

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

Luminaire Tested: **S124DIW-S1195D470U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332836  
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-S1195D470U835-4F0-1E-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: 6945.0 lumens  
Efficiency: N/A  
Efficacy: 132.5 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

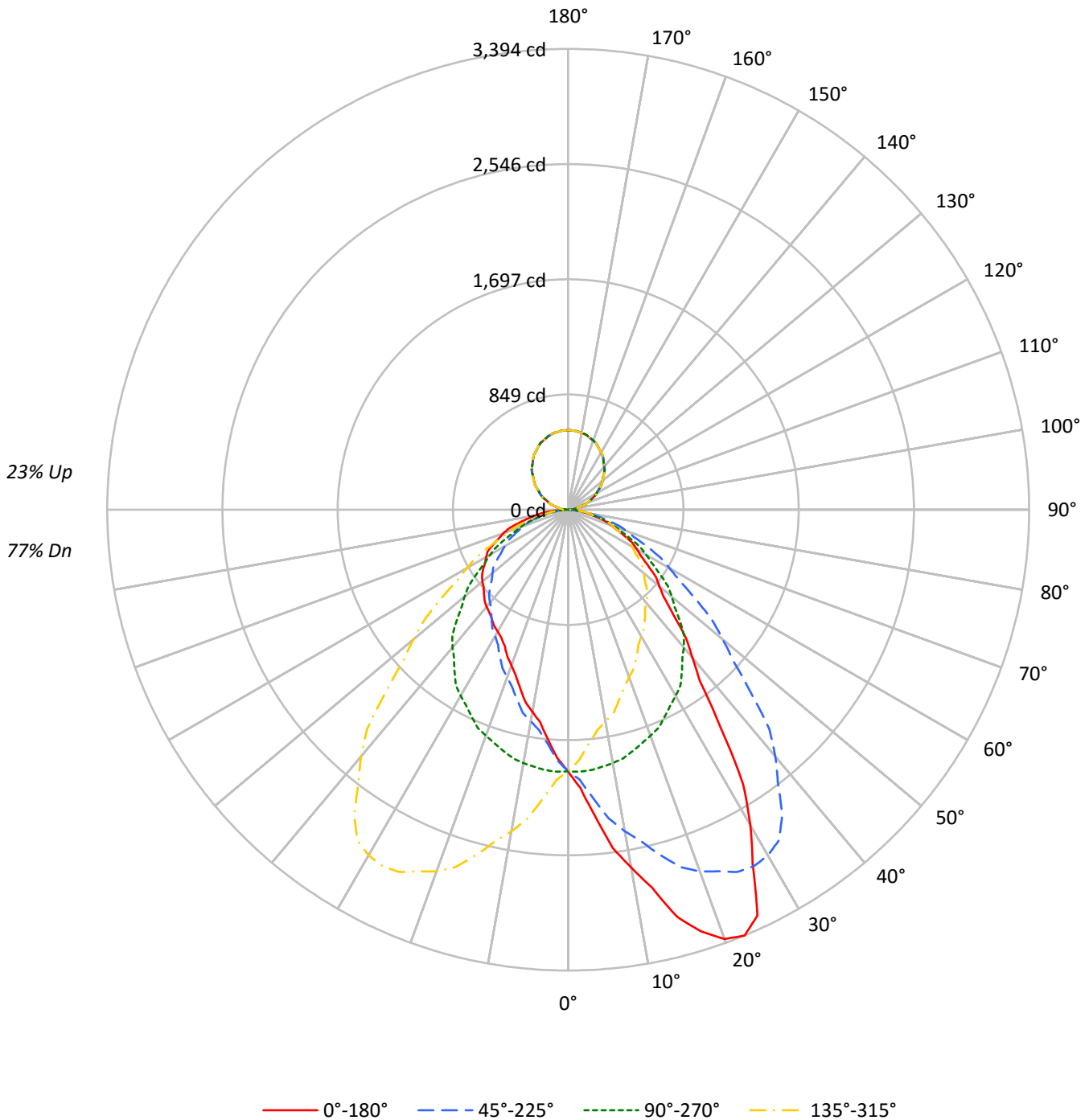
Input Watts (W): 52.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°	270°
0°	15560	15560	15560	15560
5°	18323	15600	13768	15600
10°	21939	15531	12396	15531
15°	25957	15374	11384	15374
20°	28905	15214	10481	15214
25°	29372	14978	9857	14978
30°	24993	14752	9660	14752
35°	19215	14384	9662	14384
40°	14977	13951	9844	13951
45°	12488	13300	10009	13300
50°	10991	12504	10349	12504
55°	10069	11553	10766	11553
60°	9436	10700	11267	10700
65°	8785	9746	11683	9746
70°	8028	8802	11948	8802
75°	7171	7745	11803	7745
80°	6011	6346	11432	6346
85°	4437	4585	10948	4585



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.8	2.7
10°-20°	578.8	8.3
20°-30°	917.8	13.2
30°-40°	1021.3	14.7
40°-50°	929.7	13.4
50°-60°	759.7	10.9
60°-70°	542.4	7.8
70°-80°	298.7	4.3
80°-90°	83.3	1.2
90°-100°	38.6	0.6
100°-110°	114.5	1.6
110°-120°	194.3	2.8
120°-130°	256.2	3.7
130°-140°	287.7	4.1
140°-150°	282.7	4.1
150°-160°	237.8	3.4
160°-170°	158.2	2.3
170°-180°	55.4	0.8
0°-30°	1684.3	24.3
0°-40°	2705.6	39.0
0°-60°	4395.1	63.3
0°-90°	5319.4	76.6
90°-120°	347.4	5.0
90°-150°	1174.1	16.9
90°-180°	1626.0	23.4
0°-180°	6945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1927	1927	1927	1927	1927	
5°	2261	1925	1699	1925	2261	230
15°	3106	1840	1362	1840	3106	878
25°	3297	1682	1107	1682	3297	1454
35°	1950	1460	980	1460	1950	1238
45°	1094	1165	877	1165	1094	862
55°	715	821	765	821	715	646
65°	460	510	612	510	460	455
75°	230	248	378	248	230	244
85°	48	50	118	50	48	59
90°	14	1	14	1	14	9
95°	36	27	36	27	36	37
105°	111	106	111	106	111	117
115°	196	198	196	198	196	193
125°	286	288	286	288	286	255
135°	372	371	372	371	372	287
145°	451	451	451	451	451	282
155°	516	517	516	517	516	238
165°	561	562	561	562	561	158
175°	582	585	582	585	582	55
180°	586	586	586	586	586	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2051.3	2050.6	2044.3	2043.0	2038.5	2032.8	2031.5	2021.3	2000.8	1991.2	1988.7
5°	2261.1	2277.1	2256.3	2252.3	2249.9	2223.6	2210.0	2194.0	2157.3	2135.8	2119.0
7.5°	2511.5	2513.4	2504.3	2497.0	2476.7	2453.7	2419.2	2382.5	2338.7	2293.2	2258.9
10°	2676.3	2682.7	2672.3	2670.7	2630.0	2604.4	2553.3	2510.2	2460.7	2405.6	2355.3
12.5°	2850.0	2841.1	2835.8	2801.6	2794.1	2747.5	2688.1	2643.7	2567.4	2504.0	2437.1
15°	3105.8	3088.3	3077.1	3030.0	3006.8	2942.1	2879.1	2830.4	2730.6	2635.6	2563.7
17.5°	3255.9	3273.5	3247.6	3228.3	3168.4	3123.1	3058.6	2956.4	2878.3	2760.3	2669.6
20°	3364.5	3366.1	3351.7	3331.8	3284.7	3227.2	3156.9	3045.1	2951.7	2834.4	2709.8
22.5°	3393.9	3394.2	3388.1	3369.5	3333.8	3287.2	3216.3	3123.1	3009.9	2882.3	2757.7
25°	3297.4	3294.2	3301.4	3322.2	3308.6	3294.2	3253.5	3184.1	3078.7	2943.7	2809.6
27.5°	2939.1	2961.1	3001.7	3052.8	3102.0	3139.5	3150.1	3135.8	3070.5	2959.6	2819.0
30°	2681.1	2708.2	2738.6	2789.6	2888.7	2945.3	3007.6	3054.7	3028.4	2939.8	2808.8
32.5°	2397.5	2404.2	2449.2	2507.3	2598.0	2707.1	2805.8	2901.4	2933.2	2886.7	2777.5
35°	1949.7	1960.9	2009.6	2067.1	2178.1	2311.4	2459.9	2592.4	2701.8	2745.7	2689.8
37.5°	1591.1	1623.2	1657.5	1719.3	1817.0	1937.1	2091.4	2262.9	2425.9	2535.1	2553.6
40°	1421.2	1441.1	1465.9	1513.0	1596.0	1714.2	1846.7	2043.1	2216.4	2372.9	2424.0
42.5°	1287.0	1298.7	1313.9	1356.5	1419.7	1537.3	1658.3	1831.1	2005.0	2192.1	2277.7
45°	1093.8	1105.8	1131.3	1156.1	1204.0	1285.4	1398.0	1540.1	1715.0	1895.4	2053.5
47.5°	954.3	961.9	977.1	1003.6	1044.3	1098.0	1189.6	1308.3	1470.4	1645.5	1814.0
50°	875.1	881.4	893.4	917.4	948.5	996.4	1071.5	1182.4	1309.4	1485.8	1651.1
52.5°	812.5	815.0	823.8	840.1	864.8	905.1	966.7	1058.5	1176.5	1333.8	1498.5
55°	715.4	718.6	726.6	738.5	760.1	785.6	832.7	901.4	1004.4	1140.9	1283.8
57.5°	635.5	637.8	644.5	649.1	666.8	687.6	723.8	772.9	850.9	966.7	1094.3
60°	584.4	582.8	590.8	594.8	606.8	624.4	652.3	699.4	767.3	860.7	978.1
62.5°	534.6	532.4	539.1	544.4	551.2	566.2	589.1	626.0	681.0	765.5	866.9
65°	459.9	456.7	460.7	467.1	473.5	481.4	498.2	530.9	574.9	635.5	713.0
67.5°	384.8	388.2	388.8	392.0	395.7	406.6	418.0	441.2	472.2	520.7	586.4
70°	340.1	340.9	344.1	344.1	346.5	356.1	365.7	379.2	409.6	454.3	507.8
72.5°	295.4	298.8	297.5	300.0	301.8	308.2	315.2	328.1	354.0	387.2	432.4
75°	229.9	232.3	232.3	233.1	235.5	237.9	243.5	253.1	271.5	296.2	327.3
77.5°	167.7	168.0	169.1	172.0	172.0	175.8	180.0	187.6	196.7	213.7	232.7
80°	129.3	130.9	130.1	131.7	131.7	134.9	136.5	146.1	150.1	161.3	176.4
82.5°	94.9	96.4	96.3	98.5	99.8	100.4	102.7	106.5	110.5	120.4	126.6
85°	47.9	49.5	47.9	49.5	51.9	52.7	55.1	55.9	59.1	61.5	67.1
87.5°	16.8	18.6	18.6	19.2	20.4	21.0	21.5	20.8	23.2	23.7	26.1
90°	13.6	13.4	13.2	13.0	12.8	12.4	11.8	11.2	10.6	10.0	9.2
92.5°	20.1	20.0	19.9	19.8	19.6	19.4	19.0	18.7	18.3	17.9	17.4
95°	35.8	35.8	35.8	35.8	35.8	35.6	35.3	35.0	34.7	34.4	33.7
97.5°	56.1	56.1	56.1	56.1	56.1	55.9	55.6	55.2	54.8	54.5	53.6
100°	70.2	70.2	70.2	70.2	70.2	70.1	69.9	69.7	69.5	69.3	68.4
102.5°	86.2	86.1	86.0	85.9	85.9	85.7	85.4	85.1	84.8	84.6	83.7
105°	110.6	110.3	110.0	109.7	109.4	109.1	108.8	108.5	108.1	107.8	107.4
107.5°	134.3	134.3	134.4	134.4	134.4	134.3	134.0	133.7	133.4	133.1	133.1
110°	151.3	151.0	150.7	150.4	150.1	150.1	150.3	150.5	150.7	150.9	151.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.7	168.7	168.6	168.6	168.5	168.5	168.5	168.6	168.6	168.7	168.8
115°	195.8	195.9	196.0	196.1	196.2	196.3	196.4	196.5	196.6	196.7	196.9
117.5°	221.5	221.7	221.9	222.1	222.3	222.6	222.9	223.3	223.6	223.9	224.1
120°	241.1	240.9	240.7	240.5	240.3	240.4	240.9	241.4	241.9	242.4	242.7
122.5°	257.4	257.7	258.1	258.5	258.8	259.2	259.5	259.9	260.2	260.6	260.7
125°	285.5	285.7	285.9	286.1	286.3	286.5	286.7	286.9	287.1	287.3	287.4
127.5°	311.5	311.7	311.8	312.0	312.1	312.3	312.5	312.7	312.9	313.1	313.3
130°	328.5	328.9	329.3	329.7	330.1	330.4	330.6	330.8	331.0	331.2	331.2
132.5°	346.7	346.8	347.0	347.1	347.3	347.5	347.7	347.9	348.1	348.3	348.4
135°	371.6	371.9	372.2	372.5	372.8	373.0	373.2	373.4	373.6	373.8	373.8
137.5°	397.8	397.7	397.6	397.6	397.5	397.6	397.9	398.1	398.4	398.7	398.5
140°	413.7	413.8	413.9	414.0	414.1	414.2	414.3	414.4	414.5	414.6	414.6
142.5°	429.7	429.7	429.7	429.7	429.7	429.8	429.8	429.8	429.8	429.8	429.9
145°	451.3	451.6	451.9	452.2	452.5	452.7	452.8	452.9	453.0	453.1	453.0
147.5°	473.3	473.4	473.5	473.6	473.7	473.8	473.8	473.9	474.0	474.1	474.2
150°	486.7	486.8	486.9	487.0	487.1	487.1	487.1	487.1	487.1	487.1	487.1
152.5°	499.0	499.3	499.5	499.8	500.0	500.1	499.8	499.6	499.3	499.1	499.0
155°	516.1	516.5	516.9	517.3	517.7	517.7	517.3	516.9	516.5	516.1	516.2
157.5°	531.4	531.8	532.1	532.5	532.8	532.8	532.5	532.2	531.9	531.6	531.6
160°	540.1	540.6	541.2	541.7	542.2	542.3	542.0	541.7	541.4	541.1	541.2
162.5°	549.2	549.7	550.2	550.7	551.2	551.2	550.7	550.1	549.6	549.0	549.1
165°	561.0	561.4	561.8	562.2	562.6	562.5	561.9	561.3	560.7	560.1	560.3
167.5°	569.4	570.0	570.7	571.3	571.9	571.9	571.3	570.7	570.1	569.5	569.5
170°	574.1	574.8	575.5	576.2	576.9	577.0	576.4	575.8	575.2	574.6	574.5
172.5°	578.1	578.8	579.5	580.2	580.9	580.9	580.3	579.6	578.9	578.2	578.2
175°	582.3	583.0	583.7	584.4	585.1	585.1	584.4	583.7	583.0	582.3	582.4
177.5°	584.5	585.1	585.8	586.4	587.0	587.1	586.5	586.0	585.4	584.8	584.8
180°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1989.3	1980.4	1974.0	1968.9	1954.8	1946.5	1940.1	1931.2	1921.0	1910.1	1896.7
5°	2102.2	2075.1	2055.1	2024.8	1996.0	1972.1	1947.3	1925.0	1897.8	1868.3	1846.7
7.5°	2220.9	2180.5	2128.7	2083.9	2033.4	1989.5	1950.2	1910.0	1868.1	1827.6	1790.4
10°	2296.2	2244.3	2186.8	2119.0	2055.1	1998.4	1945.7	1894.6	1845.1	1795.6	1753.3
12.5°	2377.4	2312.7	2227.7	2148.4	2076.8	2001.0	1937.4	1874.8	1815.1	1763.1	1713.7
15°	2486.3	2392.8	2294.6	2188.4	2094.2	2005.6	1918.6	1839.5	1772.5	1703.8	1655.9
17.5°	2553.2	2437.6	2325.3	2214.3	2100.3	1988.5	1894.6	1803.5	1719.5	1651.3	1590.9
20°	2597.2	2482.3	2342.5	2231.6	2095.8	1980.9	1872.3	1770.9	1683.1	1610.4	1548.1
22.5°	2635.6	2502.7	2363.0	2216.9	2081.8	1959.8	1841.0	1738.9	1649.2	1572.7	1513.0
25°	2656.3	2503.8	2352.1	2206.8	2053.5	1909.0	1801.2	1681.5	1585.6	1505.0	1441.1
27.5°	2658.6	2495.5	2323.9	2162.4	2004.2	1869.6	1733.5	1626.5	1527.0	1441.8	1380.5
30°	2651.5	2481.5	2297.0	2122.2	1963.3	1817.2	1699.0	1582.5	1481.1	1396.4	1332.5
32.5°	2629.2	2452.1	2262.5	2077.5	1912.8	1769.9	1647.9	1537.1	1438.3	1354.9	1287.8
35°	2564.5	2389.6	2187.6	1995.2	1826.8	1682.3	1572.1	1459.5	1360.5	1281.5	1216.8
37.5°	2463.4	2305.3	2100.0	1900.9	1735.4	1590.3	1481.1	1379.3	1290.1	1209.8	1143.5
40°	2375.3	2236.4	2030.4	1836.3	1657.5	1519.4	1417.2	1323.8	1235.1	1159.3	1096.2
42.5°	2273.7	2152.7	1962.7	1757.1	1584.7	1445.9	1346.3	1262.4	1178.9	1108.8	1045.8
45°	2092.6	2012.8	1834.0	1643.9	1464.3	1333.3	1238.3	1164.9	1094.6	1026.0	973.3
47.5°	1884.4	1844.8	1694.2	1513.8	1343.2	1214.2	1131.8	1064.0	1002.3	944.2	897.7
50°	1744.5	1725.4	1595.2	1421.2	1258.3	1136.9	1053.9	995.6	942.9	891.8	847.9
52.5°	1606.6	1605.9	1488.6	1329.2	1178.5	1061.6	979.2	924.7	879.1	837.5	798.1
55°	1395.6	1418.0	1326.2	1184.0	1049.1	943.7	869.5	820.8	788.8	754.5	725.0
57.5°	1201.9	1239.0	1163.3	1038.1	925.5	828.4	763.8	727.2	693.2	672.4	650.9
60°	1075.5	1110.6	1051.5	946.1	839.9	756.9	695.4	662.7	633.1	618.8	603.6
62.5°	963.0	994.3	950.6	852.9	760.7	680.9	629.0	597.5	577.6	561.9	551.9
65°	802.4	828.8	791.2	720.2	641.1	577.3	534.9	510.2	491.0	484.6	473.5
67.5°	648.6	672.6	652.3	591.9	528.5	480.2	447.1	423.3	412.0	406.4	398.4
70°	557.3	581.2	559.7	507.0	458.3	417.6	386.4	372.9	360.9	358.5	347.3
72.5°	480.0	496.3	474.7	433.5	391.9	357.5	333.4	319.2	313.0	308.7	302.6
75°	360.1	374.5	360.1	328.1	298.6	274.7	253.9	248.3	241.1	238.7	234.7
77.5°	254.9	267.3	256.3	236.3	214.3	195.8	184.6	177.4	175.8	171.7	173.6
80°	194.8	202.8	192.4	178.8	161.3	148.5	140.5	136.5	131.7	130.1	133.3
82.5°	139.9	143.4	138.1	129.0	115.9	107.6	102.2	97.6	96.6	96.9	96.9
85°	72.7	71.9	71.1	63.1	59.1	53.5	50.3	49.5	48.7	50.3	51.9
87.5°	25.9	26.4	25.6	22.9	20.7	18.6	17.7	16.9	17.7	18.6	19.5
90°	8.4	7.6	6.7	5.8	4.7	3.6	2.5	1.4	2.5	3.6	4.7
92.5°	16.8	16.3	15.7	14.8	13.5	12.2	11.0	9.7	11.0	12.2	13.5
95°	33.0	32.3	31.6	30.8	29.9	29.0	28.1	27.2	28.1	29.0	29.9
97.5°	52.8	52.0	51.2	50.4	49.7	48.9	48.2	47.5	48.2	48.9	49.7
100°	67.5	66.6	65.7	65.1	64.6	64.2	63.8	63.4	63.8	64.2	64.6
102.5°	82.9	82.1	81.3	80.8	80.6	80.4	80.3	80.1	80.3	80.4	80.6
105°	107.0	106.6	106.2	106.0	105.9	105.8	105.7	105.6	105.7	105.8	105.9
107.5°	133.0	133.0	132.9	132.8	132.7	132.6	132.4	132.3	132.4	132.6	132.7
110°	151.1	151.2	151.3	151.2	151.0	150.8	150.6	150.4	150.6	150.8	151.0





TEST NUMBER: P332836

CATALOG NUMBER: S124DIW-S1195D470U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	169.0	169.2	169.4	169.5	169.4	169.4	169.3	169.3	169.3	169.4	169.4
115°	197.1	197.3	197.5	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6
117.5°	224.2	224.4	224.5	224.5	224.5	224.4	224.3	224.2	224.3	224.4	224.5
120°	243.0	243.3	243.6	243.6	243.2	242.8	242.4	242.0	242.4	242.8	243.2
122.5°	260.8	261.0	261.1	261.1	260.9	260.8	260.6	260.5	260.6	260.8	260.9
125°	287.5	287.6	287.7	287.7	287.7	287.7	287.7	287.7	287.7	287.7	287.7
127.5°	313.4	313.6	313.8	313.7	313.4	313.1	312.8	312.5	312.8	313.1	313.4
130°	331.2	331.2	331.2	331.1	330.8	330.5	330.2	329.9	330.2	330.5	330.8
132.5°	348.4	348.5	348.6	348.5	348.3	348.1	347.9	347.6	347.9	348.1	348.3
135°	373.8	373.8	373.8	373.5	372.9	372.3	371.7	371.1	371.7	372.3	372.9
137.5°	398.4	398.2	398.0	397.8	397.5	397.2	397.0	396.7	397.0	397.2	397.5
140°	414.6	414.6	414.6	414.5	414.3	414.1	413.9	413.7	413.9	414.1	414.3
142.5°	430.0	430.1	430.2	430.1	429.9	429.7	429.5	429.3	429.5	429.7	429.9
145°	452.9	452.8	452.7	452.5	452.1	451.7	451.3	450.9	451.3	451.7	452.1
147.5°	474.2	474.3	474.4	474.2	473.7	473.2	472.7	472.3	472.7	473.2	473.7
150°	487.1	487.1	487.1	486.9	486.5	486.1	485.7	485.3	485.7	486.1	486.5
152.5°	498.9	498.8	498.8	498.6	498.4	498.1	497.9	497.6	497.9	498.1	498.4
155°	516.3	516.4	516.5	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6
157.5°	531.7	531.7	531.7	531.8	532.0	532.2	532.3	532.5	532.3	532.2	532.0
160°	541.3	541.4	541.5	541.6	541.7	541.8	541.9	542.0	541.9	541.8	541.7
162.5°	549.2	549.3	549.4	549.6	549.9	550.1	550.4	550.7	550.4	550.1	549.9
165°	560.5	560.7	560.9	561.1	561.4	561.7	562.0	562.3	562.0	561.7	561.4
167.5°	569.5	569.4	569.4	569.6	570.1	570.5	570.9	571.3	570.9	570.5	570.1
170°	574.4	574.3	574.2	574.4	574.9	575.4	575.9	576.4	575.9	575.4	574.9
172.5°	578.2	578.1	578.1	578.3	578.8	579.2	579.6	580.0	579.6	579.2	578.8
175°	582.5	582.6	582.7	583.0	583.5	584.0	584.5	585.0	584.5	584.0	583.5
177.5°	584.8	584.8	584.8	585.0	585.4	585.8	586.2	586.6	586.2	585.8	585.4
180°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9



TEST NUMBER: P332836

CATALOG NUMBER: S124DIW-S1195D470U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1890.3	1884.6	1876.3	1864.8	1855.2	1845.0	1842.4	1838.6	1846.2	1839.9	1837.9
5°	1828.4	1811.6	1790.0	1765.3	1750.9	1730.2	1726.2	1718.2	1710.2	1709.4	1701.4
7.5°	1762.7	1738.1	1709.9	1684.6	1661.3	1638.7	1623.8	1620.6	1608.8	1601.9	1593.9
10°	1720.6	1690.2	1657.5	1633.6	1606.4	1582.5	1565.7	1556.1	1548.1	1539.3	1531.4
12.5°	1670.8	1638.5	1611.5	1585.6	1553.4	1535.2	1507.6	1491.0	1489.4	1489.5	1468.8
15°	1612.8	1580.9	1539.3	1502.6	1485.0	1449.9	1434.7	1415.6	1403.6	1391.6	1382.1
17.5°	1546.5	1506.8	1474.3	1432.2	1398.7	1370.7	1350.8	1339.3	1321.2	1304.3	1292.0
20°	1505.0	1462.7	1428.4	1383.6	1346.9	1312.6	1295.8	1279.9	1266.3	1251.9	1238.3
22.5°	1462.8	1418.6	1376.6	1333.2	1299.0	1262.8	1246.6	1224.9	1212.0	1204.0	1190.4
25°	1396.4	1348.5	1300.6	1259.1	1224.0	1192.0	1170.5	1153.7	1139.3	1132.9	1124.2
27.5°	1324.2	1276.7	1230.4	1183.2	1143.3	1120.2	1102.9	1090.3	1082.0	1073.5	1069.6
30°	1278.3	1228.8	1179.3	1135.3	1098.6	1075.5	1059.5	1050.7	1044.3	1040.3	1036.3
32.5°	1231.6	1182.8	1130.7	1090.6	1057.7	1037.1	1025.0	1016.2	1013.0	1011.6	1010.2
35°	1156.9	1107.4	1059.5	1023.6	992.4	984.4	974.1	969.3	967.7	973.3	975.7
37.5°	1084.6	1038.6	994.5	959.7	939.3	927.6	924.1	924.2	930.0	934.9	940.7
40°	1037.9	993.2	951.7	921.4	902.2	895.0	893.4	897.4	903.8	909.4	915.8
42.5°	992.6	948.5	910.8	882.4	869.0	862.4	863.4	867.4	876.3	883.2	892.8
45°	922.2	885.4	848.7	825.6	814.4	816.0	816.0	823.2	831.9	842.3	852.7
47.5°	855.9	818.9	788.7	769.2	763.4	762.0	766.5	775.9	788.5	801.3	815.8
50°	811.2	776.1	749.7	732.1	725.8	728.2	734.5	743.3	758.5	774.5	789.6
52.5°	765.8	733.9	709.5	693.2	688.7	693.0	699.4	713.3	726.6	743.8	762.2
55°	695.4	668.3	649.1	637.1	635.5	637.9	645.1	660.3	679.4	701.0	718.6
57.5°	625.3	602.6	585.1	576.8	577.6	579.8	591.6	609.7	630.1	653.1	675.8
60°	578.0	557.3	542.9	536.5	537.3	542.1	556.5	573.3	598.8	621.2	645.1
62.5°	533.3	515.1	501.4	495.7	494.5	505.1	518.8	536.2	561.8	586.7	612.5
65°	461.5	447.1	435.9	432.7	435.1	443.1	460.7	483.8	505.4	531.7	558.9
67.5°	391.2	379.4	371.7	373.2	376.1	387.9	402.6	422.5	447.0	474.3	501.1
70°	346.5	335.3	328.9	329.7	334.5	348.9	361.7	381.6	408.0	435.9	458.3
72.5°	300.5	293.2	287.4	290.8	295.6	305.5	321.4	341.4	364.6	390.6	414.2
75°	230.7	230.7	227.5	229.9	237.1	246.7	258.7	279.4	302.6	323.4	342.5
77.5°	171.2	169.4	171.5	174.4	178.5	189.9	203.6	218.4	235.9	256.6	272.4
80°	130.9	131.7	135.7	140.5	142.1	150.9	165.3	178.8	192.4	210.0	225.2
82.5°	98.4	99.2	101.2	107.3	108.9	118.3	127.6	141.2	153.5	165.3	177.9
85°	53.5	53.5	57.5	59.9	63.9	70.3	75.8	83.8	95.0	103.0	115.0
87.5°	21.6	21.8	24.5	25.9	28.0	31.4	32.8	39.9	42.6	45.9	51.7
90°	5.8	6.7	7.6	8.4	9.2	10.0	10.6	11.2	11.8	12.4	12.8
92.5°	14.8	15.7	16.3	16.8	17.4	17.9	18.3	18.7	19.0	19.4	19.6
95°	30.8	31.6	32.3	33.0	33.7	34.4	34.7	35.0	35.3	35.6	35.8
97.5°	50.4	51.2	52.0	52.8	53.6	54.5	54.8	55.2	55.6	55.9	56.1
100°	65.1	65.7	66.6	67.5	68.4	69.3	69.5	69.7	69.9	70.1	70.2
102.5°	80.8	81.3	82.1	82.9	83.7	84.6	84.8	85.1	85.4	85.7	85.9
105°	106.0	106.2	106.6	107.0	107.4	107.8	108.1	108.5	108.8	109.1	109.4
107.5°	132.8	132.9	133.0	133.0	133.1	133.1	133.4	133.7	134.0	134.3	134.4
110°	151.2	151.3	151.2	151.1	151.0	150.9	150.7	150.5	150.3	150.1	150.1



TEST NUMBER: P332836

CATALOG NUMBER: S124DIW-S1195D470U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	169.5	169.4	169.2	169.0	168.8	168.7	168.6	168.6	168.5	168.5	168.5
115°	197.6	197.5	197.3	197.1	196.9	196.7	196.6	196.5	196.4	196.3	196.2
117.5°	224.5	224.5	224.4	224.2	224.1	223.9	223.6	223.3	222.9	222.6	222.3
120°	243.6	243.6	243.3	243.0	242.7	242.4	241.9	241.4	240.9	240.4	240.3
122.5°	261.1	261.1	261.0	260.8	260.7	260.6	260.2	259.9	259.5	259.2	258.8
125°	287.7	287.7	287.6	287.5	287.4	287.3	287.1	286.9	286.7	286.5	286.3
127.5°	313.7	313.8	313.6	313.4	313.3	313.1	312.9	312.7	312.5	312.3	312.1
130°	331.1	331.2	331.2	331.2	331.2	331.2	331.0	330.8	330.6	330.4	330.1
132.5°	348.5	348.6	348.5	348.4	348.4	348.3	348.1	347.9	347.7	347.5	347.3
135°	373.5	373.8	373.8	373.8	373.8	373.8	373.6	373.4	373.2	373.0	372.8
137.5°	397.8	398.0	398.2	398.4	398.5	398.7	398.4	398.1	397.9	397.6	397.5
140°	414.5	414.6	414.6	414.6	414.6	414.6	414.5	414.4	414.3	414.2	414.1
142.5°	430.1	430.2	430.1	430.0	429.9	429.8	429.8	429.8	429.8	429.8	429.7
145°	452.5	452.7	452.8	452.9	453.0	453.1	453.0	452.9	452.8	452.7	452.5
147.5°	474.2	474.4	474.3	474.2	474.2	474.1	474.0	473.9	473.8	473.8	473.7
150°	486.9	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1
152.5°	498.6	498.8	498.8	498.9	499.0	499.1	499.3	499.6	499.8	500.1	500.0
155°	516.6	516.5	516.4	516.3	516.2	516.1	516.5	516.9	517.3	517.7	517.7
157.5°	531.8	531.7	531.7	531.7	531.6	531.6	531.9	532.2	532.5	532.8	532.8
160°	541.6	541.5	541.4	541.3	541.2	541.1	541.4	541.7	542.0	542.3	542.2
162.5°	549.6	549.4	549.3	549.2	549.1	549.0	549.6	550.1	550.7	551.2	551.2
165°	561.1	560.9	560.7	560.5	560.3	560.1	560.7	561.3	561.9	562.5	562.6
167.5°	569.6	569.4	569.4	569.5	569.5	569.5	570.1	570.7	571.3	571.9	571.9
170°	574.4	574.2	574.3	574.4	574.5	574.6	575.2	575.8	576.4	577.0	576.9
172.5°	578.3	578.1	578.1	578.2	578.2	578.2	578.9	579.6	580.3	580.9	580.9
175°	583.0	582.7	582.6	582.5	582.4	582.3	583.0	583.7	584.4	585.1	585.1
177.5°	585.0	584.8	584.8	584.8	584.8	584.8	585.4	586.0	586.5	587.1	587.0
180°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9



TEST NUMBER: P332836

CATALOG NUMBER: S124DIW-S1195D470U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1836.7	1835.4	1830.9	1830.3	1830.9	1835.4	1836.7	1837.9	1839.9	1846.2	1838.6
5°	1696.6	1692.6	1690.2	1699.0	1690.2	1692.6	1696.6	1701.4	1709.4	1710.2	1718.2
7.5°	1591.1	1587.9	1580.9	1578.6	1580.9	1587.9	1591.1	1593.9	1601.9	1608.8	1620.6
10°	1523.4	1520.2	1513.8	1512.2	1513.8	1520.2	1523.4	1531.4	1539.3	1548.1	1556.1
12.5°	1458.2	1451.8	1450.6	1452.2	1450.6	1451.8	1458.2	1468.8	1489.5	1489.4	1491.0
15°	1371.7	1368.5	1359.7	1362.1	1359.7	1368.5	1371.7	1382.1	1391.6	1403.6	1415.6
17.5°	1286.4	1282.6	1271.9	1281.3	1271.9	1282.6	1286.4	1292.0	1304.3	1321.2	1339.3
20°	1232.7	1226.4	1220.8	1220.0	1220.8	1226.4	1232.7	1238.3	1251.9	1266.3	1279.9
22.5°	1181.6	1175.9	1175.4	1170.2	1175.4	1175.9	1181.6	1190.4	1204.0	1212.0	1224.9
25°	1117.8	1112.2	1110.6	1106.6	1110.6	1112.2	1117.8	1124.2	1132.9	1139.3	1153.7
27.5°	1068.8	1066.0	1063.2	1064.4	1063.2	1066.0	1068.8	1069.6	1073.5	1082.0	1090.3
30°	1038.7	1037.9	1036.3	1036.3	1036.3	1037.9	1038.7	1036.3	1040.3	1044.3	1050.7
32.5°	1013.8	1013.7	1014.6	1014.6	1014.6	1013.7	1013.8	1010.2	1011.6	1013.0	1016.2
35°	978.9	981.2	982.8	980.4	982.8	981.2	978.9	975.7	973.3	967.7	969.3
37.5°	947.2	949.6	951.9	954.6	951.9	949.6	947.2	940.7	934.9	930.0	924.2
40°	923.0	928.6	930.1	934.1	930.1	928.6	923.0	915.8	909.4	903.8	897.4
42.5°	900.0	906.2	910.3	911.1	910.3	906.2	900.0	892.8	883.2	876.3	867.4
45°	864.7	871.1	876.7	876.7	876.7	871.1	864.7	852.7	842.3	831.9	823.2
47.5°	828.1	837.4	843.0	844.4	843.0	837.4	828.1	815.8	801.3	788.5	775.9
50°	803.2	814.4	820.0	824.0	820.0	814.4	803.2	789.6	774.5	758.5	743.3
52.5°	778.9	790.1	797.6	799.7	797.6	790.1	778.9	762.2	743.8	726.6	713.3
55°	736.9	752.9	761.7	764.9	761.7	752.9	736.9	718.6	701.0	679.4	660.3
57.5°	697.3	712.0	722.2	724.6	722.2	712.0	697.3	675.8	653.1	630.1	609.7
60°	666.7	682.6	695.4	697.8	695.4	682.6	666.7	645.1	621.2	598.8	573.3
62.5°	635.4	652.0	663.5	669.7	663.5	652.0	635.4	612.5	586.7	561.8	536.2
65°	581.2	598.0	609.2	611.6	609.2	598.0	581.2	558.9	531.7	505.4	483.8
67.5°	522.2	538.9	546.3	550.9	546.3	538.9	522.2	501.1	474.3	447.0	422.5
70°	480.6	494.2	502.2	506.2	502.2	494.2	480.6	458.3	435.9	408.0	381.6
72.5°	433.4	447.6	456.9	457.6	456.9	447.6	433.4	414.2	390.6	364.6	341.4
75°	360.9	373.7	378.4	378.4	378.4	373.7	360.9	342.5	323.4	302.6	279.4
77.5°	285.7	292.2	298.3	299.6	298.3	292.2	285.7	272.4	256.6	235.9	218.4
80°	237.1	241.1	245.9	245.9	245.9	241.1	237.1	225.2	210.0	192.4	178.8
82.5°	187.3	190.7	195.5	194.8	195.5	190.7	187.3	177.9	165.3	153.5	141.2
85°	113.4	120.6	119.8	118.2	119.8	120.6	113.4	115.0	103.0	95.0	83.8
87.5°	53.7	54.4	56.3	57.6	56.3	54.4	53.7	51.7	45.9	42.6	39.9
90°	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.4	11.8	11.2
92.5°	19.8	19.9	20.0	20.1	20.0	19.9	19.8	19.6	19.4	19.0	18.7
95°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.6	35.3	35.0
97.5°	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	55.9	55.6	55.2
100°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.1	69.9	69.7
102.5°	85.9	86.0	86.1	86.2	86.1	86.0	85.9	85.9	85.7	85.4	85.1
105°	109.7	110.0	110.3	110.6	110.3	110.0	109.7	109.4	109.1	108.8	108.5
107.5°	134.4	134.4	134.3	134.3	134.3	134.4	134.4	134.4	134.3	134.0	133.7
110°	150.4	150.7	151.0	151.3	151.0	150.7	150.4	150.1	150.1	150.3	150.5



TEST NUMBER: P332836

CATALOG NUMBER: S124DIW-S1195D470U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	168.6	168.6	168.7	168.7	168.7	168.6	168.6	168.5	168.5	168.5	168.6
115°	196.1	196.0	195.9	195.8	195.9	196.0	196.1	196.2	196.3	196.4	196.5
117.5°	222.1	221.9	221.7	221.5	221.7	221.9	222.1	222.3	222.6	222.9	223.3
120°	240.5	240.7	240.9	241.1	240.9	240.7	240.5	240.3	240.4	240.9	241.4
122.5°	258.5	258.1	257.7	257.4	257.7	258.1	258.5	258.8	259.2	259.5	259.9
125°	286.1	285.9	285.7	285.5	285.7	285.9	286.1	286.3	286.5	286.7	286.9
127.5°	312.0	311.8	311.7	311.5	311.7	311.8	312.0	312.1	312.3	312.5	312.7
130°	329.7	329.3	328.9	328.5	328.9	329.3	329.7	330.1	330.4	330.6	330.8
132.5°	347.1	347.0	346.8	346.7	346.8	347.0	347.1	347.3	347.5	347.7	347.9
135°	372.5	372.2	371.9	371.6	371.9	372.2	372.5	372.8	373.0	373.2	373.4
137.5°	397.6	397.6	397.7	397.8	397.7	397.6	397.6	397.5	397.6	397.9	398.1
140°	414.0	413.9	413.8	413.7	413.8	413.9	414.0	414.1	414.2	414.3	414.4
142.5°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.8	429.8	429.8
145°	452.2	451.9	451.6	451.3	451.6	451.9	452.2	452.5	452.7	452.8	452.9
147.5°	473.6	473.5	473.4	473.3	473.4	473.5	473.6	473.7	473.8	473.8	473.9
150°	487.0	486.9	486.8	486.7	486.8	486.9	487.0	487.1	487.1	487.1	487.1
152.5°	499.8	499.5	499.3	499.0	499.3	499.5	499.8	500.0	500.1	499.8	499.6
155°	517.3	516.9	516.5	516.1	516.5	516.9	517.3	517.7	517.7	517.3	516.9
157.5°	532.5	532.1	531.8	531.4	531.8	532.1	532.5	532.8	532.8	532.5	532.2
160°	541.7	541.2	540.6	540.1	540.6	541.2	541.7	542.2	542.3	542.0	541.7
162.5°	550.7	550.2	549.7	549.2	549.7	550.2	550.7	551.2	551.2	550.7	550.1
165°	562.2	561.8	561.4	561.0	561.4	561.8	562.2	562.6	562.5	561.9	561.3
167.5°	571.3	570.7	570.0	569.4	570.0	570.7	571.3	571.9	571.9	571.3	570.7
170°	576.2	575.5	574.8	574.1	574.8	575.5	576.2	576.9	577.0	576.4	575.8
172.5°	580.2	579.5	578.8	578.1	578.8	579.5	580.2	580.9	580.9	580.3	579.6
175°	584.4	583.7	583.0	582.3	583.0	583.7	584.4	585.1	585.1	584.4	583.7
177.5°	586.4	585.8	585.1	584.5	585.1	585.8	586.4	587.0	587.1	586.5	586.0
180°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9



TEST NUMBER: P332836

CATALOG NUMBER: S124DIW-S1195D470U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1842.4	1845.0	1855.2	1864.8	1876.3	1884.6	1890.3	1896.7	1910.1	1921.0	1931.2
5°	1726.2	1730.2	1750.9	1765.3	1790.0	1811.6	1828.4	1846.7	1868.3	1897.8	1925.0
7.5°	1623.8	1638.7	1661.3	1684.6	1709.9	1738.1	1762.7	1790.4	1827.6	1868.1	1910.0
10°	1565.7	1582.5	1606.4	1633.6	1657.5	1690.2	1720.6	1753.3	1795.6	1845.1	1894.6
12.5°	1507.6	1535.2	1553.4	1585.6	1611.5	1638.5	1670.8	1713.7	1763.1	1815.1	1874.8
15°	1434.7	1449.9	1485.0	1502.6	1539.3	1580.9	1612.8	1655.9	1703.8	1772.5	1839.5
17.5°	1350.8	1370.7	1398.7	1432.2	1474.3	1506.8	1546.5	1590.9	1651.3	1719.5	1803.5
20°	1295.8	1312.6	1346.9	1383.6	1428.4	1462.7	1505.0	1548.1	1610.4	1683.1	1770.9
22.5°	1246.6	1262.8	1299.0	1333.2	1376.6	1418.6	1462.8	1513.0	1572.7	1649.2	1738.9
25°	1170.5	1192.0	1224.0	1259.1	1300.6	1348.5	1396.4	1441.1	1505.0	1585.6	1681.5
27.5°	1102.9	1120.2	1143.3	1183.2	1230.4	1276.7	1324.2	1380.5	1441.8	1527.0	1626.5
30°	1059.5	1075.5	1098.6	1135.3	1179.3	1228.8	1278.3	1332.5	1396.4	1481.1	1582.5
32.5°	1025.0	1037.1	1057.7	1090.6	1130.7	1182.8	1231.6	1287.8	1354.9	1438.3	1537.1
35°	974.1	984.4	992.4	1023.6	1059.5	1107.4	1156.9	1216.8	1281.5	1360.5	1459.5
37.5°	924.1	927.6	939.3	959.7	994.5	1038.6	1084.6	1143.5	1209.8	1290.1	1379.3
40°	893.4	895.0	902.2	921.4	951.7	993.2	1037.9	1096.2	1159.3	1235.1	1323.8
42.5°	863.4	862.4	869.0	882.4	910.8	948.5	992.6	1045.8	1108.8	1178.9	1262.4
45°	816.0	816.0	814.4	825.6	848.7	885.4	922.2	973.3	1026.0	1094.6	1164.9
47.5°	766.5	762.0	763.4	769.2	788.7	818.9	855.9	897.7	944.2	1002.3	1064.0
50°	734.5	728.2	725.8	732.1	749.7	776.1	811.2	847.9	891.8	942.9	995.6
52.5°	699.4	693.0	688.7	693.2	709.5	733.9	765.8	798.1	837.5	879.1	924.7
55°	645.1	637.9	635.5	637.1	649.1	668.3	695.4	725.0	754.5	788.8	820.8
57.5°	591.6	579.8	577.6	576.8	585.1	602.6	625.3	650.9	672.4	693.2	727.2
60°	556.5	542.1	537.3	536.5	542.9	557.3	578.0	603.6	618.8	633.1	662.7
62.5°	518.8	505.1	494.5	495.7	501.4	515.1	533.3	551.9	561.9	577.6	597.5
65°	460.7	443.1	435.1	432.7	435.9	447.1	461.5	473.5	484.6	491.0	510.2
67.5°	402.6	387.9	376.1	373.2	371.7	379.4	391.2	398.4	406.4	412.0	423.3
70°	361.7	348.9	334.5	329.7	328.9	335.3	346.5	347.3	358.5	360.9	372.9
72.5°	321.4	305.5	295.6	290.8	287.4	293.2	300.5	302.6	308.7	313.0	319.2
75°	258.7	246.7	237.1	229.9	227.5	230.7	230.7	234.7	238.7	241.1	248.3
77.5°	203.6	189.9	178.5	174.4	171.5	169.4	171.2	173.6	171.7	175.8	177.4
80°	165.3	150.9	142.1	140.5	135.7	131.7	130.9	133.3	130.1	131.7	136.5
82.5°	127.6	118.3	108.9	107.3	101.2	99.2	98.4	96.9	96.9	96.6	97.6
85°	75.8	70.3	63.9	59.9	57.5	53.5	53.5	51.9	50.3	48.7	49.5
87.5°	32.8	31.4	28.0	25.9	24.5	21.8	21.6	19.5	18.6	17.7	16.9
90°	10.6	10.0	9.2	8.4	7.6	6.7	5.8	4.7	3.6	2.5	1.4
92.5°	18.3	17.9	17.4	16.8	16.3	15.7	14.8	13.5	12.2	11.0	9.7
95°	34.7	34.4	33.7	33.0	32.3	31.6	30.8	29.9	29.0	28.1	27.2
97.5°	54.8	54.5	53.6	52.8	52.0	51.2	50.4	49.7	48.9	48.2	47.5
100°	69.5	69.3	68.4	67.5	66.6	65.7	65.1	64.6	64.2	63.8	63.4
102.5°	84.8	84.6	83.7	82.9	82.1	81.3	80.8	80.6	80.4	80.3	80.1
105°	108.1	107.8	107.4	107.0	106.6	106.2	106.0	105.9	105.8	105.7	105.6
107.5°	133.4	133.1	133.1	133.0	133.0	132.9	132.8	132.7	132.6	132.4	132.3
110°	150.7	150.9	151.0	151.1	151.2	151.3	151.2	151.0	150.8	150.6	150.4



TEST NUMBER: P332836

CATALOG NUMBER: S124DIW-S1195D470U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	168.6	168.7	168.8	169.0	169.2	169.4	169.5	169.4	169.4	169.3	169.3
115°	196.6	196.7	196.9	197.1	197.3	197.5	197.6	197.6	197.6	197.6	197.6
117.5°	223.6	223.9	224.1	224.2	224.4	224.5	224.5	224.5	224.4	224.3	224.2
120°	241.9	242.4	242.7	243.0	243.3	243.6	243.6	243.2	242.8	242.4	242.0
122.5°	260.2	260.6	260.7	260.8	261.0	261.1	261.1	260.9	260.8	260.6	260.5
125°	287.1	287.3	287.4	287.5	287.6	287.7	287.7	287.7	287.7	287.7	287.7
127.5°	312.9	313.1	313.3	313.4	313.6	313.8	313.7	313.4	313.1	312.8	312.5
130°	331.0	331.2	331.2	331.2	331.2	331.2	331.1	330.8	330.5	330.2	329.9
132.5°	348.1	348.3	348.4	348.4	348.5	348.6	348.5	348.3	348.1	347.9	347.6
135°	373.6	373.8	373.8	373.8	373.8	373.8	373.5	372.9	372.3	371.7	371.1
137.5°	398.4	398.7	398.5	398.4	398.2	398.0	397.8	397.5	397.2	397.0	396.7
140°	414.5	414.6	414.6	414.6	414.6	414.6	414.5	414.3	414.1	413.9	413.7
142.5°	429.8	429.8	429.9	430.0	430.1	430.2	430.1	429.9	429.7	429.5	429.3
145°	453.0	453.1	453.0	452.9	452.8	452.7	452.5	452.1	451.7	451.3	450.9
147.5°	474.0	474.1	474.2	474.2	474.3	474.4	474.2	473.7	473.2	472.7	472.3
150°	487.1	487.1	487.1	487.1	487.1	487.1	486.9	486.5	486.1	485.7	485.3
152.5°	499.3	499.1	499.0	498.9	498.8	498.8	498.6	498.4	498.1	497.9	497.6
155°	516.5	516.1	516.2	516.3	516.4	516.5	516.6	516.6	516.6	516.6	516.6
157.5°	531.9	531.6	531.6	531.7	531.7	531.7	531.8	532.0	532.2	532.3	532.5
160°	541.4	541.1	541.2	541.3	541.4	541.5	541.6	541.7	541.8	541.9	542.0
162.5°	549.6	549.0	549.1	549.2	549.3	549.4	549.6	549.9	550.1	550.4	550.7
165°	560.7	560.1	560.3	560.5	560.7	560.9	561.1	561.4	561.7	562.0	562.3
167.5°	570.1	569.5	569.5	569.5	569.4	569.4	569.6	570.1	570.5	570.9	571.3
170°	575.2	574.6	574.5	574.4	574.3	574.2	574.4	574.9	575.4	575.9	576.4
172.5°	578.9	578.2	578.2	578.2	578.1	578.1	578.3	578.8	579.2	579.6	580.0
175°	583.0	582.3	582.4	582.5	582.6	582.7	583.0	583.5	584.0	584.5	585.0
177.5°	585.4	584.8	584.8	584.8	584.8	584.8	585.0	585.4	585.8	586.2	586.6
180°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9



TEST NUMBER: P332836

CATALOG NUMBER: S124DIW-S1195D470U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1940.1	1946.5	1954.8	1968.9	1974.0	1980.4	1989.3	1988.7	1991.2	2000.8	2021.3
5°	1947.3	1972.1	1996.0	2024.8	2055.1	2075.1	2102.2	2119.0	2135.8	2157.3	2194.0
7.5°	1950.2	1989.5	2033.4	2083.9	2128.7	2180.5	2220.9	2258.9	2293.2	2338.7	2382.5
10°	1945.7	1998.4	2055.1	2119.0	2186.8	2244.3	2296.2	2355.3	2405.6	2460.7	2510.2
12.5°	1937.4	2001.0	2076.8	2148.4	2227.7	2312.7	2377.4	2437.1	2504.0	2567.4	2643.7
15°	1918.6	2005.6	2094.2	2188.4	2294.6	2392.8	2486.3	2563.7	2635.6	2730.6	2830.4
17.5°	1894.6	1988.5	2100.3	2214.3	2325.3	2437.6	2553.2	2669.6	2760.3	2878.3	2956.4
20°	1872.3	1980.9	2095.8	2231.6	2342.5	2482.3	2597.2	2709.8	2834.4	2951.7	3045.1
22.5°	1841.0	1959.8	2081.8	2216.9	2363.0	2502.7	2635.6	2757.7	2882.3	3009.9	3123.1
25°	1801.2	1909.0	2053.5	2206.8	2352.1	2503.8	2656.3	2809.6	2943.7	3078.7	3184.1
27.5°	1733.5	1869.6	2004.2	2162.4	2323.9	2495.5	2658.6	2819.0	2959.6	3070.5	3135.8
30°	1699.0	1817.2	1963.3	2122.2	2297.0	2481.5	2651.5	2808.8	2939.8	3028.4	3054.7
32.5°	1647.9	1769.9	1912.8	2077.5	2262.5	2452.1	2629.2	2777.5	2886.7	2933.2	2901.4
35°	1572.1	1682.3	1826.8	1995.2	2187.6	2389.6	2564.5	2689.8	2745.7	2701.8	2592.4
37.5°	1481.1	1590.3	1735.4	1900.9	2100.0	2305.3	2463.4	2553.6	2535.1	2425.9	2262.9
40°	1417.2	1519.4	1657.5	1836.3	2030.4	2236.4	2375.3	2424.0	2372.9	2216.4	2043.1
42.5°	1346.3	1445.9	1584.7	1757.1	1962.7	2152.7	2273.7	2277.7	2192.1	2005.0	1831.1
45°	1238.3	1333.3	1464.3	1643.9	1834.0	2012.8	2092.6	2053.5	1895.4	1715.0	1540.1
47.5°	1131.8	1214.2	1343.2	1513.8	1694.2	1844.8	1884.4	1814.0	1645.5	1470.4	1308.3
50°	1053.9	1136.9	1258.3	1421.2	1595.2	1725.4	1744.5	1651.1	1485.8	1309.4	1182.4
52.5°	979.2	1061.6	1178.5	1329.2	1488.6	1605.9	1606.6	1498.5	1333.8	1176.5	1058.5
55°	869.5	943.7	1049.1	1184.0	1326.2	1418.0	1395.6	1283.8	1140.9	1004.4	901.4
57.5°	763.8	828.4	925.5	1038.1	1163.3	1239.0	1201.9	1094.3	966.7	850.9	772.9
60°	695.4	756.9	839.9	946.1	1051.5	1110.6	1075.5	978.1	860.7	767.3	699.4
62.5°	629.0	680.9	760.7	852.9	950.6	994.3	963.0	866.9	765.5	681.0	626.0
65°	534.9	577.3	641.1	720.2	791.2	828.8	802.4	713.0	635.5	574.9	530.9
67.5°	447.1	480.2	528.5	591.9	652.3	672.6	648.6	586.4	520.7	472.2	441.2
70°	386.4	417.6	458.3	507.0	559.7	581.2	557.3	507.8	454.3	409.6	379.2
72.5°	333.4	357.5	391.9	433.5	474.7	496.3	480.0	432.4	387.2	354.0	328.1
75°	253.9	274.7	298.6	328.1	360.1	374.5	360.1	327.3	296.2	271.5	253.1
77.5°	184.6	195.8	214.3	236.3	256.3	267.3	254.9	232.7	213.7	196.7	187.6
80°	140.5	148.5	161.3	178.8	192.4	202.8	194.8	176.4	161.3	150.1	146.1
82.5°	102.2	107.6	115.9	129.0	138.1	143.4	139.9	126.6	120.4	110.5	106.5
85°	50.3	53.5	59.1	63.1	71.1	71.9	72.7	67.1	61.5	59.1	55.9
87.5°	17.7	18.6	20.7	22.9	25.6	26.4	25.9	26.1	23.7	23.2	20.8
90°	2.5	3.6	4.7	5.8	6.7	7.6	8.4	9.2	10.0	10.6	11.2
92.5°	11.0	12.2	13.5	14.8	15.7	16.3	16.8	17.4	17.9	18.3	18.7
95°	28.1	29.0	29.9	30.8	31.6	32.3	33.0	33.7	34.4	34.7	35.0
97.5°	48.2	48.9	49.7	50.4	51.2	52.0	52.8	53.6	54.5	54.8	55.2
100°	63.8	64.2	64.6	65.1	65.7	66.6	67.5	68.4	69.3	69.5	69.7
102.5°	80.3	80.4	80.6	80.8	81.3	82.1	82.9	83.7	84.6	84.8	85.1
105°	105.7	105.8	105.9	106.0	106.2	106.6	107.0	107.4	107.8	108.1	108.5
107.5°	132.4	132.6	132.7	132.8	132.9	133.0	133.0	133.1	133.1	133.4	133.7
110°	150.6	150.8	151.0	151.2	151.3	151.2	151.1	151.0	150.9	150.7	150.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	169.3	169.4	169.4	169.5	169.4	169.2	169.0	168.8	168.7	168.6	168.6
115°	197.6	197.6	197.6	197.6	197.5	197.3	197.1	196.9	196.7	196.6	196.5
117.5°	224.3	224.4	224.5	224.5	224.5	224.4	224.2	224.1	223.9	223.6	223.3
120°	242.4	242.8	243.2	243.6	243.6	243.3	243.0	242.7	242.4	241.9	241.4
122.5°	260.6	260.8	260.9	261.1	261.1	261.0	260.8	260.7	260.6	260.2	259.9
125°	287.7	287.7	287.7	287.7	287.7	287.6	287.5	287.4	287.3	287.1	286.9
127.5°	312.8	313.1	313.4	313.7	313.8	313.6	313.4	313.3	313.1	312.9	312.7
130°	330.2	330.5	330.8	331.1	331.2	331.2	331.2	331.2	331.2	331.0	330.8
132.5°	347.9	348.1	348.3	348.5	348.6	348.5	348.4	348.4	348.3	348.1	347.9
135°	371.7	372.3	372.9	373.5	373.8	373.8	373.8	373.8	373.8	373.6	373.4
137.5°	397.0	397.2	397.5	397.8	398.0	398.2	398.4	398.5	398.7	398.4	398.1
140°	413.9	414.1	414.3	414.5	414.6	414.6	414.6	414.6	414.6	414.5	414.4
142.5°	429.5	429.7	429.9	430.1	430.2	430.1	430.0	429.9	429.8	429.8	429.8
145°	451.3	451.7	452.1	452.5	452.7	452.8	452.9	453.0	453.1	453.0	452.9
147.5°	472.7	473.2	473.7	474.2	474.4	474.3	474.2	474.2	474.1	474.0	473.9
150°	485.7	486.1	486.5	486.9	487.1	487.1	487.1	487.1	487.1	487.1	487.1
152.5°	497.9	498.1	498.4	498.6	498.8	498.8	498.9	499.0	499.1	499.3	499.6
155°	516.6	516.6	516.6	516.6	516.5	516.4	516.3	516.2	516.1	516.5	516.9
157.5°	532.3	532.2	532.0	531.8	531.7	531.7	531.7	531.6	531.6	531.9	532.2
160°	541.9	541.8	541.7	541.6	541.5	541.4	541.3	541.2	541.1	541.4	541.7
162.5°	550.4	550.1	549.9	549.6	549.4	549.3	549.2	549.1	549.0	549.6	550.1
165°	562.0	561.7	561.4	561.1	560.9	560.7	560.5	560.3	560.1	560.7	561.3
167.5°	570.9	570.5	570.1	569.6	569.4	569.4	569.5	569.5	569.5	570.1	570.7
170°	575.9	575.4	574.9	574.4	574.2	574.3	574.4	574.5	574.6	575.2	575.8
172.5°	579.6	579.2	578.8	578.3	578.1	578.1	578.2	578.2	578.2	578.9	579.6
175°	584.5	584.0	583.5	583.0	582.7	582.6	582.5	582.4	582.3	583.0	583.7
177.5°	586.2	585.8	585.4	585.0	584.8	584.8	584.8	584.8	584.8	585.4	586.0
180°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2031.5	2032.8	2038.5	2043.0	2044.3	2050.6	2051.3
5°	2210.0	2223.6	2249.9	2252.3	2256.3	2277.1	2261.1
7.5°	2419.2	2453.7	2476.7	2497.0	2504.3	2513.4	2511.5
10°	2553.3	2604.4	2630.0	2670.7	2672.3	2682.7	2676.3
12.5°	2688.1	2747.5	2794.1	2801.6	2835.8	2841.1	2850.0
15°	2879.1	2942.1	3006.8	3030.0	3077.1	3088.3	3105.8
17.5°	3058.6	3123.1	3168.4	3228.3	3247.6	3273.5	3255.9
20°	3156.9	3227.2	3284.7	3331.8	3351.7	3366.1	3364.5
22.5°	3216.3	3287.2	3333.8	3369.5	3388.1	3394.2	3393.9
25°	3253.5	3294.2	3308.6	3322.2	3301.4	3294.2	3297.4
27.5°	3150.1	3139.5	3102.0	3052.8	3001.7	2961.1	2939.1
30°	3007.6	2945.3	2888.7	2789.6	2738.6	2708.2	2681.1
32.5°	2805.8	2707.1	2598.0	2507.3	2449.2	2404.2	2397.5
35°	2459.9	2311.4	2178.1	2067.1	2009.6	1960.9	1949.7
37.5°	2091.4	1937.1	1817.0	1719.3	1657.5	1623.2	1591.1
40°	1846.7	1714.2	1596.0	1513.0	1465.9	1441.1	1421.2
42.5°	1658.3	1537.3	1419.7	1356.5	1313.9	1298.7	1287.0
45°	1398.0	1285.4	1204.0	1156.1	1131.3	1105.8	1093.8
47.5°	1189.6	1098.0	1044.3	1003.6	977.1	961.9	954.3
50°	1071.5	996.4	948.5	917.4	893.4	881.4	875.1
52.5°	966.7	905.1	864.8	840.1	823.8	815.0	812.5
55°	832.7	785.6	760.1	738.5	726.6	718.6	715.4
57.5°	723.8	687.6	666.8	649.1	644.5	637.8	635.5
60°	652.3	624.4	606.8	594.8	590.8	582.8	584.4
62.5°	589.1	566.2	551.2	544.4	539.1	532.4	534.6
65°	498.2	481.4	473.5	467.1	460.7	456.7	459.9
67.5°	418.0	406.6	395.7	392.0	388.8	388.2	384.8
70°	365.7	356.1	346.5	344.1	344.1	340.9	340.1
72.5°	315.2	308.2	301.8	300.0	297.5	298.8	295.4
75°	243.5	237.9	235.5	233.1	232.3	232.3	229.9
77.5°	180.0	175.8	172.0	172.0	169.1	168.0	167.7
80°	136.5	134.9	131.7	131.7	130.1	130.9	129.3
82.5°	102.7	100.4	99.8	98.5	96.3	96.4	94.9
85°	55.1	52.7	51.9	49.5	47.9	49.5	47.9
87.5°	21.5	21.0	20.4	19.2	18.6	18.6	16.8
90°	11.8	12.4	12.8	13.0	13.2	13.4	13.6
92.5°	19.0	19.4	19.6	19.8	19.9	20.0	20.1
95°	35.3	35.6	35.8	35.8	35.8	35.8	35.8
97.5°	55.6	55.9	56.1	56.1	56.1	56.1	56.1
100°	69.9	70.1	70.2	70.2	70.2	70.2	70.2
102.5°	85.4	85.7	85.9	85.9	86.0	86.1	86.2
105°	108.8	109.1	109.4	109.7	110.0	110.3	110.6
107.5°	134.0	134.3	134.4	134.4	134.4	134.3	134.3
110°	150.3	150.1	150.1	150.4	150.7	151.0	151.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	168.5	168.5	168.5	168.6	168.6	168.7	168.7
115°	196.4	196.3	196.2	196.1	196.0	195.9	195.8
117.5°	222.9	222.6	222.3	222.1	221.9	221.7	221.5
120°	240.9	240.4	240.3	240.5	240.7	240.9	241.1
122.5°	259.5	259.2	258.8	258.5	258.1	257.7	257.4
125°	286.7	286.5	286.3	286.1	285.9	285.7	285.5
127.5°	312.5	312.3	312.1	312.0	311.8	311.7	311.5
130°	330.6	330.4	330.1	329.7	329.3	328.9	328.5
132.5°	347.7	347.5	347.3	347.1	347.0	346.8	346.7
135°	373.2	373.0	372.8	372.5	372.2	371.9	371.6
137.5°	397.9	397.6	397.5	397.6	397.6	397.7	397.8
140°	414.3	414.2	414.1	414.0	413.9	413.8	413.7
142.5°	429.8	429.8	429.7	429.7	429.7	429.7	429.7
145°	452.8	452.7	452.5	452.2	451.9	451.6	451.3
147.5°	473.8	473.8	473.7	473.6	473.5	473.4	473.3
150°	487.1	487.1	487.1	487.0	486.9	486.8	486.7
152.5°	499.8	500.1	500.0	499.8	499.5	499.3	499.0
155°	517.3	517.7	517.7	517.3	516.9	516.5	516.1
157.5°	532.5	532.8	532.8	532.5	532.1	531.8	531.4
160°	542.0	542.3	542.2	541.7	541.2	540.6	540.1
162.5°	550.7	551.2	551.2	550.7	550.2	549.7	549.2
165°	561.9	562.5	562.6	562.2	561.8	561.4	561.0
167.5°	571.3	571.9	571.9	571.3	570.7	570.0	569.4
170°	576.4	577.0	576.9	576.2	575.5	574.8	574.1
172.5°	580.3	580.9	580.9	580.2	579.5	578.8	578.1
175°	584.4	585.1	585.1	584.4	583.7	583.0	582.3
177.5°	586.5	587.1	587.0	586.4	585.8	585.1	584.5
180°	585.9	585.9	585.9	585.9	585.9	585.9	585.9

(END OF REPORT)