5	1741.2	1805.9
17.5°	1130.8	1182.8	1261.5	1323.7	1384.1	1431.8	1491.4	1553.7	1611.2	1682.0	1754.0
20°	1051.0	1089.3	1142.7	1226.6	1317.6	1368.4	1429.1	1497.7	1563.7	1640.9	1718.1
22.5°	987.1	1021.2	1064.1	1129.5	1231.1	1300.3	1363.7	1433.3	1509.8	1588.6	1674.3
25°	896.0	919.7	964.6	1017.4	1087.4	1201.4	1270.7	1340.7	1423.8	1508.3	1605.9
27.5°	827.5	848.9	878.0	928.4	980.4	1062.4	1172.6	1248.9	1331.7	1426.8	1528.1
30°	775.2	800.3	832.7	868.3	925.1	989.0	1099.2	1187.7	1269.5	1367.1	1475.3
32.5°	737.3	757.1	784.6	820.8	868.1	929.4	1017.4	1124.8	1204.5	1307.4	1420.4
35°	674.9	698.1	720.5	754.8	793.1	849.1	915.8	1030.6	1109.7	1211.3	1324.8
37.5°	623.6	637.7	662.5	689.7	730.1	772.0	829.7	932.7	1018.3	1118.1	1234.2
40°	584.5	602.4	620.9	651.2	684.2	724.4	781.2	857.7	956.1	1053.7	1167.2
42.5°	546.6	569.1	588.7	609.0	645.1	685.4	731.6	796.5	896.9	989.3	1099.6
45°	500.8	515.3	535.7	558.2	587.9	622.2	663.1	719.8	816.1	896.0	999.6
47.5°	447.5	468.7	482.1	503.9	532.2	564.9	603.0	652.0	730.0	804.8	900.9
50°	411.0	432.8	451.9	471.7	496.8	528.5	560.2	607.7	670.4	748.9	838.6
52.5°	379.9	399.1	417.7	437.5	462.0	491.0	521.1	562.8	616.5	688.7	775.8
55°	337.2	349.0	368.2	388.0	409.7	437.5	466.5	501.4	547.6	608.3	678.9
57.5°	293.3	307.0	322.3	342.2	364.2	385.5	411.6	443.2	479.7	534.6	595.0
60°	268.5	279.1	291.6	312.1	332.5	351.6	376.8	403.1	437.5	484.9	536.4
62.5°	241.1	251.2	262.6	280.4	300.3	317.9	339.8	367.7	396.8	440.1	485.2
65°	195.3	209.8	221.0	236.9	253.4	271.8	289.0	311.4	337.2	371.4	411.7
67.5°	162.0	169.3	179.7	194.1	211.0	226.9	243.1	260.6	282.9	309.4	341.4
70°	147.1	149.8	151.8	165.6	181.4	197.3	212.5	228.9	248.1	269.8	297.6
72.5°	129.8	132.3	134.8	140.8	153.4	169.3	185.0	197.3	215.3	233.4	255.9
75°	102.9	106.9	108.8	112.2	116.8	127.3	141.9	153.7	164.3	178.1	196.0
77.5°	78.4	80.6	82.7	86.2	89.1	93.9	102.1	112.8	122.7	130.8	143.0
80°	62.0	62.7	65.3	66.6	70.6	73.9	77.8	86.4	96.3	99.6	108.2
82.5°	46.8	47.4	49.5	50.8	52.7	55.4	60.4	62.7	70.4	74.8	80.2
85°	25.7	25.1	27.0	27.0	28.4	29.7	31.0	34.3	36.2	41.6	42.9
87.5°	10.6	10.7	10.8	10.4	10.1	10.7	10.9	11.3	12.1	13.5	15.4
90°	13.5	13.7	11.7	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4
92.5°	12.4	12.4	12.0	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0
95°	25.0	25.0	24.8	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3
97.5°	41.9	41.9	41.7	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0
100°	53.8	53.8	53.6	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5
102.5°	66.7	66.6	66.3	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7
105°	86.0	85.8	85.7	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9
107.5°	107.0	106.9	106.9	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2
110°	121.3	121.3	121.3	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	135.8	136.0	136.0	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0
115°	157.5	157.6	157.7	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0
117.5°	178.7	179.0	179.4	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1
120°	192.7	192.7	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7
122.5°	207.5	207.7	208.2	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1
125°	229.1	229.4	229.6	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0
127.5°	250.1	250.5	250.7	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4
130°	264.3	264.5	264.7	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2
132.5°	278.4	278.8	278.8	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6
135°	298.7	298.8	298.6	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8
137.5°	318.4	318.5	318.2	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9
140°	331.6	331.6	331.1	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1
142.5°	343.5	343.5	343.1	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6
145°	361.7	361.6	361.1	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5
147.5°	377.5	377.4	377.0	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6
150°	387.6	387.4	387.0	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5
152.5°	397.7	397.4	396.9	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1
155°	410.4	410.0	409.7	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6
157.5°	422.1	421.5	421.4	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1
160°	429.2	428.7	428.6	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6
162.5°	435.5	435.0	434.9	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4
165°	443.8	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5
167.5°	450.6	450.0	450.0	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2
170°	454.3	453.7	453.7	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2
172.5°	457.1	456.5	456.6	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1
175°	460.1	459.5	459.7	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5
177.5°	461.8	461.3	461.4	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1910.0	1911.5	1922.1	1926.8	1936.4	1940.0	1944.3	1943.2	1943.2	1945.3	1960.1
5°	1914.1	1927.3	1947.1	1966.2	1984.7	2000.4	2011.0	2021.6	2025.6	2044.7	2061.8
7.5°	1907.2	1931.5	1964.2	1993.4	2028.3	2055.6	2078.4	2098.8	2112.8	2140.6	2169.1
10°	1898.2	1932.5	1969.5	2007.1	2055.2	2091.5	2128.5	2156.9	2166.1	2207.7	2231.5
12.5°	1880.3	1926.2	1973.2	2021.9	2069.0	2119.0	2159.6	2188.0	2220.4	2257.8	2301.6
15°	1853.4	1906.2	1967.5	2030.2	2097.5	2158.2	2201.7	2251.2	2286.8	2327.7	2366.0
17.5°	1814.7	1882.7	1960.7	2033.3	2111.1	2176.3	2236.2	2283.6	2308.8	2332.1	2337.8
20°	1784.1	1857.3	1949.0	2034.8	2112.6	2187.9	2247.2	2286.8	2293.4	2294.0	2259.1
22.5°	1750.8	1833.6	1929.5	2017.4	2110.6	2194.2	2240.4	2257.3	2231.1	2186.4	2118.7
25°	1689.7	1785.4	1896.9	1997.2	2098.8	2178.0	2193.8	2164.1	2072.4	1976.1	1854.0
27.5°	1623.5	1731.0	1850.5	1962.0	2070.3	2119.4	2085.2	1978.1	1813.0	1669.4	1495.4
30°	1574.9	1695.7	1813.1	1937.8	2038.1	2059.2	1980.7	1823.0	1630.3	1413.9	1240.4
32.5°	1519.5	1646.1	1775.1	1904.0	1988.0	1967.4	1837.6	1643.6	1417.6	1204.9	1040.9
35°	1440.3	1571.0	1710.2	1839.5	1892.9	1803.9	1609.9	1357.2	1126.3	927.6	814.9
37.5°	1348.8	1491.2	1635.9	1754.6	1750.8	1602.4	1338.2	1077.3	883.2	765.8	685.4
40°	1283.9	1427.8	1584.2	1684.5	1641.6	1448.2	1161.9	915.8	774.0	680.3	621.6
42.5°	1221.7	1366.1	1521.4	1601.0	1526.5	1288.8	1003.6	810.7	693.7	620.6	573.0
45°	1115.7	1268.1	1412.0	1456.1	1322.8	1060.9	811.6	671.7	593.8	539.7	506.7
47.5°	1012.1	1162.0	1293.3	1294.1	1113.9	860.4	684.6	581.3	514.8	472.9	448.9
50°	948.7	1091.3	1201.4	1184.3	979.8	765.3	612.3	523.2	467.8	435.5	410.4
52.5°	877.5	1015.8	1111.2	1062.4	866.3	673.5	547.3	472.5	426.6	398.5	376.1
55°	774.0	896.6	964.0	890.0	706.6	560.2	462.5	403.8	369.5	345.7	326.6
57.5°	672.2	773.4	815.8	729.7	582.0	464.5	391.2	347.2	313.1	296.1	286.2
60°	608.3	694.7	724.4	629.5	506.1	406.4	346.4	305.5	280.4	269.2	259.3
62.5°	545.5	616.1	628.4	541.3	441.2	355.8	304.2	269.6	253.0	242.3	232.9
65°	452.6	503.4	497.5	427.6	349.0	282.4	244.8	223.7	211.1	196.0	179.4
67.5°	372.6	403.6	385.0	332.5	266.4	219.5	194.9	178.9	163.3	149.0	145.2
70°	322.0	339.8	320.0	271.8	218.3	184.1	164.3	145.2	136.0	132.6	126.7
72.5°	273.5	279.7	258.2	217.0	177.7	152.4	133.1	122.4	117.4	114.7	110.8
75°	205.2	200.6	182.1	149.8	123.4	106.2	100.3	96.3	93.0	90.4	88.4
77.5°	144.1	137.3	120.9	99.8	85.9	77.7	74.1	72.1	70.4	69.1	67.2
80°	108.2	103.6	87.1	71.3	65.3	61.4	59.4	56.7	56.7	55.4	53.5
82.5°	79.2	74.0	59.7	52.3	49.0	46.6	45.1	43.6	43.0	43.3	41.8
85°	41.6	33.7	29.7	28.4	26.4	25.1	25.7	24.5	24.5	24.5	23.8
87.5°	12.9	10.5	10.2	9.9	10.7	11.1	10.9	11.4	12.2	11.7	12.1
90°	1.5	2.5	3.5	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3
92.5°	7.7	8.4	9.2	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5
95°	21.2	22.0	22.9	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0
97.5°	37.8	38.6	39.3	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9
100°	50.2	50.9	51.7	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8
102.5°	63.2	63.7	64.3	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7
105°	84.1	84.4	84.6	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2
107.5°	105.6	106.0	106.4	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1
110°	119.5	120.0	120.5	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3





TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.5	135.0	135.5	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6
115°	156.5	157.0	157.6	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4
117.5°	178.7	179.4	180.1	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6
120°	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7
122.5°	207.0	207.8	208.6	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2
125°	227.8	228.6	229.4	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9
127.5°	248.4	249.3	250.4	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8
130°	261.3	262.4	263.6	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2
132.5°	275.4	276.4	277.3	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1
135°	294.7	295.7	296.6	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6
137.5°	314.7	315.5	316.2	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3
140°	326.9	327.7	328.5	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6
142.5°	339.4	340.2	341.0	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5
145°	357.1	357.7	358.3	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8
147.5°	373.2	374.0	374.7	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7
150°	384.0	384.5	385.0	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9
152.5°	393.6	394.2	394.7	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0
155°	407.9	408.1	408.5	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9
157.5°	420.3	420.4	420.6	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7
160°	427.7	427.9	428.1	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7
162.5°	434.5	434.5	434.5	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1
165°	443.4	443.3	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4
167.5°	450.9	450.6	450.4	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2
170°	455.0	454.7	454.4	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9
172.5°	457.8	457.5	457.3	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7
175°	461.2	461.0	460.7	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7
177.5°	462.7	462.4	462.3	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1965.4	1972.2	1975.4	1975.4	1979.1	1977.5	1975.9
5°	2078.4	2090.9	2093.5	2105.4	2113.9	2111.3	2112.6
7.5°	2190.6	2210.8	2230.8	2239.9	2241.3	2246.6	2248.6
10°	2259.8	2276.3	2307.3	2302.7	2325.7	2339.0	2317.2
12.5°	2326.2	2348.5	2370.1	2376.0	2389.1	2393.3	2384.7
15°	2386.4	2398.3	2399.7	2396.3	2400.3	2397.0	2384.5
17.5°	2330.2	2311.0	2271.9	2253.4	2238.8	2217.2	2208.5
20°	2237.3	2180.6	2114.6	2088.3	2057.2	1996.5	2011.0
22.5°	2036.8	1972.1	1906.2	1829.1	1792.3	1734.7	1731.3
25°	1724.7	1613.2	1490.5	1404.7	1354.5	1297.2	1272.0
27.5°	1340.9	1200.6	1100.0	1049.0	1002.7	957.3	955.4
30°	1088.6	983.1	905.3	861.7	833.3	814.2	818.1
32.5°	917.7	845.3	792.8	756.6	735.6	721.3	721.0
35°	750.2	700.7	667.0	651.9	636.7	626.1	626.8
37.5°	642.0	612.3	593.6	576.8	567.3	562.1	559.2
40°	586.5	562.1	547.6	537.7	529.8	522.5	521.2
42.5°	542.8	522.5	508.1	500.2	492.8	487.8	486.4
45°	481.6	465.1	451.9	443.4	440.1	435.5	435.5
47.5°	428.4	412.2	401.9	396.6	390.9	387.8	387.7
50°	392.6	380.0	370.8	367.5	362.9	360.9	360.2
52.5°	360.4	351.0	344.4	342.2	340.2	337.7	338.1
55°	316.7	311.4	308.8	306.8	303.5	299.5	302.2
57.5°	279.9	275.4	268.3	262.1	259.1	256.2	257.4
60°	254.0	244.8	235.6	228.3	226.3	220.3	220.3
62.5°	221.3	208.4	197.0	193.0	191.0	188.2	187.6
65°	170.2	165.0	162.3	159.6	158.3	158.3	157.0
67.5°	141.0	139.0	136.0	135.3	134.1	133.7	133.3
70°	124.7	122.1	120.7	120.1	118.7	119.4	117.4
72.5°	108.8	106.8	106.5	104.8	104.0	104.1	102.6
75°	85.8	85.8	85.2	84.5	83.2	82.5	83.2
77.5°	66.0	66.1	64.9	64.8	64.7	64.8	64.1
80°	52.8	53.5	52.8	52.1	51.5	52.1	51.5
82.5°	41.7	40.8	40.6	40.6	40.4	40.0	39.9
85°	23.8	24.5	23.8	23.1	23.1	23.1	23.8
87.5°	11.6	11.5	11.5	11.5	11.6	11.6	11.1
90°	13.2	13.0	12.9	13.0	13.1	13.2	13.3
92.5°	12.5	12.6	12.6	12.6	12.6	12.7	12.7
95°	25.0	25.0	24.9	24.7	24.5	24.4	24.2
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.8	53.8	53.8	53.7	53.6	53.6	53.5
102.5°	66.8	66.9	66.9	66.8	66.7	66.6	66.6
105°	86.4	86.5	86.6	86.6	86.6	86.6	86.6
107.5°	107.2	107.3	107.1	106.7	106.2	105.9	105.5
110°	121.3	121.3	121.1	120.9	120.6	120.4	120.1



TEST NUMBER: P331846-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	135.3	135.2	134.9	134.7	134.6	134.4	134.2
115°	157.3	157.2	157.0	156.8	156.5	156.3	156.0
117.5°	178.3	178.1	177.9	177.6	177.4	177.1	176.8
120°	192.7	192.7	192.6	192.3	192.1	191.8	191.6
122.5°	207.1	206.8	206.6	206.5	206.3	206.0	205.9
125°	228.6	228.3	228.2	228.1	228.0	227.9	227.8
127.5°	249.5	249.2	248.9	248.6	248.3	248.1	247.8
130°	264.0	263.8	263.6	263.2	262.9	262.5	262.2
132.5°	277.7	277.3	277.0	276.7	276.4	276.1	275.9
135°	298.5	298.4	298.3	298.0	297.7	297.5	297.2
137.5°	318.2	318.2	318.0	317.6	317.3	316.9	316.6
140°	331.6	331.6	331.4	331.1	330.7	330.4	330.0
142.5°	343.6	343.7	343.5	343.2	342.9	342.5	342.2
145°	361.9	362.0	361.8	361.4	361.1	360.8	360.4
147.5°	378.0	378.2	378.1	377.7	377.4	377.0	376.8
150°	388.1	388.4	388.4	388.1	387.9	387.6	387.4
152.5°	398.3	398.6	398.6	398.3	398.0	397.7	397.4
155°	411.3	411.7	411.8	411.6	411.3	411.0	410.8
157.5°	423.3	423.9	424.0	423.5	423.1	422.8	422.3
160°	430.2	430.8	430.8	430.5	430.2	429.8	429.5
162.5°	436.7	437.3	437.4	437.0	436.5	436.1	435.8
165°	445.0	445.6	445.7	445.2	444.8	444.4	443.9
167.5°	451.8	452.4	452.5	451.9	451.5	451.1	450.6
170°	455.5	456.1	456.2	455.6	455.1	454.6	454.1
172.5°	458.3	458.9	458.9	458.4	457.9	457.4	456.8
175°	461.3	461.9	462.0	461.5	461.0	460.5	459.9
177.5°	462.5	463.0	463.0	462.5	462.2	461.8	461.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3

(END OF REPORT)