

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: P332836-935

Luminaire Tested: **S124DIW-S1195D470U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332836-935  
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: S124DIW-S1195D470U935-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5979.6 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

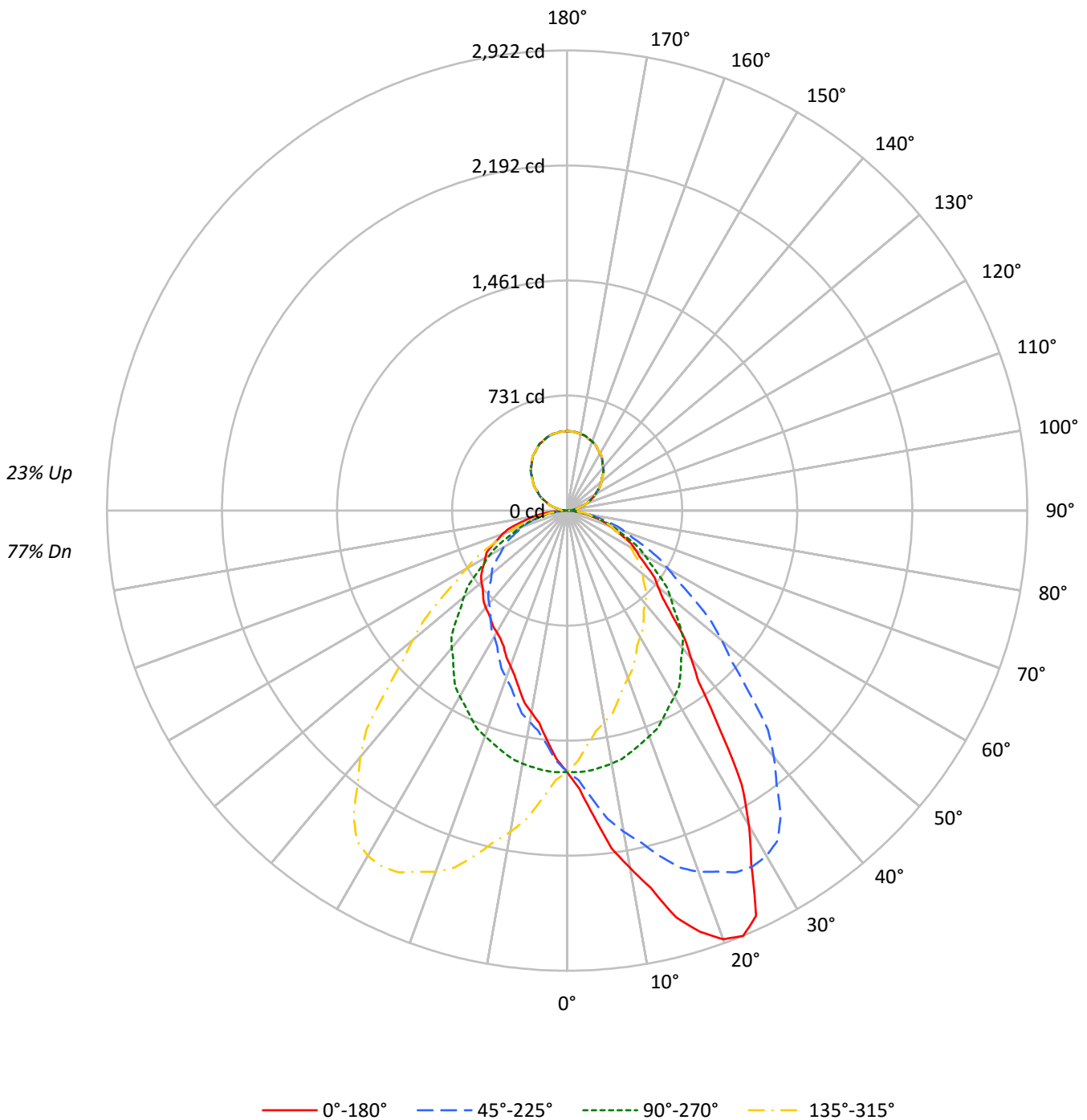
Input Watts (W): 52.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81	81	81	81	81	81	81	77		
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	69	69	69	69	69	69	65		
2	95	88	81	76	90	84	78	73	76	72	68	70	66	63	64	61	58	58	58	58	58	58	58	55		
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50	50	50	50	50	50	50	47		
4	80	69	61	54	76	66	59	53	61	54	50	56	51	47	51	47	44	44	44	44	44	44	44	41		
5	74	62	53	47	70	59	51	46	54	48	43	50	45	41	46	42	38	38	38	38	38	38	38	36		
6	68	56	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34	34	34	34	34	34	34	31		
7	63	50	42	36	60	49	41	36	45	38	34	42	36	32	38	34	30	30	30	30	30	30	30	28		
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	35	31	27	27	27	27	27	27	27	25		
9	55	42	34	29	52	41	33	29	38	32	27	35	30	26	33	28	25	25	25	25	25	25	25	23		
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22	22	22	22	22	22	22	21		

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

	0°	90°	180°	270°
0°	13397	13397	13397	13397
5°	15776	13431	11854	13431
10°	18889	13373	10673	13373
15°	22349	13237	9802	13237
20°	24887	13099	9024	13099
25°	25289	12896	8487	12896
30°	21519	12701	8318	12701
35°	16544	12384	8319	12384
40°	12896	12012	8476	12012
45°	10752	11451	8617	11451
50°	9463	10766	8911	10766
55°	8670	9947	9270	9947
60°	8125	9213	9700	9213
65°	7564	8392	10059	8392
70°	6911	7579	10286	7579
75°	6173	6669	10162	6669
80°	5174	5463	9842	5463
85°	3816	3946	9429	3946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.7	2.7
10°-20°	498.3	8.3
20°-30°	790.2	13.2
30°-40°	879.4	14.7
40°-50°	800.5	13.4
50°-60°	654.1	10.9
60°-70°	467.0	7.8
70°-80°	257.1	4.3
80°-90°	71.7	1.2
90°-100°	33.3	0.6
100°-110°	98.6	1.6
110°-120°	167.3	2.8
120°-130°	220.6	3.7
130°-140°	247.7	4.1
140°-150°	243.4	4.1
150°-160°	204.8	3.4
160°-170°	136.2	2.3
170°-180°	47.7	0.8
0°-30°	1450.2	24.3
0°-40°	2329.6	39.0
0°-60°	3784.2	63.3
0°-90°	4580.0	76.6
90°-120°	299.1	5.0
90°-150°	1010.9	16.9
90°-180°	1400.0	23.4
0°-180°	5979.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1947	1657	1463	1657	1947	198
15°	2674	1584	1173	1584	2674	756
25°	2839	1448	953	1448	2839	1252
35°	1679	1257	844	1257	1679	1066
45°	942	1003	755	1003	942	742
55°	616	707	659	707	616	556
65°	396	439	527	439	396	392
75°	198	214	326	214	198	210
85°	41	43	102	43	41	51
90°	12	1	12	1	12	8
95°	31	23	31	23	31	32
105°	95	91	95	91	95	100
115°	169	170	169	170	169	167
125°	246	248	246	248	246	219
135°	320	320	320	320	320	247
145°	389	388	389	388	389	243
155°	444	445	444	445	444	205
165°	483	484	483	484	483	136
175°	501	504	501	504	501	48
180°	504	504	504	504	504	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1766.2	1765.6	1760.1	1759.0	1755.1	1750.2	1749.1	1740.3	1722.7	1714.4	1712.3
5°	1946.8	1960.6	1942.7	1939.2	1937.2	1914.5	1902.8	1889.0	1857.4	1838.9	1824.5
7.5°	2162.4	2164.0	2156.2	2149.9	2132.4	2112.6	2082.9	2051.3	2013.6	1974.4	1944.9
10°	2304.3	2309.8	2300.9	2299.5	2264.4	2242.4	2198.4	2161.3	2118.7	2071.2	2027.9
12.5°	2453.8	2446.2	2441.6	2412.2	2405.7	2365.6	2314.5	2276.2	2210.5	2155.9	2098.3
15°	2674.1	2659.0	2649.4	2608.8	2588.9	2533.1	2478.9	2437.0	2351.0	2269.3	2207.3
17.5°	2803.3	2818.5	2796.2	2779.6	2728.0	2689.0	2633.5	2545.5	2478.2	2376.6	2298.5
20°	2896.8	2898.2	2885.8	2868.7	2828.1	2778.6	2718.1	2621.8	2541.4	2440.4	2333.1
22.5°	2922.1	2922.4	2917.2	2901.1	2870.4	2830.3	2769.2	2689.0	2591.5	2481.7	2374.4
25°	2839.1	2836.3	2842.5	2860.4	2848.7	2836.3	2801.3	2741.5	2650.8	2534.5	2419.1
27.5°	2530.6	2549.5	2584.5	2628.5	2670.8	2703.1	2712.2	2699.9	2643.7	2548.2	2427.2
30°	2308.4	2331.8	2357.9	2401.8	2487.2	2535.9	2589.5	2630.1	2607.5	2531.2	2418.4
32.5°	2064.2	2070.0	2108.8	2158.8	2236.9	2330.8	2415.8	2498.1	2525.5	2485.4	2391.4
35°	1678.7	1688.3	1730.3	1779.8	1875.3	1990.1	2118.0	2232.1	2326.2	2364.0	2315.9
37.5°	1369.9	1397.6	1427.1	1480.3	1564.4	1667.8	1800.7	1948.4	2088.7	2182.7	2198.6
40°	1223.7	1240.8	1262.1	1302.7	1374.2	1475.9	1590.0	1759.1	1908.3	2043.1	2087.1
42.5°	1108.1	1118.2	1131.3	1167.9	1222.4	1323.6	1427.8	1576.6	1726.3	1887.4	1961.1
45°	941.8	952.1	974.0	995.4	1036.6	1106.7	1203.7	1326.0	1476.6	1631.9	1768.1
47.5°	821.7	828.2	841.3	864.1	899.1	945.4	1024.2	1126.4	1266.0	1416.8	1561.9
50°	753.5	758.9	769.2	789.9	816.7	857.9	922.6	1018.0	1127.4	1279.3	1421.6
52.5°	699.6	701.7	709.3	723.3	744.6	779.3	832.3	911.4	1013.0	1148.4	1290.2
55°	616.0	618.7	625.6	635.8	654.4	676.4	717.0	776.1	864.8	982.3	1105.4
57.5°	547.2	549.1	554.9	558.9	574.1	592.0	623.2	665.5	732.6	832.3	942.2
60°	503.2	501.8	508.7	512.1	522.5	537.6	561.6	602.2	660.6	741.1	842.1
62.5°	460.3	458.4	464.2	468.7	474.6	487.5	507.2	539.0	586.3	659.1	746.4
65°	396.0	393.2	396.7	402.2	407.7	414.5	429.0	457.1	495.0	547.2	613.9
67.5°	331.3	334.2	334.8	337.5	340.7	350.1	359.9	379.9	406.6	448.3	504.9
70°	292.8	293.5	296.3	296.3	298.3	306.6	314.9	326.5	352.7	391.2	437.2
72.5°	254.3	257.3	256.1	258.3	259.8	265.4	271.4	282.5	304.8	333.4	372.3
75°	197.9	200.0	200.0	200.7	202.8	204.8	209.7	217.9	233.8	255.0	281.8
77.5°	144.4	144.6	145.6	148.1	148.1	151.4	155.0	161.5	169.4	184.0	200.4
80°	111.3	112.7	112.0	113.4	113.4	116.1	117.5	125.8	129.2	138.9	151.9
82.5°	81.7	83.0	82.9	84.8	85.9	86.4	88.4	91.7	95.1	103.7	109.0
85°	41.2	42.6	41.2	42.6	44.7	45.4	47.4	48.1	50.9	53.0	57.8
87.5°	14.5	16.0	16.0	16.5	17.6	18.1	18.5	17.9	20.0	20.4	22.5
90°	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6	9.1	8.6	7.9
92.5°	17.3	17.2	17.1	17.0	16.9	16.7	16.4	16.1	15.8	15.4	15.0
95°	30.8	30.8	30.8	30.8	30.8	30.7	30.4	30.1	29.9	29.6	29.0
97.5°	48.3	48.3	48.3	48.3	48.3	48.1	47.9	47.5	47.2	46.9	46.1
100°	60.4	60.4	60.4	60.4	60.4	60.4	60.2	60.0	59.8	59.7	58.9
102.5°	74.2	74.1	74.0	74.0	74.0	73.8	73.5	73.3	73.0	72.8	72.1
105°	95.2	95.0	94.7	94.5	94.2	93.9	93.7	93.4	93.1	92.8	92.5
107.5°	115.6	115.6	115.7	115.7	115.7	115.6	115.4	115.1	114.9	114.6	114.6
110°	130.3	130.0	129.8	129.5	129.2	129.2	129.4	129.6	129.8	129.9	130.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	145.3	145.3	145.2	145.2	145.1	145.1	145.1	145.2	145.2	145.3	145.3
115°	168.6	168.7	168.8	168.8	168.9	169.0	169.1	169.2	169.3	169.4	169.5
117.5°	190.7	190.9	191.1	191.2	191.4	191.7	191.9	192.3	192.5	192.8	193.0
120°	207.6	207.4	207.2	207.1	206.9	207.0	207.4	207.8	208.3	208.7	209.0
122.5°	221.6	221.9	222.2	222.6	222.8	223.2	223.4	223.8	224.0	224.4	224.5
125°	245.8	246.0	246.2	246.3	246.5	246.7	246.8	247.0	247.2	247.4	247.5
127.5°	268.2	268.4	268.5	268.6	268.7	268.9	269.1	269.2	269.4	269.6	269.8
130°	282.8	283.2	283.5	283.9	284.2	284.5	284.6	284.8	285.0	285.2	285.2
132.5°	298.5	298.6	298.8	298.9	299.0	299.2	299.4	299.5	299.7	299.9	300.0
135°	319.9	320.2	320.5	320.7	321.0	321.2	321.3	321.5	321.7	321.8	321.8
137.5°	342.5	342.4	342.3	342.3	342.2	342.3	342.6	342.8	343.0	343.3	343.1
140°	356.2	356.3	356.4	356.5	356.5	356.6	356.7	356.8	356.9	357.0	357.0
142.5°	370.0	370.0	370.0	370.0	370.0	370.1	370.1	370.1	370.1	370.1	370.1
145°	388.6	388.8	389.1	389.3	389.6	389.8	389.9	389.9	390.0	390.1	390.0
147.5°	407.5	407.6	407.7	407.8	407.9	407.9	407.9	408.0	408.1	408.2	408.3
150°	419.0	419.1	419.2	419.3	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	429.6	429.9	430.1	430.3	430.5	430.6	430.3	430.2	429.9	429.7	429.6
155°	444.4	444.7	445.1	445.4	445.7	445.7	445.4	445.1	444.7	444.4	444.4
157.5°	457.5	457.9	458.1	458.5	458.7	458.7	458.5	458.2	458.0	457.7	457.7
160°	465.0	465.5	466.0	466.4	466.8	466.9	466.7	466.4	466.1	465.9	466.0
162.5°	472.9	473.3	473.7	474.2	474.6	474.6	474.2	473.6	473.2	472.7	472.8
165°	483.0	483.4	483.7	484.1	484.4	484.3	483.8	483.3	482.8	482.2	482.4
167.5°	490.3	490.8	491.4	491.9	492.4	492.4	491.9	491.4	490.9	490.3	490.3
170°	494.3	494.9	495.5	496.1	496.7	496.8	496.3	495.8	495.2	494.7	494.6
172.5°	497.7	498.3	498.9	499.6	500.2	500.2	499.6	499.0	498.4	497.8	497.8
175°	501.4	502.0	502.6	503.2	503.8	503.8	503.2	502.6	502.0	501.4	501.4
177.5°	503.3	503.8	504.4	504.9	505.4	505.5	505.0	504.5	504.0	503.5	503.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1712.8	1705.1	1699.6	1695.2	1683.1	1675.9	1670.4	1662.8	1654.0	1644.6	1633.1
5°	1810.0	1786.7	1769.4	1743.4	1718.6	1698.0	1676.6	1657.4	1634.0	1608.6	1590.0
7.5°	1912.2	1877.4	1832.8	1794.2	1750.8	1713.0	1679.1	1644.5	1608.4	1573.6	1541.5
10°	1977.0	1932.3	1882.8	1824.5	1769.4	1720.6	1675.2	1631.3	1588.6	1546.0	1509.6
12.5°	2046.9	1991.2	1918.0	1849.8	1788.1	1722.9	1668.1	1614.2	1562.8	1518.0	1475.5
15°	2140.7	2060.2	1975.7	1884.2	1803.1	1726.8	1651.9	1583.8	1526.1	1467.0	1425.7
17.5°	2198.3	2098.8	2002.1	1906.5	1808.4	1712.1	1631.3	1552.8	1480.5	1421.8	1369.8
20°	2236.2	2137.3	2016.9	1921.4	1804.5	1705.6	1612.1	1524.7	1449.1	1386.6	1332.9
22.5°	2269.3	2154.8	2034.5	1908.8	1792.4	1687.4	1585.1	1497.2	1420.0	1354.1	1302.7
25°	2287.1	2155.8	2025.2	1900.1	1768.1	1643.6	1550.8	1447.8	1365.2	1295.8	1240.8
27.5°	2289.1	2148.6	2000.9	1861.8	1725.6	1609.7	1492.5	1400.4	1314.7	1241.4	1188.6
30°	2282.9	2136.6	1977.7	1827.2	1690.4	1564.6	1462.8	1362.5	1275.2	1202.3	1147.3
32.5°	2263.7	2111.3	1948.0	1788.7	1646.9	1523.9	1418.8	1323.4	1238.4	1166.6	1108.8
35°	2208.0	2057.4	1883.5	1717.9	1572.9	1448.5	1353.6	1256.6	1171.4	1103.4	1047.7
37.5°	2121.0	1984.9	1808.1	1636.7	1494.2	1369.2	1275.2	1187.6	1110.8	1041.6	984.6
40°	2045.1	1925.5	1748.2	1581.1	1427.1	1308.2	1220.2	1139.8	1063.4	998.2	943.8
42.5°	1957.7	1853.5	1689.9	1512.9	1364.4	1244.9	1159.2	1086.9	1015.0	954.7	900.4
45°	1801.7	1733.0	1579.1	1415.4	1260.8	1148.0	1066.2	1003.0	942.5	883.4	838.0
47.5°	1622.5	1588.4	1458.7	1303.4	1156.5	1045.4	974.5	916.1	863.0	813.0	772.9
50°	1502.0	1485.6	1373.5	1223.7	1083.4	978.9	907.4	857.2	811.8	767.8	730.0
52.5°	1383.3	1382.7	1281.7	1144.4	1014.7	914.0	843.1	796.2	756.9	721.1	687.2
55°	1201.6	1220.9	1141.9	1019.4	903.3	812.5	748.6	706.7	679.2	649.6	624.2
57.5°	1034.8	1066.8	1001.6	893.8	796.9	713.3	657.6	626.1	596.8	578.9	560.4
60°	926.0	956.2	905.3	814.6	723.2	651.7	598.7	570.6	545.1	532.8	519.7
62.5°	829.1	856.1	818.5	734.3	655.0	586.3	541.6	514.4	497.3	483.8	475.2
65°	690.9	713.6	681.2	620.1	552.0	497.1	460.5	439.3	422.8	417.2	407.7
67.5°	558.4	579.1	561.6	509.6	455.0	413.5	385.0	364.5	354.7	349.9	343.0
70°	479.8	500.4	481.9	436.5	394.6	359.6	332.7	321.1	310.7	308.7	299.0
72.5°	413.3	427.3	408.7	373.2	337.4	307.8	287.1	274.8	269.5	265.8	260.5
75°	310.0	322.4	310.0	282.5	257.1	236.5	218.6	213.8	207.6	205.5	202.1
77.5°	219.5	230.1	220.7	203.5	184.5	168.6	158.9	152.7	151.4	147.8	149.5
80°	167.7	174.6	165.7	153.9	138.9	127.9	121.0	117.5	113.4	112.0	114.8
82.5°	120.5	123.5	118.9	111.1	99.8	92.6	88.0	84.0	83.2	83.4	83.4
85°	62.6	61.9	61.2	54.3	50.9	46.1	43.3	42.6	41.9	43.3	44.7
87.5°	22.3	22.7	22.0	19.7	17.8	16.0	15.2	14.6	15.2	16.0	16.8
90°	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2	2.2	3.1	4.0
92.5°	14.5	14.0	13.5	12.7	11.6	10.5	9.5	8.4	9.5	10.5	11.6
95°	28.4	27.8	27.2	26.5	25.7	25.0	24.2	23.4	24.2	25.0	25.7
97.5°	45.5	44.8	44.1	43.4	42.8	42.1	41.5	40.9	41.5	42.1	42.8
100°	58.1	57.3	56.6	56.1	55.6	55.3	54.9	54.6	54.9	55.3	55.6
102.5°	71.4	70.7	70.0	69.6	69.4	69.2	69.1	69.0	69.1	69.2	69.4
105°	92.1	91.8	91.4	91.3	91.2	91.1	91.0	90.9	91.0	91.1	91.2
107.5°	114.5	114.5	114.4	114.3	114.3	114.2	114.0	113.9	114.0	114.2	114.3
110°	130.1	130.2	130.3	130.2	130.0	129.8	129.7	129.5	129.7	129.8	130.0





TEST NUMBER: P332836-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	145.5	145.7	145.9	145.9	145.9	145.9	145.8	145.8	145.8	145.9	145.9
115°	169.7	169.9	170.0	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
117.5°	193.0	193.2	193.3	193.3	193.3	193.2	193.1	193.0	193.1	193.2	193.3
120°	209.2	209.5	209.7	209.7	209.4	209.1	208.7	208.4	208.7	209.1	209.4
122.5°	224.5	224.7	224.8	224.8	224.6	224.5	224.4	224.3	224.4	224.5	224.6
125°	247.5	247.6	247.7	247.7	247.7	247.7	247.7	247.7	247.7	247.7	247.7
127.5°	269.8	270.0	270.2	270.1	269.8	269.6	269.3	269.1	269.3	269.6	269.8
130°	285.2	285.2	285.2	285.1	284.8	284.6	284.3	284.0	284.3	284.6	284.8
132.5°	300.0	300.1	300.1	300.1	299.9	299.7	299.5	299.3	299.5	299.7	299.9
135°	321.8	321.8	321.8	321.6	321.1	320.6	320.0	319.5	320.0	320.6	321.1
137.5°	343.0	342.9	342.7	342.5	342.2	342.0	341.8	341.6	341.8	342.0	342.2
140°	357.0	357.0	357.0	356.9	356.7	356.5	356.4	356.2	356.4	356.5	356.7
142.5°	370.2	370.3	370.4	370.3	370.1	370.0	369.8	369.6	369.8	370.0	370.1
145°	389.9	389.9	389.8	389.6	389.3	388.9	388.6	388.2	388.6	388.9	389.3
147.5°	408.3	408.4	408.5	408.3	407.9	407.4	407.0	406.7	407.0	407.4	407.9
150°	419.4	419.4	419.4	419.2	418.9	418.5	418.2	417.8	418.2	418.5	418.9
152.5°	429.6	429.5	429.5	429.3	429.1	428.9	428.7	428.4	428.7	428.9	429.1
155°	444.5	444.6	444.7	444.8	444.8	444.8	444.8	444.8	444.8	444.8	444.8
157.5°	457.8	457.8	457.8	457.9	458.1	458.2	458.3	458.5	458.3	458.2	458.1
160°	466.1	466.1	466.2	466.3	466.4	466.5	466.6	466.7	466.6	466.5	466.4
162.5°	472.9	472.9	473.0	473.2	473.5	473.6	473.9	474.2	473.9	473.6	473.5
165°	482.6	482.8	482.9	483.1	483.4	483.6	483.9	484.1	483.9	483.6	483.4
167.5°	490.3	490.3	490.3	490.4	490.9	491.2	491.5	491.9	491.5	491.2	490.9
170°	494.6	494.5	494.4	494.6	495.0	495.4	495.8	496.3	495.8	495.4	495.0
172.5°	497.8	497.7	497.7	497.9	498.3	498.7	499.0	499.4	499.0	498.7	498.3
175°	501.5	501.6	501.7	502.0	502.4	502.8	503.3	503.7	503.3	502.8	502.4
177.5°	503.5	503.5	503.5	503.7	504.0	504.4	504.7	505.1	504.7	504.4	504.0
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P332836-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1627.5	1622.6	1615.5	1605.6	1597.3	1588.5	1586.3	1583.0	1589.6	1584.2	1582.4
5°	1574.3	1559.8	1541.2	1519.9	1507.5	1489.7	1486.3	1479.4	1472.5	1471.8	1464.9
7.5°	1517.7	1496.5	1472.2	1450.4	1430.4	1410.9	1398.1	1395.3	1385.2	1379.2	1372.3
10°	1481.4	1455.3	1427.1	1406.5	1383.1	1362.5	1348.1	1339.8	1332.9	1325.3	1318.5
12.5°	1438.6	1410.7	1387.5	1365.2	1337.5	1321.8	1298.0	1283.8	1282.4	1282.5	1264.6
15°	1388.6	1361.2	1325.3	1293.7	1278.6	1248.4	1235.3	1218.8	1208.5	1198.2	1190.0
17.5°	1331.5	1297.4	1269.4	1233.1	1204.3	1180.2	1163.0	1153.1	1137.6	1123.0	1112.4
20°	1295.8	1259.4	1229.9	1191.3	1159.7	1130.1	1115.7	1102.0	1090.3	1077.9	1066.2
22.5°	1259.5	1221.4	1185.3	1147.9	1118.4	1087.3	1073.3	1054.6	1043.5	1036.6	1024.9
25°	1202.3	1161.1	1119.8	1084.1	1053.9	1026.3	1007.8	993.3	980.9	975.4	967.9
27.5°	1140.1	1099.2	1059.4	1018.7	984.4	964.5	949.6	938.7	931.6	924.3	920.9
30°	1100.6	1058.0	1015.4	977.5	945.9	926.0	912.2	904.7	899.1	895.7	892.3
32.5°	1060.4	1018.4	973.5	939.0	910.7	892.9	882.5	874.9	872.2	871.0	869.8
35°	996.1	953.5	912.2	881.3	854.5	847.6	838.7	834.6	833.2	838.0	840.1
37.5°	933.8	894.2	856.3	826.3	808.7	798.7	795.7	795.7	800.7	804.9	809.9
40°	893.6	855.1	819.4	793.3	776.8	770.6	769.2	772.7	778.2	783.0	788.5
42.5°	854.6	816.7	784.2	759.7	748.2	742.5	743.4	746.8	754.5	760.4	768.7
45°	794.0	762.3	730.7	710.8	701.2	702.6	702.6	708.8	716.3	725.2	734.2
47.5°	736.9	705.1	679.1	662.3	657.3	656.1	660.0	668.0	678.9	689.9	702.4
50°	698.4	668.2	645.5	630.3	624.9	627.0	632.4	640.0	653.1	666.8	679.8
52.5°	659.4	631.9	610.9	596.8	593.0	596.7	602.2	614.2	625.6	640.4	656.3
55°	598.7	575.4	558.9	548.5	547.2	549.2	555.4	568.5	585.0	603.6	618.7
57.5°	538.4	518.8	503.8	496.6	497.3	499.2	509.4	525.0	542.5	562.3	581.9
60°	497.7	479.8	467.4	461.9	462.6	466.7	479.1	493.6	515.6	534.9	555.4
62.5°	459.2	443.5	431.7	426.8	425.8	434.9	446.7	461.7	483.7	505.1	527.4
65°	397.4	385.0	375.3	372.6	374.6	381.5	396.7	416.6	435.1	457.8	481.2
67.5°	336.8	326.7	320.0	321.3	323.8	334.0	346.6	363.8	384.9	408.4	431.4
70°	298.3	288.7	283.2	283.9	288.0	300.4	311.4	328.6	351.3	375.3	394.6
72.5°	258.7	252.4	247.5	250.4	254.5	263.0	276.7	293.9	313.9	336.3	356.6
75°	198.6	198.6	195.9	197.9	204.1	212.4	222.7	240.6	260.5	278.4	294.9
77.5°	147.4	145.9	147.7	150.2	153.7	163.5	175.3	188.0	203.1	220.9	234.5
80°	112.7	113.4	116.8	121.0	122.3	129.9	142.3	153.9	165.7	180.8	193.9
82.5°	84.7	85.4	87.1	92.4	93.8	101.9	109.9	121.6	132.2	142.3	153.2
85°	46.1	46.1	49.5	51.6	55.0	60.5	65.3	72.2	81.8	88.7	99.0
87.5°	18.6	18.8	21.1	22.3	24.1	27.0	28.2	34.4	36.7	39.5	44.5
90°	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6	10.2	10.7	11.0
92.5°	12.7	13.5	14.0	14.5	15.0	15.4	15.8	16.1	16.4	16.7	16.9
95°	26.5	27.2	27.8	28.4	29.0	29.6	29.9	30.1	30.4	30.7	30.8
97.5°	43.4	44.1	44.8	45.5	46.1	46.9	47.2	47.5	47.9	48.1	48.3
100°	56.1	56.6	57.3	58.1	58.9	59.7	59.8	60.0	60.2	60.4	60.4
102.5°	69.6	70.0	70.7	71.4	72.1	72.8	73.0	73.3	73.5	73.8	74.0
105°	91.3	91.4	91.8	92.1	92.5	92.8	93.1	93.4	93.7	93.9	94.2
107.5°	114.3	114.4	114.5	114.5	114.6	114.6	114.9	115.1	115.4	115.6	115.7
110°	130.2	130.3	130.2	130.1	130.0	129.9	129.8	129.6	129.4	129.2	129.2



TEST NUMBER: P332836-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	145.9	145.9	145.7	145.5	145.3	145.3	145.2	145.2	145.1	145.1	145.1
115°	170.1	170.0	169.9	169.7	169.5	169.4	169.3	169.2	169.1	169.0	168.9
117.5°	193.3	193.3	193.2	193.0	193.0	192.8	192.5	192.3	191.9	191.7	191.4
120°	209.7	209.7	209.5	209.2	209.0	208.7	208.3	207.8	207.4	207.0	206.9
122.5°	224.8	224.8	224.7	224.5	224.5	224.4	224.0	223.8	223.4	223.2	222.8
125°	247.7	247.7	247.6	247.5	247.5	247.4	247.2	247.0	246.8	246.7	246.5
127.5°	270.1	270.2	270.0	269.8	269.8	269.6	269.4	269.2	269.1	268.9	268.7
130°	285.1	285.2	285.2	285.2	285.2	285.2	285.0	284.8	284.6	284.5	284.2
132.5°	300.1	300.1	300.1	300.0	300.0	299.9	299.7	299.5	299.4	299.2	299.0
135°	321.6	321.8	321.8	321.8	321.8	321.8	321.7	321.5	321.3	321.2	321.0
137.5°	342.5	342.7	342.9	343.0	343.1	343.3	343.0	342.8	342.6	342.3	342.2
140°	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.8	356.7	356.6	356.5
142.5°	370.3	370.4	370.3	370.2	370.1	370.1	370.1	370.1	370.1	370.1	370.0
145°	389.6	389.8	389.9	389.9	390.0	390.1	390.0	389.9	389.9	389.8	389.6
147.5°	408.3	408.5	408.4	408.3	408.3	408.2	408.1	408.0	407.9	407.9	407.9
150°	419.2	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	429.3	429.5	429.5	429.6	429.6	429.7	429.9	430.2	430.3	430.6	430.5
155°	444.8	444.7	444.6	444.5	444.4	444.4	444.7	445.1	445.4	445.7	445.7
157.5°	457.9	457.8	457.8	457.8	457.7	457.7	458.0	458.2	458.5	458.7	458.7
160°	466.3	466.2	466.1	466.1	466.0	465.9	466.1	466.4	466.7	466.9	466.8
162.5°	473.2	473.0	472.9	472.9	472.8	472.7	473.2	473.6	474.2	474.6	474.6
165°	483.1	482.9	482.8	482.6	482.4	482.2	482.8	483.3	483.8	484.3	484.4
167.5°	490.4	490.3	490.3	490.3	490.3	490.3	490.9	491.4	491.9	492.4	492.4
170°	494.6	494.4	494.5	494.6	494.6	494.7	495.2	495.8	496.3	496.8	496.7
172.5°	497.9	497.7	497.7	497.8	497.8	497.8	498.4	499.0	499.6	500.2	500.2
175°	502.0	501.7	501.6	501.5	501.4	501.4	502.0	502.6	503.2	503.8	503.8
177.5°	503.7	503.5	503.5	503.5	503.5	503.5	504.0	504.5	505.0	505.5	505.4
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P332836-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1581.4	1580.3	1576.4	1575.9	1576.4	1580.3	1581.4	1582.4	1584.2	1589.6	1583.0
5°	1460.8	1457.3	1455.3	1462.8	1455.3	1457.3	1460.8	1464.9	1471.8	1472.5	1479.4
7.5°	1369.9	1367.2	1361.2	1359.2	1361.2	1367.2	1369.9	1372.3	1379.2	1385.2	1395.3
10°	1311.6	1308.9	1303.4	1302.0	1303.4	1308.9	1311.6	1318.5	1325.3	1332.9	1339.8
12.5°	1255.5	1250.0	1249.0	1250.3	1249.0	1250.0	1255.5	1264.6	1282.5	1282.4	1283.8
15°	1181.0	1178.3	1170.7	1172.8	1170.7	1178.3	1181.0	1190.0	1198.2	1208.5	1218.8
17.5°	1107.6	1104.3	1095.1	1103.2	1095.1	1104.3	1107.6	1112.4	1123.0	1137.6	1153.1
20°	1061.4	1055.9	1051.1	1050.4	1051.1	1055.9	1061.4	1066.2	1077.9	1090.3	1102.0
22.5°	1017.4	1012.4	1012.0	1007.5	1012.0	1012.4	1017.4	1024.9	1036.6	1043.5	1054.6
25°	962.4	957.6	956.2	952.8	956.2	957.6	962.4	967.9	975.4	980.9	993.3
27.5°	920.2	917.8	915.4	916.4	915.4	917.8	920.2	920.9	924.3	931.6	938.7
30°	894.3	893.6	892.3	892.3	892.3	893.6	894.3	892.3	895.7	899.1	904.7
32.5°	872.9	872.8	873.6	873.6	873.6	872.8	872.9	869.8	871.0	872.2	874.9
35°	842.8	844.8	846.2	844.1	846.2	844.8	842.8	840.1	838.0	833.2	834.6
37.5°	815.5	817.6	819.6	821.9	819.6	817.6	815.5	809.9	804.9	800.7	795.7
40°	794.7	799.5	800.8	804.3	800.8	799.5	794.7	788.5	783.0	778.2	772.7
42.5°	774.9	780.2	783.8	784.5	783.8	780.2	774.9	768.7	760.4	754.5	746.8
45°	744.5	750.0	754.8	754.8	754.8	750.0	744.5	734.2	725.2	716.3	708.8
47.5°	713.0	721.0	725.8	727.0	725.8	721.0	713.0	702.4	689.9	678.9	668.0
50°	691.6	701.2	706.0	709.5	706.0	701.2	691.6	679.8	666.8	653.1	640.0
52.5°	670.6	680.3	686.7	688.5	686.7	680.3	670.6	656.3	640.4	625.6	614.2
55°	634.5	648.2	655.8	658.6	655.8	648.2	634.5	618.7	603.6	585.0	568.5
57.5°	600.4	613.0	621.8	623.9	621.8	613.0	600.4	581.9	562.3	542.5	525.0
60°	574.0	587.7	598.7	600.8	598.7	587.7	574.0	555.4	534.9	515.6	493.6
62.5°	547.1	561.4	571.3	576.6	571.3	561.4	547.1	527.4	505.1	483.7	461.7
65°	500.4	514.9	524.5	526.6	524.5	514.9	500.4	481.2	457.8	435.1	416.6
67.5°	449.6	464.0	470.4	474.3	470.4	464.0	449.6	431.4	408.4	384.9	363.8
70°	413.8	425.5	432.4	435.8	432.4	425.5	413.8	394.6	375.3	351.3	328.6
72.5°	373.2	385.4	393.4	394.0	393.4	385.4	373.2	356.6	336.3	313.9	293.9
75°	310.7	321.8	325.8	325.8	325.8	321.8	310.7	294.9	278.4	260.5	240.6
77.5°	246.0	251.6	256.8	258.0	256.8	251.6	246.0	234.5	220.9	203.1	188.0
80°	204.1	207.6	211.7	211.7	211.7	207.6	204.1	193.9	180.8	165.7	153.9
82.5°	161.3	164.2	168.3	167.7	168.3	164.2	161.3	153.2	142.3	132.2	121.6
85°	97.6	103.8	103.1	101.8	103.1	103.8	97.6	99.0	88.7	81.8	72.2
87.5°	46.2	46.8	48.5	49.6	48.5	46.8	46.2	44.5	39.5	36.7	34.4
90°	11.2	11.4	11.5	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6
92.5°	17.0	17.1	17.2	17.3	17.2	17.1	17.0	16.9	16.7	16.4	16.1
95°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.7	30.4	30.1
97.5°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.1	47.9	47.5
100°	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.2	60.0
102.5°	74.0	74.0	74.1	74.2	74.1	74.0	74.0	74.0	73.8	73.5	73.3
105°	94.5	94.7	95.0	95.2	95.0	94.7	94.5	94.2	93.9	93.7	93.4
107.5°	115.7	115.7	115.6	115.6	115.6	115.7	115.7	115.7	115.6	115.4	115.1
110°	129.5	129.8	130.0	130.3	130.0	129.8	129.5	129.2	129.2	129.4	129.6



TEST NUMBER: P332836-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	145.2	145.2	145.3	145.3	145.3	145.2	145.2	145.1	145.1	145.1	145.2
115°	168.8	168.8	168.7	168.6	168.7	168.8	168.8	168.9	169.0	169.1	169.2
117.5°	191.2	191.1	190.9	190.7	190.9	191.1	191.2	191.4	191.7	191.9	192.3
120°	207.1	207.2	207.4	207.6	207.4	207.2	207.1	206.9	207.0	207.4	207.8
122.5°	222.6	222.2	221.9	221.6	221.9	222.2	222.6	222.8	223.2	223.4	223.8
125°	246.3	246.2	246.0	245.8	246.0	246.2	246.3	246.5	246.7	246.8	247.0
127.5°	268.6	268.5	268.4	268.2	268.4	268.5	268.6	268.7	268.9	269.1	269.2
130°	283.9	283.5	283.2	282.8	283.2	283.5	283.9	284.2	284.5	284.6	284.8
132.5°	298.9	298.8	298.6	298.5	298.6	298.8	298.9	299.0	299.2	299.4	299.5
135°	320.7	320.5	320.2	319.9	320.2	320.5	320.7	321.0	321.2	321.3	321.5
137.5°	342.3	342.3	342.4	342.5	342.4	342.3	342.3	342.2	342.3	342.6	342.8
140°	356.5	356.4	356.3	356.2	356.3	356.4	356.5	356.5	356.6	356.7	356.8
142.5°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.1	370.1	370.1
145°	389.3	389.1	388.8	388.6	388.8	389.1	389.3	389.6	389.8	389.9	389.9
147.5°	407.8	407.7	407.6	407.5	407.6	407.7	407.8	407.9	407.9	407.9	408.0
150°	419.3	419.2	419.1	419.0	419.1	419.2	419.3	419.4	419.4	419.4	419.4
152.5°	430.3	430.1	429.9	429.6	429.9	430.1	430.3	430.5	430.6	430.3	430.2
155°	445.4	445.1	444.7	444.4	444.7	445.1	445.4	445.7	445.7	445.4	445.1
157.5°	458.5	458.1	457.9	457.5	457.9	458.1	458.5	458.7	458.7	458.5	458.2
160°	466.4	466.0	465.5	465.0	465.5	466.0	466.4	466.8	466.9	466.7	466.4
162.5°	474.2	473.7	473.3	472.9	473.3	473.7	474.2	474.6	474.6	474.2	473.6
165°	484.1	483.7	483.4	483.0	483.4	483.7	484.1	484.4	484.3	483.8	483.3
167.5°	491.9	491.4	490.8	490.3	490.8	491.4	491.9	492.4	492.4	491.9	491.4
170°	496.1	495.5	494.9	494.3	494.9	495.5	496.1	496.7	496.8	496.3	495.8
172.5°	499.6	498.9	498.3	497.7	498.3	498.9	499.6	500.2	500.2	499.6	499.0
175°	503.2	502.6	502.0	501.4	502.0	502.6	503.2	503.8	503.8	503.2	502.6
177.5°	504.9	504.4	503.8	503.3	503.8	504.4	504.9	505.4	505.5	505.0	504.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P332836-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1586.3	1588.5	1597.3	1605.6	1615.5	1622.6	1627.5	1633.1	1644.6	1654.0	1662.8
5°	1486.3	1489.7	1507.5	1519.9	1541.2	1559.8	1574.3	1590.0	1608.6	1634.0	1657.4
7.5°	1398.1	1410.9	1430.4	1450.4	1472.2	1496.5	1517.7	1541.5	1573.6	1608.4	1644.5
10°	1348.1	1362.5	1383.1	1406.5	1427.1	1455.3	1481.4	1509.6	1546.0	1588.6	1631.3
12.5°	1298.0	1321.8	1337.5	1365.2	1387.5	1410.7	1438.6	1475.5	1518.0	1562.8	1614.2
15°	1235.3	1248.4	1278.6	1293.7	1325.3	1361.2	1388.6	1425.7	1467.0	1526.1	1583.8
17.5°	1163.0	1180.2	1204.3	1233.1	1269.4	1297.4	1331.5	1369.8	1421.8	1480.5	1552.8
20°	1115.7	1130.1	1159.7	1191.3	1229.9	1259.4	1295.8	1332.9	1386.6	1449.1	1524.7
22.5°	1073.3	1087.3	1118.4	1147.9	1185.3	1221.4	1259.5	1302.7	1354.1	1420.0	1497.2
25°	1007.8	1026.3	1053.9	1084.1	1119.8	1161.1	1202.3	1240.8	1295.8	1365.2	1447.8
27.5°	949.6	964.5	984.4	1018.7	1059.4	1099.2	1140.1	1188.6	1241.4	1314.7	1400.4
30°	912.2	926.0	945.9	977.5	1015.4	1058.0	1100.6	1147.3	1202.3	1275.2	1362.5
32.5°	882.5	892.9	910.7	939.0	973.5	1018.4	1060.4	1108.8	1166.6	1238.4	1323.4
35°	838.7	847.6	854.5	881.3	912.2	953.5	996.1	1047.7	1103.4	1171.4	1256.6
37.5°	795.7	798.7	808.7	826.3	856.3	894.2	933.8	984.6	1041.6	1110.8	1187.6
40°	769.2	770.6	776.8	793.3	819.4	855.1	893.6	943.8	998.2	1063.4	1139.8
42.5°	743.4	742.5	748.2	759.7	784.2	816.7	854.6	900.4	954.7	1015.0	1086.9
45°	702.6	702.6	701.2	710.8	730.7	762.3	794.0	838.0	883.4	942.5	1003.0
47.5°	660.0	656.1	657.3	662.3	679.1	705.1	736.9	772.9	813.0	863.0	916.1
50°	632.4	627.0	624.9	630.3	645.5	668.2	698.4	730.0	767.8	811.8	857.2
52.5°	602.2	596.7	593.0	596.8	610.9	631.9	659.4	687.2	721.1	756.9	796.2
55°	555.4	549.2	547.2	548.5	558.9	575.4	598.7	624.2	649.6	679.2	706.7
57.5°	509.4	499.2	497.3	496.6	503.8	518.8	538.4	560.4	578.9	596.8	626.1
60°	479.1	466.7	462.6	461.9	467.4	479.8	497.7	519.7	532.8	545.1	570.6
62.5°	446.7	434.9	425.8	426.8	431.7	443.5	459.2	475.2	483.8	497.3	514.4
65°	396.7	381.5	374.6	372.6	375.3	385.0	397.4	407.7	417.2	422.8	439.3
67.5°	346.6	334.0	323.8	321.3	320.0	326.7	336.8	343.0	349.9	354.7	364.5
70°	311.4	300.4	288.0	283.9	283.2	288.7	298.3	299.0	308.7	310.7	321.1
72.5°	276.7	263.0	254.5	250.4	247.5	252.4	258.7	260.5	265.8	269.5	274.8
75°	222.7	212.4	204.1	197.9	195.9	198.6	198.6	202.1	205.5	207.6	213.8
77.5°	175.3	163.5	153.7	150.2	147.7	145.9	147.4	149.5	147.8	151.4	152.7
80°	142.3	129.9	122.3	121.0	116.8	113.4	112.7	114.8	112.0	113.4	117.5
82.5°	109.9	101.9	93.8	92.4	87.1	85.4	84.7	83.4	83.4	83.2	84.0
85°	65.3	60.5	55.0	51.6	49.5	46.1	46.1	44.7	43.3	41.9	42.6
87.5°	28.2	27.0	24.1	22.3	21.1	18.8	18.6	16.8	16.0	15.2	14.6
90°	9.1	8.6	7.9	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2
92.5°	15.8	15.4	15.0	14.5	14.0	13.5	12.7	11.6	10.5	9.5	8.4
95°	29.9	29.6	29.0	28.4	27.8	27.2	26.5	25.7	25.0	24.2	23.4
97.5°	47.2	46.9	46.1	45.5	44.8	44.1	43.4	42.8	42.1	41.5	40.9
100°	59.8	59.7	58.9	58.1	57.3	56.6	56.1	55.6	55.3	54.9	54.6
102.5°	73.0	72.8	72.1	71.4	70.7	70.0	69.6	69.4	69.2	69.1	69.0
105°	93.1	92.8	92.5	92.1	91.8	91.4	91.3	91.2	91.1	91.0	90.9
107.5°	114.9	114.6	114.6	114.5	114.5	114.4	114.3	114.3	114.2	114.0	113.9
110°	129.8	129.9	130.0	130.1	130.2	130.3	130.2	130.0	129.8	129.7	129.5



TEST NUMBER: P332836-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	145.2	145.3	145.3	145.5	145.7	145.9	145.9	145.9	145.9	145.8	145.8
115°	169.3	169.4	169.5	169.7	169.9	170.0	170.1	170.1	170.1	170.1	170.1
117.5°	192.5	192.8	193.0	193.0	193.2	193.3	193.3	193.3	193.2	193.1	193.0
120°	208.3	208.7	209.0	209.2	209.5	209.7	209.7	209.4	209.1	208.7	208.4
122.5°	224.0	224.4	224.5	224.5	224.7	224.8	224.8	224.6	224.5	224.4	224.3
125°	247.2	247.4	247.5	247.5	247.6	247.7	247.7	247.7	247.7	247.7	247.7
127.5°	269.4	269.6	269.8	269.8	270.0	270.2	270.1	269.8	269.6	269.3	269.1
130°	285.0	285.2	285.2	285.2	285.2	285.2	285.1	284.8	284.6	284.3	284.0
132.5°	299.7	299.9	300.0	300.0	300.1	300.1	300.1	299.9	299.7	299.5	299.3
135°	321.7	321.8	321.8	321.8	321.8	321.8	321.6	321.1	320.6	320.0	319.5
137.5°	343.0	343.3	343.1	343.0	342.9	342.7	342.5	342.2	342.0	341.8	341.6
140°	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.7	356.5	356.4	356.2
142.5°	370.1	370.1	370.1	370.2	370.3	370.4	370.3	370.1	370.0	369.8	369.6
145°	390.0	390.1	390.0	389.9	389.9	389.8	389.6	389.3	388.9	388.6	388.2
147.5°	408.1	408.2	408.3	408.3	408.4	408.5	408.3	407.9	407.4	407.0	406.7
150°	419.4	419.4	419.4	419.4	419.4	419.4	419.2	418.9	418.5	418.2	417.8
152.5°	429.9	429.7	429.6	429.6	429.5	429.5	429.3	429.1	428.9	428.7	428.4
155°	444.7	444.4	444.4	444.5	444.6	444.7	444.8	444.8	444.8	444.8	444.8
157.5°	458.0	457.7	457.7	457.8	457.8	457.8	457.9	458.1	458.2	458.3	458.5
160°	466.1	465.9	466.0	466.1	466.1	466.2	466.3	466.4	466.5	466.6	466.7
162.5°	473.2	472.7	472.8	472.9	472.9	473.0	473.2	473.5	473.6	473.9	474.2
165°	482.8	482.2	482.4	482.6	482.8	482.9	483.1	483.4	483.6	483.9	484.1
167.5°	490.9	490.3	490.3	490.3	490.3	490.3	490.4	490.9	491.2	491.5	491.9
170°	495.2	494.7	494.6	494.6	494.5	494.4	494.6	495.0	495.4	495.8	496.3
172.5°	498.4	497.8	497.8	497.8	497.7	497.7	497.9	498.3	498.7	499.0	499.4
175°	502.0	501.4	501.4	501.5	501.6	501.7	502.0	502.4	502.8	503.3	503.7
177.5°	504.0	503.5	503.5	503.5	503.5	503.5	503.7	504.0	504.4	504.7	505.1
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P332836-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1670.4	1675.9	1683.1	1695.2	1699.6	1705.1	1712.8	1712.3	1714.4	1722.7	1740.3
5°	1676.6	1698.0	1718.6	1743.4	1769.4	1786.7	1810.0	1824.5	1838.9	1857.4	1889.0
7.5°	1679.1	1713.0	1750.8	1794.2	1832.8	1877.4	1912.2	1944.9	1974.4	2013.6	2051.3
10°	1675.2	1720.6	1769.4	1824.5	1882.8	1932.3	1977.0	2027.9	2071.2	2118.7	2161.3
12.5°	1668.1	1722.9	1788.1	1849.8	1918.0	1991.2	2046.9	2098.3	2155.9	2210.5	2276.2
15°	1651.9	1726.8	1803.1	1884.2	1975.7	2060.2	2140.7	2207.3	2269.3	2351.0	2437.0
17.5°	1631.3	1712.1	1808.4	1906.5	2002.1	2098.8	2198.3	2298.5	2376.6	2478.2	2545.5
20°	1612.1	1705.6	1804.5	1921.4	2016.9	2137.3	2236.2	2333.1	2440.4	2541.4	2621.8
22.5°	1585.1	1687.4	1792.4	1908.8	2034.5	2154.8	2269.3	2374.4	2481.7	2591.5	2689.0
25°	1550.8	1643.6	1768.1	1900.1	2025.2	2155.8	2287.1	2419.1	2534.5	2650.8	2741.5
27.5°	1492.5	1609.7	1725.6	1861.8	2000.9	2148.6	2289.1	2427.2	2548.2	2643.7	2699.9
30°	1462.8	1564.6	1690.4	1827.2	1977.7	2136.6	2282.9	2418.4	2531.2	2607.5	2630.1
32.5°	1418.8	1523.9	1646.9	1788.7	1948.0	2111.3	2263.7	2391.4	2485.4	2525.5	2498.1
35°	1353.6	1448.5	1572.9	1717.9	1883.5	2057.4	2208.0	2315.9	2364.0	2326.2	2232.1
37.5°	1275.2	1369.2	1494.2	1636.7	1808.1	1984.9	2121.0	2198.6	2182.7	2088.7	1948.4
40°	1220.2	1308.2	1427.1	1581.1	1748.2	1925.5	2045.1	2087.1	2043.1	1908.3	1759.1
42.5°	1159.2	1244.9	1364.4	1512.9	1689.9	1853.5	1957.7	1961.1	1887.4	1726.3	1576.6
45°	1066.2	1148.0	1260.8	1415.4	1579.1	1733.0	1801.7	1768.1	1631.9	1476.6	1326.0
47.5°	974.5	1045.4	1156.5	1303.4	1458.7	1588.4	1622.5	1561.9	1416.8	1266.0	1126.4
50°	907.4	978.9	1083.4	1223.7	1373.5	1485.6	1502.0	1421.6	1279.3	1127.4	1018.0
52.5°	843.1	914.0	1014.7	1144.4	1281.7	1382.7	1383.3	1290.2	1148.4	1013.0	911.4
55°	748.6	812.5	903.3	1019.4	1141.9	1220.9	1201.6	1105.4	982.3	864.8	776.1
57.5°	657.6	713.3	796.9	893.8	1001.6	1066.8	1034.8	942.2	832.3	732.6	665.5
60°	598.7	651.7	723.2	814.6	905.3	956.2	926.0	842.1	741.1	660.6	602.2
62.5°	541.6	586.3	655.0	734.3	818.5	856.1	829.1	746.4	659.1	586.3	539.0
65°	460.5	497.1	552.0	620.1	681.2	713.6	690.9	613.9	547.2	495.0	457.1
67.5°	385.0	413.5	455.0	509.6	561.6	579.1	558.4	504.9	448.3	406.6	379.9
70°	332.7	359.6	394.6	436.5	481.9	500.4	479.8	437.2	391.2	352.7	326.5
72.5°	287.1	307.8	337.4	373.2	408.7	427.3	413.3	372.3	333.4	304.8	282.5
75°	218.6	236.5	257.1	282.5	310.0	322.4	310.0	281.8	255.0	233.8	217.9
77.5°	158.9	168.6	184.5	203.5	220.7	230.1	219.5	200.4	184.0	169.4	161.5
80°	121.0	127.9	138.9	153.9	165.7	174.6	167.7	151.9	138.9	129.2	125.8
82.5°	88.0	92.6	99.8	111.1	118.9	123.5	120.5	109.0	103.7	95.1	91.7
85°	43.3	46.1	50.9	54.3	61.2	61.9	62.6	57.8	53.0	50.9	48.1
87.5°	15.2	16.0	17.8	19.7	22.0	22.7	22.3	22.5	20.4	20.0	17.9
90°	2.2	3.1	4.0	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6
92.5°	9.5	10.5	11.6	12.7	13.5	14.0	14.5	15.0	15.4	15.8	16.1
95°	24.2	25.0	25.7	26.5	27.2	27.8	28.4	29.0	29.6	29.9	30.1
97.5°	41.5	42.1	42.8	43.4	44.1	44.8	45.5	46.1	46.9	47.2	47.5
100°	54.9	55.3	55.6	56.1	56.6	57.3	58.1	58.9	59.7	59.8	60.0
102.5°	69.1	69.2	69.4	69.6	70.0	70.7	71.4	72.1	72.8	73.0	73.3
105°	91.0	91.1	91.2	91.3	91.4	91.8	92.1	92.5	92.8	93.1	93.4
107.5°	114.0	114.2	114.3	114.3	114.4	114.5	114.5	114.6	114.6	114.9	115.1
110°	129.7	129.8	130.0	130.2	130.3	130.2	130.1	130.0	129.9	129.8	129.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	145.8	145.9	145.9	145.9	145.9	145.7	145.5	145.3	145.3	145.2	145.2
115°	170.1	170.1	170.1	170.1	170.0	169.9	169.7	169.5	169.4	169.3	169.2
117.5°	193.1	193.2	193.3	193.3	193.3	193.2	193.0	193.0	192.8	192.5	192.3
120°	208.7	209.1	209.4	209.7	209.7	209.5	209.2	209.0	208.7	208.3	207.8
122.5°	224.4	224.5	224.6	224.8	224.8	224.7	224.5	224.5	224.4	224.0	223.8
125°	247.7	247.7	247.7	247.7	247.7	247.6	247.5	247.5	247.4	247.2	247.0
127.5°	269.3	269.6	269.8	270.1	270.2	270.0	269.8	269.8	269.6	269.4	269.2
130°	284.3	284.6	284.8	285.1	285.2	285.2	285.2	285.2	285.2	285.0	284.8
132.5°	299.5	299.7	299.9	300.1	300.1	300.1	300.0	300.0	299.9	299.7	299.5
135°	320.0	320.6	321.1	321.6	321.8	321.8	321.8	321.8	321.8	321.7	321.5
137.5°	341.8	342.0	342.2	342.5	342.7	342.9	343.0	343.1	343.3	343.0	342.8
140°	356.4	356.5	356.7	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.8
142.5°	369.8	370.0	370.1	370.3	370.4	370.3	370.2	370.1	370.1	370.1	370.1
145°	388.6	388.9	389.3	389.6	389.8	389.9	389.9	390.0	390.1	390.0	389.9
147.5°	407.0	407.4	407.9	408.3	408.5	408.4	408.3	408.3	408.2	408.1	408.0
150°	418.2	418.5	418.9	419.2	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	428.7	428.9	429.1	429.3	429.5	429.5	429.6	429.6	429.7	429.9	430.2
155°	444.8	444.8	444.8	444.8	444.7	444.6	444.5	444.4	444.4	444.7	445.1
157.5°	458.3	458.2	458.1	457.9	457.8	457.8	457.8	457.7	457.7	458.0	458.2
160°	466.6	466.5	466.4	466.3	466.2	466.1	466.1	466.0	465.9	466.1	466.4
162.5°	473.9	473.6	473.5	473.2	473.0	472.9	472.9	472.8	472.7	473.2	473.6
165°	483.9	483.6	483.4	483.1	482.9	482.8	482.6	482.4	482.2	482.8	483.3
167.5°	491.5	491.2	490.9	490.4	490.3	490.3	490.3	490.3	490.3	490.9	491.4
170°	495.8	495.4	495.0	494.6	494.4	494.5	494.6	494.6	494.7	495.2	495.8
172.5°	499.0	498.7	498.3	497.9	497.7	497.7	497.8	497.8	497.8	498.4	499.0
175°	503.3	502.8	502.4	502.0	501.7	501.6	501.5	501.4	501.4	502.0	502.6
177.5°	504.7	504.4	504.0	503.7	503.5	503.5	503.5	503.5	503.5	504.0	504.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1749.1	1750.2	1755.1	1759.0	1760.1	1765.6	1766.2
5°	1902.8	1914.5	1937.2	1939.2	1942.7	1960.6	1946.8
7.5°	2082.9	2112.6	2132.4	2149.9	2156.2	2164.0	2162.4
10°	2198.4	2242.4	2264.4	2299.5	2300.9	2309.8	2304.3
12.5°	2314.5	2365.6	2405.7	2412.2	2441.6	2446.2	2453.8
15°	2478.9	2533.1	2588.9	2608.8	2649.4	2659.0	2674.1
17.5°	2633.5	2689.0	2728.0	2779.6	2796.2	2818.5	2803.3
20°	2718.1	2778.6	2828.1	2868.7	2885.8	2898.2	2896.8
22.5°	2769.2	2830.3	2870.4	2901.1	2917.2	2922.4	2922.1
25°	2801.3	2836.3	2848.7	2860.4	2842.5	2836.3	2839.1
27.5°	2712.2	2703.1	2670.8	2628.5	2584.5	2549.5	2530.6
30°	2589.5	2535.9	2487.2	2401.8	2357.9	2331.8	2308.4
32.5°	2415.8	2330.8	2236.9	2158.8	2108.8	2070.0	2064.2
35°	2118.0	1990.1	1875.3	1779.8	1730.3	1688.3	1678.7
37.5°	1800.7	1667.8	1564.4	1480.3	1427.1	1397.6	1369.9
40°	1590.0	1475.9	1374.2	1302.7	1262.1	1240.8	1223.7
42.5°	1427.8	1323.6	1222.4	1167.9	1131.3	1118.2	1108.1
45°	1203.7	1106.7	1036.6	995.4	974.0	952.1	941.8
47.5°	1024.2	945.4	899.1	864.1	841.3	828.2	821.7
50°	922.6	857.9	816.7	789.9	769.2	758.9	753.5
52.5°	832.3	779.3	744.6	723.3	709.3	701.7	699.6
55°	717.0	676.4	654.4	635.8	625.6	618.7	616.0
57.5°	623.2	592.0	574.1	558.9	554.9	549.1	547.2
60°	561.6	537.6	522.5	512.1	508.7	501.8	503.2
62.5°	507.2	487.5	474.6	468.7	464.2	458.4	460.3
65°	429.0	414.5	407.7	402.2	396.7	393.2	396.0
67.5°	359.9	350.1	340.7	337.5	334.8	334.2	331.3
70°	314.9	306.6	298.3	296.3	296.3	293.5	292.8
72.5°	271.4	265.4	259.8	258.3	256.1	257.3	254.3
75°	209.7	204.8	202.8	200.7	200.0	200.0	197.9
77.5°	155.0	151.4	148.1	148.1	145.6	144.6	144.4
80°	117.5	116.1	113.4	113.4	112.0	112.7	111.3
82.5°	88.4	86.4	85.9	84.8	82.9	83.0	81.7
85°	47.4	45.4	44.7	42.6	41.2	42.6	41.2
87.5°	18.5	18.1	17.6	16.5	16.0	16.0	14.5
90°	10.2	10.7	11.0	11.2	11.4	11.5	11.7
92.5°	16.4	16.7	16.9	17.0	17.1	17.2	17.3
95°	30.4	30.7	30.8	30.8	30.8	30.8	30.8
97.5°	47.9	48.1	48.3	48.3	48.3	48.3	48.3
100°	60.2	60.4	60.4	60.4	60.4	60.4	60.4
102.5°	73.5	73.8	74.0	74.0	74.0	74.1	74.2
105°	93.7	93.9	94.2	94.5	94.7	95.0	95.2
107.5°	115.4	115.6	115.7	115.7	115.7	115.6	115.6
110°	129.4	129.2	129.2	129.5	129.8	130.0	130.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	145.1	145.1	145.1	145.2	145.2	145.3	145.3
115°	169.1	169.0	168.9	168.8	168.8	168.7	168.6
117.5°	191.9	191.7	191.4	191.2	191.1	190.9	190.7
120°	207.4	207.0	206.9	207.1	207.2	207.4	207.6
122.5°	223.4	223.2	222.8	222.6	222.2	221.9	221.6
125°	246.8	246.7	246.5	246.3	246.2	246.0	245.8
127.5°	269.1	268.9	268.7	268.6	268.5	268.4	268.2
130°	284.6	284.5	284.2	283.9	283.5	283.2	282.8
132.5°	299.4	299.2	299.0	298.9	298.8	298.6	298.5
135°	321.3	321.2	321.0	320.7	320.5	320.2	319.9
137.5°	342.6	342.3	342.2	342.3	342.3	342.4	342.5
140°	356.7	356.6	356.5	356.5	356.4	356.3	356.2
142.5°	370.1	370.1	370.0	370.0	370.0	370.0	370.0
145°	389.9	389.8	389.6	389.3	389.1	388.8	388.6
147.5°	407.9	407.9	407.9	407.8	407.7	407.6	407.5
150°	419.4	419.4	419.4	419.3	419.2	419.1	419.0
152.5°	430.3	430.6	430.5	430.3	430.1	429.9	429.6
155°	445.4	445.7	445.7	445.4	445.1	444.7	444.4
157.5°	458.5	458.7	458.7	458.5	458.1	457.9	457.5
160°	466.7	466.9	466.8	466.4	466.0	465.5	465.0
162.5°	474.2	474.6	474.6	474.2	473.7	473.3	472.9
165°	483.8	484.3	484.4	484.1	483.7	483.4	483.0
167.5°	491.9	492.4	492.4	491.9	491.4	490.8	490.3
170°	496.3	496.8	496.7	496.1	495.5	494.9	494.3
172.5°	499.6	500.2	500.2	499.6	498.9	498.3	497.7
175°	503.2	503.8	503.8	503.2	502.6	502.0	501.4
177.5°	505.0	505.5	505.4	504.9	504.4	503.8	503.3
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5

(END OF REPORT)