

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: P332680-840

Luminaire Tested: **SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332680-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

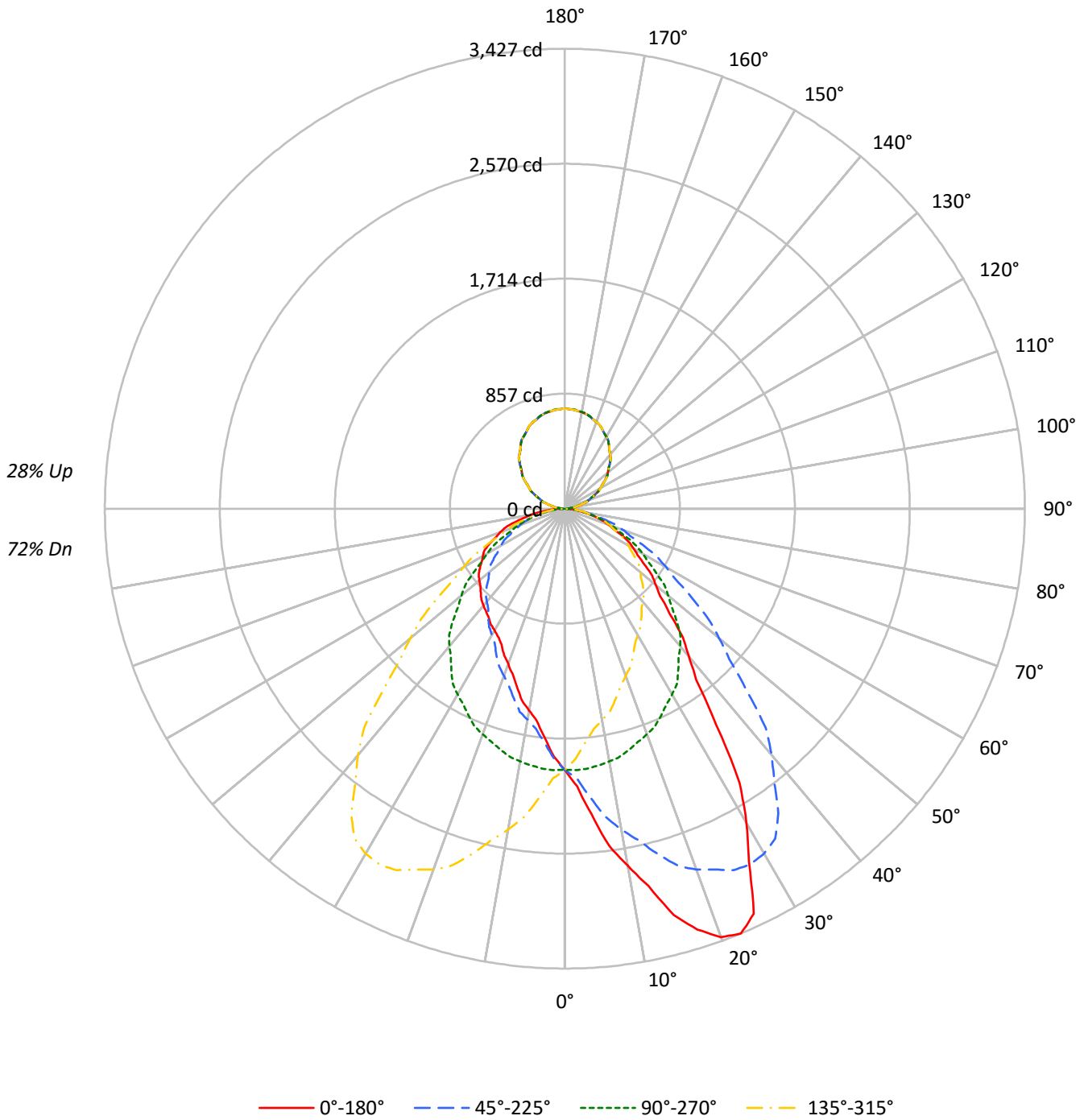
Lumens per Lamp: N/A
Luminaire Lumens: 7438.5 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.1
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	0	
RCR																						
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72	72	72	72	
1	103	99	95	91	98	94	90	87	85	82	79	76	74	72	68	67	65	61	61	61	61	
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	56	52	52	52	52	
3	86	76	69	63	81	73	66	61	66	61	56	60	55	52	54	50	48	44	44	44	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	49	45	48	45	41	38	38	38	38	
5	73	61	53	46	69	58	51	45	53	47	42	48	43	39	44	40	36	34	34	34	34	
6	67	55	47	41	64	52	45	39	48	42	37	44	38	34	40	35	32	30	30	30	30	
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29	26	26	26	26	
8	58	45	37	32	55	44	36	31	40	34	29	37	31	28	34	29	26	24	24	24	24	
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	21	21	21	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	19	19	19	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15713	15713	15713	15713
5°	18504	15754	13904	15754
10°	22155	15684	12518	15684
15°	26213	15525	11496	15525
20°	29190	15364	10584	15364
25°	29661	15126	9954	15126
30°	25239	14897	9755	14897
35°	19404	14526	9758	14526
40°	15125	14089	9941	14089
45°	12611	13431	10107	13431
50°	11099	12627	10451	12627
55°	10169	11667	10871	11667
60°	9529	10805	11378	10805
65°	8871	9841	11798	9841
70°	8108	8889	12066	8889
75°	7243	7820	11918	7820
80°	6072	6406	11544	6406
85°	4483	4631	11060	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	2.5
10°-20°	584.5	7.9
20°-30°	926.8	12.5
30°-40°	1031.4	13.9
40°-50°	938.9	12.6
50°-60°	767.2	10.3
60°-70°	547.7	7.4
70°-80°	301.6	4.1
80°-90°	84.6	1.1
90°-100°	49.1	0.7
100°-110°	145.5	2.0
110°-120°	247.0	3.3
120°-130°	325.7	4.4
130°-140°	365.7	4.9
140°-150°	359.4	4.8
150°-160°	302.3	4.1
160°-170°	201.1	2.7
170°-180°	70.4	0.9
0°-30°	1700.9	22.9
0°-40°	2732.3	36.7
0°-60°	4438.4	59.7
0°-90°	5372.3	72.2
90°-120°	441.6	5.9
90°-150°	1492.4	20.1
90°-180°	2066.0	27.8
0°-180°	7438.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1946	1946	1946	1946	1946	
5°	2283	1944	1716	1944	2283	232
15°	3136	1858	1376	1858	3136	886
25°	3330	1698	1118	1698	3330	1468
35°	1969	1474	990	1474	1969	1250
45°	1105	1176	885	1176	1105	870
55°	722	829	772	829	722	653
65°	464	515	618	515	464	460
75°	232	251	382	251	232	247
85°	48	50	119	50	48	59
90°	17	2	17	2	17	11
95°	46	34	46	34	46	47
105°	141	134	141	134	141	148
115°	249	251	249	251	249	246
125°	363	366	363	366	363	324
135°	472	472	472	472	472	365
145°	574	573	574	573	574	359
155°	656	657	656	657	656	302
165°	713	715	713	715	713	201
175°	740	744	740	744	740	70
180°	745	745	745	745	745	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2071.5	2070.8	2064.5	2063.2	2058.6	2052.9	2051.5	2041.2	2020.5	2010.8	2008.3
5°	2283.4	2299.6	2278.6	2274.5	2272.1	2245.5	2231.8	2215.6	2178.6	2156.9	2139.9
7.5°	2536.3	2538.2	2529.0	2521.6	2501.1	2477.9	2443.1	2406.0	2361.8	2315.8	2281.2
10°	2702.7	2709.2	2698.7	2697.0	2655.9	2630.1	2578.5	2535.0	2485.0	2429.3	2378.5
12.5°	2878.1	2869.1	2863.8	2829.2	2821.7	2774.6	2714.6	2669.8	2592.7	2528.7	2461.1
15°	3136.4	3118.8	3107.5	3059.9	3036.5	2971.1	2907.5	2858.3	2757.5	2661.6	2589.0
17.5°	3288.0	3305.8	3279.6	3260.1	3199.7	3153.9	3088.8	2985.6	2906.7	2787.5	2695.9
20°	3397.7	3399.3	3384.8	3364.7	3317.1	3259.0	3188.0	3075.1	2980.8	2862.4	2736.5
22.5°	3427.4	3427.7	3421.5	3402.7	3366.7	3319.6	3248.0	3153.9	3039.6	2910.7	2784.9
25°	3329.9	3326.7	3334.0	3355.0	3341.2	3326.7	3285.6	3215.5	3109.1	2972.7	2837.3
27.5°	2968.1	2990.3	3031.3	3082.9	3132.6	3170.5	3181.2	3166.7	3100.8	2988.8	2846.8
30°	2707.5	2734.9	2765.6	2817.1	2917.2	2974.4	3037.3	3084.8	3058.3	2968.8	2836.5
32.5°	2421.2	2427.9	2473.4	2532.0	2623.6	2733.8	2833.5	2930.0	2962.1	2915.2	2804.9
35°	1968.9	1980.2	2029.4	2087.5	2199.6	2334.2	2484.2	2618.0	2728.5	2772.8	2716.3
37.5°	1606.8	1639.2	1673.9	1736.3	1834.9	1956.2	2112.0	2285.2	2449.8	2560.1	2578.8
40°	1435.2	1455.3	1480.4	1527.9	1611.7	1731.1	1864.9	2063.3	2238.3	2396.3	2447.9
42.5°	1299.7	1311.5	1326.9	1369.9	1433.7	1552.5	1674.7	1849.2	2024.8	2213.7	2300.2
45°	1104.6	1116.7	1142.5	1167.5	1215.9	1298.1	1411.8	1555.3	1731.9	1914.1	2073.8
47.5°	963.7	971.4	986.7	1013.5	1054.6	1108.8	1201.3	1321.2	1484.9	1661.7	1831.9
50°	883.7	890.1	902.2	926.5	957.9	1006.2	1082.1	1194.1	1322.3	1500.5	1667.4
52.5°	820.5	823.0	831.9	848.4	873.3	914.0	976.2	1068.9	1188.1	1347.0	1513.3
55°	722.5	725.7	733.8	745.8	767.6	793.3	840.9	910.3	1014.3	1152.2	1296.5
57.5°	641.8	644.1	650.9	655.5	673.4	694.4	730.9	780.5	859.3	976.2	1105.1
60°	590.2	588.5	596.6	600.7	612.8	630.6	658.7	706.3	774.9	869.2	987.7
62.5°	539.9	537.7	544.4	549.8	556.6	571.8	594.9	632.2	687.7	773.1	875.5
65°	464.4	461.2	465.2	471.7	478.2	486.1	503.1	536.1	580.6	641.8	720.0
67.5°	388.6	392.0	392.6	395.9	399.6	410.6	422.1	445.6	476.9	525.8	592.2
70°	343.5	344.3	347.5	347.5	349.9	359.6	369.3	382.9	413.6	458.8	512.8
72.5°	298.3	301.7	300.4	303.0	304.8	311.2	318.3	331.3	357.5	391.0	436.7
75°	232.2	234.6	234.6	235.4	237.8	240.2	245.9	255.6	274.2	299.1	330.5
77.5°	169.4	169.7	170.8	173.7	173.7	177.5	181.8	189.5	198.6	215.8	235.0
80°	130.6	132.2	131.4	133.0	133.0	136.2	137.8	147.5	151.6	162.9	178.1
82.5°	95.8	97.4	97.3	99.5	100.8	101.4	103.7	107.6	111.6	121.6	127.8
85°	48.4	50.0	48.4	50.0	52.4	53.2	55.6	56.5	59.7	62.1	67.8
87.5°	17.7	19.5	19.5	20.1	21.3	21.8	22.3	21.5	23.9	24.4	26.9
90°	17.3	17.1	16.8	16.6	16.3	15.8	14.9	14.2	13.4	12.6	11.6
92.5°	25.5	25.4	25.2	25.1	24.9	24.6	24.2	23.7	23.2	22.8	22.1
95°	45.5	45.5	45.5	45.5	45.5	45.3	44.9	44.5	44.1	43.7	42.9
97.5°	71.3	71.3	71.3	71.3	71.3	71.1	70.6	70.2	69.7	69.3	68.2
100°	89.3	89.3	89.3	89.3	89.3	89.2	88.9	88.7	88.4	88.2	86.9
102.5°	109.6	109.5	109.4	109.3	109.2	108.9	108.6	108.2	107.9	107.4	106.4
105°	140.6	140.2	139.8	139.4	139.0	138.7	138.3	137.8	137.4	137.0	136.5
107.5°	170.8	170.8	170.8	170.8	170.9	170.7	170.3	170.0	169.6	169.3	169.2
110°	192.4	192.0	191.6	191.3	190.9	190.8	191.1	191.3	191.6	191.8	192.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	214.5	214.4	214.3	214.3	214.2	214.2	214.2	214.3	214.3	214.4	214.6
115°	248.8	248.9	249.0	249.2	249.3	249.4	249.6	249.7	249.8	249.9	250.2
117.5°	281.6	281.8	282.1	282.3	282.6	282.9	283.4	283.8	284.2	284.7	284.8
120°	306.4	306.2	305.9	305.7	305.4	305.6	306.2	306.9	307.5	308.1	308.5
122.5°	327.2	327.6	328.1	328.5	329.0	329.4	329.9	330.3	330.7	331.2	331.3
125°	362.8	363.1	363.3	363.7	363.9	364.2	364.4	364.7	364.9	365.2	365.3
127.5°	396.0	396.2	396.4	396.6	396.8	397.0	397.3	397.5	397.8	398.0	398.2
130°	417.6	418.1	418.6	419.1	419.6	420.0	420.3	420.5	420.8	421.0	421.0
132.5°	440.6	440.8	441.0	441.2	441.4	441.7	441.9	442.2	442.4	442.7	442.8
135°	472.3	472.7	473.0	473.4	473.8	474.1	474.4	474.6	474.9	475.1	475.1
137.5°	505.6	505.5	505.4	505.3	505.2	505.4	505.7	506.0	506.4	506.8	506.5
140°	525.8	526.0	526.1	526.2	526.3	526.5	526.6	526.7	526.8	527.0	527.0
142.5°	546.1	546.1	546.2	546.2	546.2	546.2	546.3	546.3	546.3	546.3	546.4
145°	573.7	574.0	574.4	574.8	575.2	575.4	575.6	575.7	575.8	575.9	575.8
147.5°	601.6	601.7	601.8	602.0	602.1	602.2	602.3	602.4	602.5	602.6	602.7
150°	618.6	618.7	618.8	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	634.3	634.6	634.9	635.3	635.6	635.6	635.3	635.0	634.7	634.4	634.3
155°	656.0	656.5	657.0	657.5	658.1	658.1	657.5	657.0	656.5	656.0	656.2
157.5°	675.5	675.9	676.4	676.8	677.2	677.3	676.9	676.5	676.1	675.7	675.8
160°	686.6	687.2	687.8	688.5	689.1	689.2	688.8	688.5	688.1	687.7	687.8
162.5°	698.1	698.7	699.3	700.0	700.6	700.6	699.9	699.2	698.5	697.8	698.0
165°	713.1	713.6	714.1	714.6	715.1	715.0	714.2	713.5	712.7	712.0	712.2
167.5°	723.8	724.6	725.4	726.2	726.9	727.0	726.2	725.4	724.7	723.9	723.9
170°	729.7	730.6	731.5	732.5	733.4	733.4	732.7	731.8	731.1	730.3	730.2
172.5°	734.9	735.7	736.6	737.5	738.4	738.4	737.6	736.7	735.8	735.0	734.9
175°	740.1	741.0	741.9	742.9	743.7	743.7	742.9	741.9	741.0	740.1	740.2
177.5°	742.9	743.7	744.6	745.4	746.2	746.2	745.5	744.8	744.1	743.4	743.4
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2008.9	1999.9	1993.5	1988.3	1974.1	1965.7	1959.2	1950.3	1940.0	1928.9	1915.4
5°	2122.9	2095.6	2075.4	2044.8	2015.7	1991.6	1966.5	1944.0	1916.5	1886.7	1864.9
7.5°	2242.8	2202.0	2149.7	2104.5	2053.5	2009.1	1969.4	1928.8	1886.5	1845.6	1808.1
10°	2318.9	2266.4	2208.4	2139.9	2075.4	2018.1	1964.9	1913.3	1863.3	1813.3	1770.6
12.5°	2400.9	2335.5	2249.7	2169.6	2097.3	2020.7	1956.5	1893.3	1833.0	1780.5	1730.6
15°	2510.8	2416.4	2317.2	2210.0	2114.9	2025.4	1937.5	1857.6	1790.0	1720.6	1672.2
17.5°	2578.4	2461.6	2348.2	2236.1	2121.0	2008.1	1913.3	1821.3	1736.5	1667.6	1606.6
20°	2622.8	2506.8	2365.6	2253.6	2116.5	2000.4	1890.8	1788.4	1699.7	1626.3	1563.4
22.5°	2661.6	2527.4	2386.3	2238.8	2102.3	1979.1	1859.2	1756.1	1665.5	1588.2	1527.9
25°	2682.5	2528.5	2375.3	2228.6	2073.8	1927.8	1819.0	1698.1	1601.2	1519.8	1455.3
27.5°	2684.8	2520.1	2346.8	2183.7	2024.0	1888.0	1750.6	1642.5	1542.1	1456.0	1394.1
30°	2677.7	2506.0	2319.7	2143.1	1982.7	1835.1	1715.8	1598.1	1495.7	1410.2	1345.6
32.5°	2655.1	2476.3	2284.8	2098.0	1931.7	1787.4	1664.2	1552.3	1452.5	1368.3	1300.5
35°	2589.8	2413.2	2209.2	2014.9	1844.8	1698.9	1587.6	1473.9	1373.9	1294.1	1228.8
37.5°	2487.7	2328.0	2120.7	1919.7	1752.5	1606.0	1495.7	1392.9	1302.8	1221.7	1154.8
40°	2398.7	2258.5	2050.4	1854.4	1673.9	1534.4	1431.2	1336.9	1247.3	1170.7	1107.0
42.5°	2296.1	2173.9	1982.1	1774.4	1600.3	1460.2	1359.6	1274.9	1190.5	1119.7	1056.1
45°	2113.2	2032.7	1852.1	1660.1	1478.7	1346.5	1250.5	1176.4	1105.4	1036.1	982.9
47.5°	1903.0	1863.0	1710.9	1528.7	1356.5	1226.2	1143.0	1074.5	1012.2	953.5	906.6
50°	1761.7	1742.4	1610.9	1435.2	1270.7	1148.1	1064.3	1005.4	952.2	900.6	856.3
52.5°	1622.4	1621.7	1503.3	1342.3	1190.1	1072.1	988.9	933.8	887.8	845.8	806.0
55°	1409.4	1432.0	1339.3	1195.7	1059.4	953.0	878.1	828.9	796.6	761.9	732.2
57.5°	1213.8	1251.2	1174.8	1048.3	934.6	836.6	771.3	734.4	700.0	679.0	657.3
60°	1086.1	1121.6	1061.9	955.4	848.2	764.4	702.3	669.2	639.3	624.9	609.6
62.5°	972.5	1004.1	960.0	861.3	768.2	687.6	635.2	603.4	583.3	567.4	557.3
65°	810.3	837.0	799.0	727.3	647.4	583.0	540.2	515.2	495.8	489.4	478.2
67.5°	655.0	679.2	658.7	597.7	533.7	484.9	451.5	427.5	416.1	410.4	402.3
70°	562.8	586.9	565.2	512.0	462.8	421.7	390.2	376.6	364.5	362.0	350.7
72.5°	484.7	501.2	479.4	437.8	395.8	361.0	336.7	322.3	316.1	311.7	305.6
75°	363.7	378.2	363.7	331.3	301.5	277.4	256.4	250.7	243.5	241.1	237.0
77.5°	257.4	269.9	258.8	238.6	216.4	197.7	186.4	179.2	177.5	173.4	175.3
80°	196.7	204.8	194.3	180.6	162.9	150.0	141.9	137.8	133.0	131.4	134.6
82.5°	141.3	144.8	139.5	130.3	117.0	108.7	103.2	98.6	97.6	97.9	97.9
85°	73.4	72.6	71.8	63.7	59.7	54.0	50.8	50.0	49.2	50.8	52.4
87.5°	26.7	27.1	26.3	23.4	21.2	19.0	18.1	17.1	18.1	19.0	19.9
90°	10.6	9.6	8.6	7.4	6.0	4.5	3.1	1.7	3.1	4.5	6.0
92.5°	21.4	20.7	19.9	18.8	17.2	15.6	13.9	12.3	13.9	15.6	17.2
95°	42.0	41.1	40.2	39.2	38.0	36.9	35.7	34.5	35.7	36.9	38.0
97.5°	67.2	66.0	65.0	64.0	63.1	62.2	61.3	60.4	61.3	62.2	63.1
100°	85.8	84.6	83.5	82.7	82.2	81.7	81.2	80.6	81.2	81.7	82.2
102.5°	105.3	104.3	103.3	102.6	102.4	102.2	102.0	101.8	102.0	102.2	102.4
105°	136.0	135.5	135.0	134.7	134.6	134.4	134.3	134.2	134.3	134.4	134.6
107.5°	169.1	169.0	169.0	168.8	168.6	168.4	168.3	168.1	168.3	168.4	168.6
110°	192.1	192.2	192.3	192.3	192.0	191.8	191.5	191.3	191.5	191.8	192.0



TEST NUMBER: P332680-840

CATALOG NUMBER: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	214.8	215.1	215.3	215.4	215.3	215.3	215.2	215.2	215.2	215.3	215.3
115°	250.4	250.7	251.0	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2
117.5°	285.0	285.2	285.4	285.4	285.3	285.2	285.1	285.0	285.1	285.2	285.3
120°	308.9	309.3	309.7	309.6	309.1	308.6	308.1	307.6	308.1	308.6	309.1
122.5°	331.5	331.7	331.9	331.8	331.6	331.4	331.2	331.0	331.2	331.4	331.6
125°	365.5	365.6	365.7	365.8	365.8	365.8	365.8	365.8	365.8	365.8	365.8
127.5°	398.4	398.6	398.8	398.7	398.4	398.0	397.6	397.2	397.6	398.0	398.4
130°	421.0	421.0	421.0	420.8	420.5	420.1	419.7	419.3	419.7	420.1	420.5
132.5°	442.9	443.0	443.1	443.0	442.7	442.4	442.2	441.9	442.2	442.4	442.7
135°	475.1	475.1	475.1	474.8	474.0	473.2	472.5	471.7	472.5	473.2	474.0
137.5°	506.3	506.1	505.9	505.6	505.2	504.9	504.5	504.2	504.5	504.9	505.2
140°	527.0	527.0	527.0	526.8	526.6	526.3	526.1	525.8	526.1	526.3	526.6
142.5°	546.5	546.6	546.7	546.7	546.4	546.2	545.9	545.6	545.9	546.2	546.4
145°	575.7	575.6	575.4	575.1	574.6	574.1	573.6	573.1	573.6	574.1	574.6
147.5°	602.8	602.9	603.0	602.8	602.1	601.5	600.9	600.3	600.9	601.5	602.1
150°	619.1	619.1	619.1	618.9	618.4	617.9	617.4	616.8	617.4	617.9	618.4
152.5°	634.2	634.1	634.0	633.8	633.5	633.2	632.9	632.6	632.9	633.2	633.5
155°	656.3	656.4	656.5	656.6	656.6	656.6	656.6	656.6	656.6	656.6	656.6
157.5°	675.8	675.8	675.8	676.0	676.2	676.4	676.6	676.9	676.6	676.4	676.2
160°	688.0	688.1	688.2	688.3	688.5	688.6	688.7	688.8	688.7	688.6	688.5
162.5°	698.1	698.2	698.3	698.6	698.9	699.2	699.6	699.9	699.6	699.2	698.9
165°	712.5	712.7	713.0	713.3	713.7	714.0	714.4	714.8	714.4	714.0	713.7
167.5°	723.9	723.8	723.8	724.1	724.6	725.1	725.7	726.2	725.7	725.1	724.6
170°	730.0	729.9	729.8	730.0	730.7	731.3	732.1	732.7	732.1	731.3	730.7
172.5°	734.9	734.9	734.9	735.1	735.7	736.2	736.7	737.2	736.7	736.2	735.7
175°	740.4	740.5	740.6	741.0	741.6	742.4	743.0	743.6	743.0	742.4	741.6
177.5°	743.4	743.4	743.4	743.6	744.2	744.7	745.2	745.7	745.2	744.7	744.2
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332680-840

CATALOG NUMBER: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1908.9	1903.2	1894.8	1883.2	1873.5	1863.2	1860.6	1856.7	1864.4	1858.1	1856.0
5°	1846.4	1829.5	1807.7	1782.7	1768.2	1747.3	1743.2	1735.2	1727.1	1726.3	1718.2
7.5°	1780.1	1755.2	1726.8	1701.2	1677.7	1654.9	1639.8	1636.6	1624.7	1617.7	1609.6
10°	1737.6	1706.9	1673.9	1649.7	1622.2	1598.1	1581.1	1571.5	1563.4	1554.5	1546.5
12.5°	1687.3	1654.7	1627.4	1601.2	1568.7	1550.3	1522.5	1505.7	1504.1	1504.2	1483.3
15°	1628.7	1596.5	1554.5	1517.4	1499.6	1464.2	1448.9	1429.6	1417.4	1405.3	1395.7
17.5°	1561.8	1521.7	1488.8	1446.3	1412.5	1384.2	1364.1	1352.5	1334.2	1317.2	1304.7
20°	1519.8	1477.1	1442.5	1397.2	1360.2	1325.5	1308.6	1292.5	1278.8	1264.3	1250.5
22.5°	1477.2	1432.6	1390.2	1346.4	1311.8	1275.3	1258.9	1237.0	1224.0	1215.9	1202.1
25°	1410.2	1361.8	1313.4	1271.5	1236.1	1203.8	1182.0	1165.1	1150.5	1144.1	1135.3
27.5°	1337.3	1289.3	1242.5	1194.9	1154.6	1131.3	1113.8	1101.1	1092.7	1084.1	1080.2
30°	1290.9	1240.9	1190.9	1146.5	1109.4	1086.1	1070.0	1061.1	1054.6	1050.6	1046.5
32.5°	1243.7	1194.5	1141.9	1101.4	1068.1	1047.3	1035.1	1026.2	1023.0	1021.6	1020.2
35°	1168.3	1118.3	1070.0	1033.7	1002.2	994.1	983.7	978.9	977.2	982.9	985.3
37.5°	1095.3	1048.8	1004.3	969.2	948.6	936.8	933.2	933.3	939.2	944.1	950.0
40°	1048.1	1003.0	961.1	930.5	911.1	903.8	902.2	906.3	912.7	918.4	924.8
42.5°	1002.4	957.9	919.8	891.1	877.6	870.9	871.9	876.0	884.9	891.9	901.6
45°	931.3	894.1	857.1	833.7	822.4	824.0	824.0	831.3	840.1	850.6	861.1
47.5°	864.3	827.0	796.5	776.8	770.9	769.5	774.1	783.6	796.3	809.2	823.8
50°	819.2	783.8	757.1	739.3	733.0	735.4	741.7	750.6	766.0	782.1	797.4
52.5°	773.4	741.1	716.5	700.0	695.5	699.8	706.3	720.3	733.8	751.1	769.7
55°	702.3	674.9	655.5	643.4	641.8	644.2	651.5	666.8	686.1	707.9	725.7
57.5°	631.5	608.5	590.9	582.5	583.3	585.5	597.4	615.7	636.3	659.5	682.5
60°	583.7	562.8	548.3	541.8	542.6	547.4	562.0	579.0	604.7	627.3	651.5
62.5°	538.6	520.2	506.3	500.6	499.4	510.1	523.9	541.5	567.3	592.5	618.5
65°	466.1	451.5	440.2	437.0	439.4	447.5	465.2	488.6	510.4	536.9	564.4
67.5°	395.1	383.1	375.4	376.9	379.8	391.7	406.6	426.7	451.4	479.0	506.0
70°	349.9	338.6	332.1	333.0	337.8	352.3	365.3	385.4	412.0	440.2	462.8
72.5°	303.5	296.1	290.2	293.7	298.5	308.5	324.6	344.8	368.2	394.5	418.3
75°	233.0	233.0	229.7	232.2	239.4	249.1	261.3	282.2	305.6	326.6	345.9
77.5°	172.9	171.1	173.2	176.1	180.3	191.8	205.6	220.6	238.2	259.1	275.1
80°	132.2	133.0	137.0	141.9	143.5	152.4	166.9	180.6	194.3	212.1	227.4
82.5°	99.4	100.2	102.2	108.4	110.0	119.5	128.9	142.6	155.0	166.9	179.7
85°	54.0	54.0	58.1	60.5	64.5	71.0	76.5	84.6	95.9	104.0	116.1
87.5°	22.1	22.3	25.1	26.7	28.8	32.2	33.6	40.9	43.6	47.1	52.9
90°	7.4	8.6	9.6	10.6	11.6	12.6	13.4	14.2	14.9	15.8	16.3
92.5°	18.8	19.9	20.7	21.4	22.1	22.8	23.2	23.7	24.2	24.6	24.9
95°	39.2	40.2	41.1	42.0	42.9	43.7	44.1	44.5	44.9	45.3	45.5
97.5°	64.0	65.0	66.0	67.2	68.2	69.3	69.7	70.2	70.6	71.1	71.3
100°	82.7	83.5	84.6	85.8	86.9	88.2	88.4	88.7	88.9	89.2	89.3
102.5°	102.6	103.3	104.3	105.3	106.4	107.4	107.9	108.2	108.6	108.9	109.2
105°	134.7	135.0	135.5	136.0	136.5	137.0	137.4	137.8	138.3	138.7	139.0
107.5°	168.8	169.0	169.0	169.1	169.2	169.3	169.6	170.0	170.3	170.7	170.9
110°	192.3	192.3	192.2	192.1	192.0	191.8	191.6	191.3	191.1	190.8	190.9



TEST NUMBER: P332680-840

CATALOG NUMBER: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.4	215.3	215.1	214.8	214.6	214.4	214.3	214.3	214.2	214.2	214.2
115°	251.2	251.0	250.7	250.4	250.2	249.9	249.8	249.7	249.6	249.4	249.3
117.5°	285.4	285.4	285.2	285.0	284.8	284.7	284.2	283.8	283.4	282.9	282.6
120°	309.6	309.7	309.3	308.9	308.5	308.1	307.5	306.9	306.2	305.6	305.4
122.5°	331.8	331.9	331.7	331.5	331.3	331.2	330.7	330.3	329.9	329.4	329.0
125°	365.8	365.7	365.6	365.5	365.3	365.2	364.9	364.7	364.4	364.2	363.9
127.5°	398.7	398.8	398.6	398.4	398.2	398.0	397.8	397.5	397.3	397.0	396.8
130°	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5	420.3	420.0	419.6
132.5°	443.0	443.1	443.0	442.9	442.8	442.7	442.4	442.2	441.9	441.7	441.4
135°	474.8	475.1	475.1	475.1	475.1	475.1	474.9	474.6	474.4	474.1	473.8
137.5°	505.6	505.9	506.1	506.3	506.5	506.8	506.4	506.0	505.7	505.4	505.2
140°	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.7	526.6	526.5	526.3
142.5°	546.7	546.7	546.6	546.5	546.4	546.3	546.3	546.3	546.3	546.2	546.2
145°	575.1	575.4	575.6	575.7	575.8	575.9	575.8	575.7	575.6	575.4	575.2
147.5°	602.8	603.0	602.9	602.8	602.7	602.6	602.5	602.4	602.3	602.2	602.1
150°	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	633.8	634.0	634.1	634.2	634.3	634.4	634.7	635.0	635.3	635.6	635.6
155°	656.6	656.5	656.4	656.3	656.2	656.0	656.5	657.0	657.5	658.1	658.1
157.5°	676.0	675.8	675.8	675.8	675.8	675.7	676.1	676.5	676.9	677.3	677.2
160°	688.3	688.2	688.1	688.0	687.8	687.7	688.1	688.5	688.8	689.2	689.1
162.5°	698.6	698.3	698.2	698.1	698.0	697.8	698.5	699.2	699.9	700.6	700.6
165°	713.3	713.0	712.7	712.5	712.2	712.0	712.7	713.5	714.2	715.0	715.1
167.5°	724.1	723.8	723.8	723.9	723.9	723.9	724.7	725.4	726.2	727.0	726.9
170°	730.0	729.8	729.9	730.0	730.2	730.3	731.1	731.8	732.7	733.4	733.4
172.5°	735.1	734.9	734.9	734.9	734.9	735.0	735.8	736.7	737.6	738.4	738.4
175°	741.0	740.6	740.5	740.4	740.2	740.1	741.0	741.9	742.9	743.7	743.7
177.5°	743.6	743.4	743.4	743.4	743.4	743.4	744.1	744.8	745.5	746.2	746.2
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332680-840

CATALOG NUMBER: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1854.8	1853.5	1849.0	1848.4	1849.0	1853.5	1854.8	1856.0	1858.1	1864.4	1856.7
5°	1713.3	1709.3	1706.9	1715.8	1706.9	1709.3	1713.3	1718.2	1726.3	1727.1	1735.2
7.5°	1606.8	1603.6	1596.5	1594.2	1596.5	1603.6	1606.8	1609.6	1617.7	1624.7	1636.6
10°	1538.4	1535.2	1528.7	1527.1	1528.7	1535.2	1538.4	1546.5	1554.5	1563.4	1571.5
12.5°	1472.6	1466.1	1464.9	1466.5	1464.9	1466.1	1472.6	1483.3	1504.2	1504.1	1505.7
15°	1385.2	1382.0	1373.1	1375.5	1373.1	1382.0	1385.2	1395.7	1405.3	1417.4	1429.6
17.5°	1299.1	1295.3	1284.4	1293.9	1284.4	1295.3	1299.1	1304.7	1317.2	1334.2	1352.5
20°	1244.9	1238.5	1232.8	1232.0	1232.8	1238.5	1244.9	1250.5	1264.3	1278.8	1292.5
22.5°	1193.3	1187.5	1187.0	1181.7	1187.0	1187.5	1193.3	1202.1	1215.9	1224.0	1237.0
25°	1128.8	1123.2	1121.6	1117.5	1121.6	1123.2	1128.8	1135.3	1144.1	1150.5	1165.1
27.5°	1079.3	1076.5	1073.7	1074.9	1073.7	1076.5	1079.3	1080.2	1084.1	1092.7	1101.1
30°	1048.9	1048.1	1046.5	1046.5	1046.5	1048.1	1048.9	1046.5	1050.6	1054.6	1061.1
32.5°	1023.8	1023.7	1024.6	1024.6	1024.6	1023.7	1023.8	1020.2	1021.6	1023.0	1026.2
35°	988.6	990.9	992.5	990.1	992.5	990.9	988.6	985.3	982.9	977.2	978.9
37.5°	956.5	959.0	961.3	964.0	961.3	959.0	956.5	950.0	944.1	939.2	933.3
40°	932.1	937.8	939.3	943.3	939.3	937.8	932.1	924.8	918.4	912.7	906.3
42.5°	908.9	915.1	919.3	920.1	919.3	915.1	908.9	901.6	891.9	884.9	876.0
45°	873.2	879.7	885.3	885.3	885.3	879.7	873.2	861.1	850.6	840.1	831.3
47.5°	836.3	845.7	851.3	852.7	851.3	845.7	836.3	823.8	809.2	796.3	783.6
50°	811.1	822.4	828.1	832.1	828.1	822.4	811.1	797.4	782.1	766.0	750.6
52.5°	786.6	797.9	805.5	807.6	805.5	797.9	786.6	769.7	751.1	733.8	720.3
55°	744.2	760.3	769.2	772.4	769.2	760.3	744.2	725.7	707.9	686.1	666.8
57.5°	704.2	719.0	729.3	731.7	729.3	719.0	704.2	682.5	659.5	636.3	615.7
60°	673.3	689.3	702.3	704.7	702.3	689.3	673.3	651.5	627.3	604.7	579.0
62.5°	641.7	658.4	670.0	676.3	670.0	658.4	641.7	618.5	592.5	567.3	541.5
65°	586.9	603.9	615.2	617.6	615.2	603.9	586.9	564.4	536.9	510.4	488.6
67.5°	527.4	544.2	551.7	556.3	551.7	544.2	527.4	506.0	479.0	451.4	426.7
70°	485.3	499.1	507.2	511.2	507.2	499.1	485.3	462.8	440.2	412.0	385.4
72.5°	437.7	452.0	461.4	462.1	461.4	452.0	437.7	418.3	394.5	368.2	344.8
75°	364.5	377.4	382.1	382.1	382.1	377.4	364.5	345.9	326.6	305.6	282.2
77.5°	288.5	295.1	301.2	302.6	301.2	295.1	288.5	275.1	259.1	238.2	220.6
80°	239.4	243.5	248.3	248.3	248.3	243.5	239.4	227.4	212.1	194.3	180.6
82.5°	189.1	192.6	197.4	196.7	197.4	192.6	189.1	179.7	166.9	155.0	142.6
85°	114.5	121.8	121.0	119.4	121.0	121.8	114.5	116.1	104.0	95.9	84.6
87.5°	54.9	55.6	57.6	59.0	57.6	55.6	54.9	52.9	47.1	43.6	40.9
90°	16.6	16.8	17.1	17.3	17.1	16.8	16.6	16.3	15.8	14.9	14.2
92.5°	25.1	25.2	25.4	25.5	25.4	25.2	25.1	24.9	24.6	24.2	23.7
95°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.3	44.9	44.5
97.5°	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.1	70.6	70.2
100°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.2	88.9	88.7
102.5°	109.3	109.4	109.5	109.6	109.5	109.4	109.3	109.2	108.9	108.6	108.2
105°	139.4	139.8	140.2	140.6	140.2	139.8	139.4	139.0	138.7	138.3	137.8
107.5°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.9	170.7	170.3	170.0
110°	191.3	191.6	192.0	192.4	192.0	191.6	191.3	190.9	190.8	191.1	191.3



TEST NUMBER: P332680-840

CATALOG NUMBER: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	214.3	214.3	214.4	214.5	214.4	214.3	214.3	214.2	214.2	214.2	214.3
115°	249.2	249.0	248.9	248.8	248.9	249.0	249.2	249.3	249.4	249.6	249.7
117.5°	282.3	282.1	281.8	281.6	281.8	282.1	282.3	282.6	282.9	283.4	283.8
120°	305.7	305.9	306.2	306.4	306.2	305.9	305.7	305.4	305.6	306.2	306.9
122.5°	328.5	328.1	327.6	327.2	327.6	328.1	328.5	329.0	329.4	329.9	330.3
125°	363.7	363.3	363.1	362.8	363.1	363.3	363.7	363.9	364.2	364.4	364.7
127.5°	396.6	396.4	396.2	396.0	396.2	396.4	396.6	396.8	397.0	397.3	397.5
130°	419.1	418.6	418.1	417.6	418.1	418.6	419.1	419.6	420.0	420.3	420.5
132.5°	441.2	441.0	440.8	440.6	440.8	441.0	441.2	441.4	441.7	441.9	442.2
135°	473.4	473.0	472.7	472.3	472.7	473.0	473.4	473.8	474.1	474.4	474.6
137.5°	505.3	505.4	505.5	505.6	505.5	505.4	505.3	505.2	505.4	505.7	506.0
140°	526.2	526.1	526.0	525.8	526.0	526.1	526.2	526.3	526.5	526.6	526.7
142.5°	546.2	546.2	546.1	546.1	546.1	546.2	546.2	546.2	546.2	546.3	546.3
145°	574.8	574.4	574.0	573.7	574.0	574.4	574.8	575.2	575.4	575.6	575.7
147.5°	602.0	601.8	601.7	601.6	601.7	601.8	602.0	602.1	602.2	602.3	602.4
150°	618.9	618.8	618.7	618.6	618.7	618.8	618.9	619.1	619.1	619.1	619.1
152.5°	635.3	634.9	634.6	634.3	634.6	634.9	635.3	635.6	635.6	635.3	635.0
155°	657.5	657.0	656.5	656.0	656.5	657.0	657.5	658.1	658.1	657.5	657.0
157.5°	676.8	676.4	675.9	675.5	675.9	676.4	676.8	677.2	677.3	676.9	676.5
160°	688.5	687.8	687.2	686.6	687.2	687.8	688.5	689.1	689.2	688.8	688.5
162.5°	700.0	699.3	698.7	698.1	698.7	699.3	700.0	700.6	700.6	699.9	699.2
165°	714.6	714.1	713.6	713.1	713.6	714.1	714.6	715.1	715.0	714.2	713.5
167.5°	726.2	725.4	724.6	723.8	724.6	725.4	726.2	726.9	727.0	726.2	725.4
170°	732.5	731.5	730.6	729.7	730.6	731.5	732.5	733.4	733.4	732.7	731.8
172.5°	737.5	736.6	735.7	734.9	735.7	736.6	737.5	738.4	738.4	737.6	736.7
175°	742.9	741.9	741.0	740.1	741.0	741.9	742.9	743.7	743.7	742.9	741.9
177.5°	745.4	744.6	743.7	742.9	743.7	744.6	745.4	746.2	746.2	745.5	744.8
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332680-840

CATALOG NUMBER: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1860.6	1863.2	1873.5	1883.2	1894.8	1903.2	1908.9	1915.4	1928.9	1940.0	1950.3
5°	1743.2	1747.3	1768.2	1782.7	1807.7	1829.5	1846.4	1864.9	1886.7	1916.5	1944.0
7.5°	1639.8	1654.9	1677.7	1701.2	1726.8	1755.2	1780.1	1808.1	1845.6	1886.5	1928.8
10°	1581.1	1598.1	1622.2	1649.7	1673.9	1706.9	1737.6	1770.6	1813.3	1863.3	1913.3
12.5°	1522.5	1550.3	1568.7	1601.2	1627.4	1654.7	1687.3	1730.6	1780.5	1833.0	1893.3
15°	1448.9	1464.2	1499.6	1517.4	1554.5	1596.5	1628.7	1672.2	1720.6	1790.0	1857.6
17.5°	1364.1	1384.2	1412.5	1446.3	1488.8	1521.7	1561.8	1606.6	1667.6	1736.5	1821.3
20°	1308.6	1325.5	1360.2	1397.2	1442.5	1477.1	1519.8	1563.4	1626.3	1699.7	1788.4
22.5°	1258.9	1275.3	1311.8	1346.4	1390.2	1432.6	1477.2	1527.9	1588.2	1665.5	1756.1
25°	1182.0	1203.8	1236.1	1271.5	1313.4	1361.8	1410.2	1455.3	1519.8	1601.2	1698.1
27.5°	1113.8	1131.3	1154.6	1194.9	1242.5	1289.3	1337.3	1394.1	1456.0	1542.1	1642.5
30°	1070.0	1086.1	1109.4	1146.5	1190.9	1240.9	1290.9	1345.6	1410.2	1495.7	1598.1
32.5°	1035.1	1047.3	1068.1	1101.4	1141.9	1194.5	1243.7	1300.5	1368.3	1452.5	1552.3
35°	983.7	994.1	1002.2	1033.7	1070.0	1118.3	1168.3	1228.8	1294.1	1373.9	1473.9
37.5°	933.2	936.8	948.6	969.2	1004.3	1048.8	1095.3	1154.8	1221.7	1302.8	1392.9
40°	902.2	903.8	911.1	930.5	961.1	1003.0	1048.1	1107.0	1170.7	1247.3	1336.9
42.5°	871.9	870.9	877.6	891.1	919.8	957.9	1002.4	1056.1	1119.7	1190.5	1274.9
45°	824.0	824.0	822.4	833.7	857.1	894.1	931.3	982.9	1036.1	1105.4	1176.4
47.5°	774.1	769.5	770.9	776.8	796.5	827.0	864.3	906.6	953.5	1012.2	1074.5
50°	741.7	735.4	733.0	739.3	757.1	783.8	819.2	856.3	900.6	952.2	1005.4
52.5°	706.3	699.8	695.5	700.0	716.5	741.1	773.4	806.0	845.8	887.8	933.8
55°	651.5	644.2	641.8	643.4	655.5	674.9	702.3	732.2	761.9	796.6	828.9
57.5°	597.4	585.5	583.3	582.5	590.9	608.5	631.5	657.3	679.0	700.0	734.4
60°	562.0	547.4	542.6	541.8	548.3	562.8	583.7	609.6	624.9	639.3	669.2
62.5°	523.9	510.1	499.4	500.6	506.3	520.2	538.6	557.3	567.4	583.3	603.4
65°	465.2	447.5	439.4	437.0	440.2	451.5	466.1	478.2	489.4	495.8	515.2
67.5°	406.6	391.7	379.8	376.9	375.4	383.1	395.1	402.3	410.4	416.1	427.5
70°	365.3	352.3	337.8	333.0	332.1	338.6	349.9	350.7	362.0	364.5	376.6
72.5°	324.6	308.5	298.5	293.7	290.2	296.1	303.5	305.6	311.7	316.1	322.3
75°	261.3	249.1	239.4	232.2	229.7	233.0	233.0	237.0	241.1	243.5	250.7
77.5°	205.6	191.8	180.3	176.1	173.2	171.1	172.9	175.3	173.4	177.5	179.2
80°	166.9	152.4	143.5	141.9	137.0	133.0	132.2	134.6	131.4	133.0	137.8
82.5°	128.9	119.5	110.0	108.4	102.2	100.2	99.4	97.9	97.9	97.6	98.6
85°	76.5	71.0	64.5	60.5	58.1	54.0	54.0	52.4	50.8	49.2	50.0
87.5°	33.6	32.2	28.8	26.7	25.1	22.3	22.1	19.9	19.0	18.1	17.1
90°	13.4	12.6	11.6	10.6	9.6	8.6	7.4	6.0	4.5	3.1	1.7
92.5°	23.2	22.8	22.1	21.4	20.7	19.9	18.8	17.2	15.6	13.9	12.3
95°	44.1	43.7	42.9	42.0	41.1	40.2	39.2	38.0	36.9	35.7	34.5
97.5°	69.7	69.3	68.2	67.2	66.0	65.0	64.0	63.1	62.2	61.3	60.4
100°	88.4	88.2	86.9	85.8	84.6	83.5	82.7	82.2	81.7	81.2	80.6
102.5°	107.9	107.4	106.4	105.3	104.3	103.3	102.6	102.4	102.2	102.0	101.8
105°	137.4	137.0	136.5	136.0	135.5	135.0	134.7	134.6	134.4	134.3	134.2
107.5°	169.6	169.3	169.2	169.1	169.0	169.0	168.8	168.6	168.4	168.3	168.1
110°	191.6	191.8	192.0	192.1	192.2	192.3	192.3	192.0	191.8	191.5	191.3



TEST NUMBER: P332680-840

CATALOG NUMBER: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	214.3	214.4	214.6	214.8	215.1	215.3	215.4	215.3	215.3	215.2	215.2
115°	249.8	249.9	250.2	250.4	250.7	251.0	251.2	251.2	251.2	251.2	251.2
117.5°	284.2	284.7	284.8	285.0	285.2	285.4	285.4	285.3	285.2	285.1	285.0
120°	307.5	308.1	308.5	308.9	309.3	309.7	309.6	309.1	308.6	308.1	307.6
122.5°	330.7	331.2	331.3	331.5	331.7	331.9	331.8	331.6	331.4	331.2	331.0
125°	364.9	365.2	365.3	365.5	365.6	365.7	365.8	365.8	365.8	365.8	365.8
127.5°	397.8	398.0	398.2	398.4	398.6	398.8	398.7	398.4	398.0	397.6	397.2
130°	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5	420.1	419.7	419.3
132.5°	442.4	442.7	442.8	442.9	443.0	443.1	443.0	442.7	442.4	442.2	441.9
135°	474.9	475.1	475.1	475.1	475.1	475.1	474.8	474.0	473.2	472.5	471.7
137.5°	506.4	506.8	506.5	506.3	506.1	505.9	505.6	505.2	504.9	504.5	504.2
140°	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.6	526.3	526.1	525.8
142.5°	546.3	546.3	546.4	546.5	546.6	546.7	546.7	546.4	546.2	545.9	545.6
145°	575.8	575.9	575.8	575.7	575.6	575.4	575.1	574.6	574.1	573.6	573.1
147.5°	602.5	602.6	602.7	602.8	602.9	603.0	602.8	602.1	601.5	600.9	600.3
150°	619.1	619.1	619.1	619.1	619.1	619.1	618.9	618.4	617.9	617.4	616.8
152.5°	634.7	634.4	634.3	634.2	634.1	634.0	633.8	633.5	633.2	632.9	632.6
155°	656.5	656.0	656.2	656.3	656.4	656.5	656.6	656.6	656.6	656.6	656.6
157.5°	676.1	675.7	675.8	675.8	675.8	675.8	676.0	676.2	676.4	676.6	676.9
160°	688.1	687.7	687.8	688.0	688.1	688.2	688.3	688.5	688.6	688.7	688.8
162.5°	698.5	697.8	698.0	698.1	698.2	698.3	698.6	698.9	699.2	699.6	699.9
165°	712.7	712.0	712.2	712.5	712.7	713.0	713.3	713.7	714.0	714.4	714.8
167.5°	724.7	723.9	723.9	723.9	723.8	723.8	724.1	724.6	725.1	725.7	726.2
170°	731.1	730.3	730.2	730.0	729.9	729.8	730.0	730.7	731.3	732.1	732.7
172.5°	735.8	735.0	734.9	734.9	734.9	734.9	735.1	735.7	736.2	736.7	737.2
175°	741.0	740.1	740.2	740.4	740.5	740.6	741.0	741.6	742.4	743.0	743.6
177.5°	744.1	743.4	743.4	743.4	743.4	743.4	743.6	744.2	744.7	745.2	745.7
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332680-840

CATALOG NUMBER: SA4XXDIP-C1195D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1959.2	1965.7	1974.1	1988.3	1993.5	1999.9	2008.9	2008.3	2010.8	2020.5	2041.2
5°	1966.5	1991.6	2015.7	2044.8	2075.4	2095.6	2122.9	2139.9	2156.9	2178.6	2215.6
7.5°	1969.4	2009.1	2053.5	2104.5	2149.7	2202.0	2242.8	2281.2	2315.8	2361.8	2406.0
10°	1964.9	2018.1	2075.4	2139.9	2208.4	2266.4	2318.9	2378.5	2429.3	2485.0	2535.0
12.5°	1956.5	2020.7	2097.3	2169.6	2249.7	2335.5	2400.9	2461.1	2528.7	2592.7	2669.8
15°	1937.5	2025.4	2114.9	2210.0	2317.2	2416.4	2510.8	2589.0	2661.6	2757.5	2858.3
17.5°	1913.3	2008.1	2121.0	2236.1	2348.2	2461.6	2578.4	2695.9	2787.5	2906.7	2985.6
20°	1890.8	2000.4	2116.5	2253.6	2365.6	2506.8	2622.8	2736.5	2862.4	2980.8	3075.1
22.5°	1859.2	1979.1	2102.3	2238.8	2386.3	2527.4	2661.6	2784.9	2910.7	3039.6	3153.9
25°	1819.0	1927.8	2073.8	2228.6	2375.3	2528.5	2682.5	2837.3	2972.7	3109.1	3215.5
27.5°	1750.6	1888.0	2024.0	2183.7	2346.8	2520.1	2684.8	2846.8	2988.8	3100.8	3166.7
30°	1715.8	1835.1	1982.7	2143.1	2319.7	2506.0	2677.7	2836.5	2968.8	3058.3	3084.8
32.5°	1664.2	1787.4	1931.7	2098.0	2284.8	2476.3	2655.1	2804.9	2915.2	2962.1	2930.0
35°	1587.6	1698.9	1844.8	2014.9	2209.2	2413.2	2589.8	2716.3	2772.8	2728.5	2618.0
37.5°	1495.7	1606.0	1752.5	1919.7	2120.7	2328.0	2487.7	2578.8	2560.1	2449.8	2285.2
40°	1431.2	1534.4	1673.9	1854.4	2050.4	2258.5	2398.7	2447.9	2396.3	2238.3	2063.3
42.5°	1359.6	1460.2	1600.3	1774.4	1982.1	2173.9	2296.1	2300.2	2213.7	2024.8	1849.2
45°	1250.5	1346.5	1478.7	1660.1	1852.1	2032.7	2113.2	2073.8	1914.1	1731.9	1555.3
47.5°	1143.0	1226.2	1356.5	1528.7	1710.9	1863.0	1903.0	1831.9	1661.7	1484.9	1321.2
50°	1064.3	1148.1	1270.7	1435.2	1610.9	1742.4	1761.7	1667.4	1500.5	1322.3	1194.1
52.5°	988.9	1072.1	1190.1	1342.3	1503.3	1621.7	1622.4	1513.3	1347.0	1188.1	1068.9
55°	878.1	953.0	1059.4	1195.7	1339.3	1432.0	1409.4	1296.5	1152.2	1014.3	910.3
57.5°	771.3	836.6	934.6	1048.3	1174.8	1251.2	1213.8	1105.1	976.2	859.3	780.5
60°	702.3	764.4	848.2	955.4	1061.9	1121.6	1086.1	987.7	869.2	774.9	706.3
62.5°	635.2	687.6	768.2	861.3	960.0	1004.1	972.5	875.5	773.1	687.7	632.2
65°	540.2	583.0	647.4	727.3	799.0	837.0	810.3	720.0	641.8	580.6	536.1
67.5°	451.5	484.9	533.7	597.7	658.7	679.2	655.0	592.2	525.8	476.9	445.6
70°	390.2	421.7	462.8	512.0	565.2	586.9	562.8	512.8	458.8	413.6	382.9
72.5°	336.7	361.0	395.8	437.8	479.4	501.2	484.7	436.7	391.0	357.5	331.3
75°	256.4	277.4	301.5	331.3	363.7	378.2	363.7	330.5	299.1	274.2	255.6
77.5°	186.4	197.7	216.4	238.6	258.8	269.9	257.4	235.0	215.8	198.6	189.5
80°	141.9	150.0	162.9	180.6	194.3	204.8	196.7	178.1	162.9	151.6	147.5
82.5°	103.2	108.7	117.0	130.3	139.5	144.8	141.3	127.8	121.6	111.6	107.6
85°	50.8	54.0	59.7	63.7	71.8	72.6	73.4	67.8	62.1	59.7	56.5
87.5°	18.1	19.0	21.2	23.4	26.3	27.1	26.7	26.9	24.4	23.9	21.5
90°	3.1	4.5	6.0	7.4	8.6	9.6	10.6	11.6	12.6	13.4	14.2
92.5°	13.9	15.6	17.2	18.8	19.9	20.7	21.4	22.1	22.8	23.2	23.7
95°	35.7	36.9	38.0	39.2	40.2	41.1	42.0	42.9	43.7	44.1	44.5
97.5°	61.3	62.2	63.1	64.0	65.0	66.0	67.2	68.2	69.3	69.7	70.2
100°	81.2	81.7	82.2	82.7	83.5	84.6	85.8	86.9	88.2	88.4	88.7
102.5°	102.0	102.2	102.4	102.6	103.3	104.3	105.3	106.4	107.4	107.9	108.2
105°	134.3	134.4	134.6	134.7	135.0	135.5	136.0	136.5	137.0	137.4	137.8
107.5°	168.3	168.4	168.6	168.8	169.0	169.0	169.1	169.2	169.3	169.6	170.0
110°	191.5	191.8	192.0	192.3	192.3	192.2	192.1	192.0	191.8	191.6	191.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	215.2	215.3	215.3	215.4	215.3	215.1	214.8	214.6	214.4	214.3	214.3
115°	251.2	251.2	251.2	251.2	251.0	250.7	250.4	250.2	249.9	249.8	249.7
117.5°	285.1	285.2	285.3	285.4	285.4	285.2	285.0	284.8	284.7	284.2	283.8
120°	308.1	308.6	309.1	309.6	309.7	309.3	308.9	308.5	308.1	307.5	306.9
122.5°	331.2	331.4	331.6	331.8	331.9	331.7	331.5	331.3	331.2	330.7	330.3
125°	365.8	365.8	365.8	365.8	365.7	365.6	365.5	365.3	365.2	364.9	364.7
127.5°	397.6	398.0	398.4	398.7	398.8	398.6	398.4	398.2	398.0	397.8	397.5
130°	419.7	420.1	420.5	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5
132.5°	442.2	442.4	442.7	443.0	443.1	443.0	442.9	442.8	442.7	442.4	442.2
135°	472.5	473.2	474.0	474.8	475.1	475.1	475.1	475.1	475.1	474.9	474.6
137.5°	504.5	504.9	505.2	505.6	505.9	506.1	506.3	506.5	506.8	506.4	506.0
140°	526.1	526.3	526.6	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.7
142.5°	545.9	546.2	546.4	546.7	546.7	546.6	546.5	546.4	546.3	546.3	546.3
145°	573.6	574.1	574.6	575.1	575.4	575.6	575.7	575.8	575.9	575.8	575.7
147.5°	600.9	601.5	602.1	602.8	603.0	602.9	602.8	602.7	602.6	602.5	602.4
150°	617.4	617.9	618.4	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	632.9	633.2	633.5	633.8	634.0	634.1	634.2	634.3	634.4	634.7	635.0
155°	656.6	656.6	656.6	656.6	656.5	656.4	656.3	656.2	656.0	656.5	657.0
157.5°	676.6	676.4	676.2	676.0	675.8	675.8	675.8	675.8	675.7	676.1	676.5
160°	688.7	688.6	688.5	688.3	688.2	688.1	688.0	687.8	687.7	688.1	688.5
162.5°	699.6	699.2	698.9	698.6	698.3	698.2	698.1	698.0	697.8	698.5	699.2
165°	714.4	714.0	713.7	713.3	713.0	712.7	712.5	712.2	712.0	712.7	713.5
167.5°	725.7	725.1	724.6	724.1	723.8	723.8	723.9	723.9	723.9	724.7	725.4
170°	732.1	731.3	730.7	730.0	729.8	729.9	730.0	730.2	730.3	731.1	731.8
172.5°	736.7	736.2	735.7	735.1	734.9	734.9	734.9	734.9	735.0	735.8	736.7
175°	743.0	742.4	741.6	741.0	740.6	740.5	740.4	740.2	740.1	741.0	741.9
177.5°	745.2	744.7	744.2	743.6	743.4	743.4	743.4	743.4	743.4	744.1	744.8
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2051.5	2052.9	2058.6	2063.2	2064.5	2070.8	2071.5
5°	2231.8	2245.5	2272.1	2274.5	2278.6	2299.6	2283.4
7.5°	2443.1	2477.9	2501.1	2521.6	2529.0	2538.2	2536.3
10°	2578.5	2630.1	2655.9	2697.0	2698.7	2709.2	2702.7
12.5°	2714.6	2774.6	2821.7	2829.2	2863.8	2869.1	2878.1
15°	2907.5	2971.1	3036.5	3059.9	3107.5	3118.8	3136.4
17.5°	3088.8	3153.9	3199.7	3260.1	3279.6	3305.8	3288.0
20°	3188.0	3259.0	3317.1	3364.7	3384.8	3399.3	3397.7
22.5°	3248.0	3319.6	3366.7	3402.7	3421.5	3427.7	3427.4
25°	3285.6	3326.7	3341.2	3355.0	3334.0	3326.7	3329.9
27.5°	3181.2	3170.5	3132.6	3082.9	3031.3	2990.3	2968.1
30°	3037.3	2974.4	2917.2	2817.1	2765.6	2734.9	2707.5
32.5°	2833.5	2733.8	2623.6	2532.0	2473.4	2427.9	2421.2
35°	2484.2	2334.2	2199.6	2087.5	2029.4	1980.2	1968.9
37.5°	2112.0	1956.2	1834.9	1736.3	1673.9	1639.2	1606.8
40°	1864.9	1731.1	1611.7	1527.9	1480.4	1455.3	1435.2
42.5°	1674.7	1552.5	1433.7	1369.9	1326.9	1311.5	1299.7
45°	1411.8	1298.1	1215.9	1167.5	1142.5	1116.7	1104.6
47.5°	1201.3	1108.8	1054.6	1013.5	986.7	971.4	963.7
50°	1082.1	1006.2	957.9	926.5	902.2	890.1	883.7
52.5°	976.2	914.0	873.3	848.4	831.9	823.0	820.5
55°	840.9	793.3	767.6	745.8	733.8	725.7	722.5
57.5°	730.9	694.4	673.4	655.5	650.9	644.1	641.8
60°	658.7	630.6	612.8	600.7	596.6	588.5	590.2
62.5°	594.9	571.8	556.6	549.8	544.4	537.7	539.9
65°	503.1	486.1	478.2	471.7	465.2	461.2	464.4
67.5°	422.1	410.6	399.6	395.9	392.6	392.0	388.6
70°	369.3	359.6	349.9	347.5	347.5	344.3	343.5
72.5°	318.3	311.2	304.8	303.0	300.4	301.7	298.3
75°	245.9	240.2	237.8	235.4	234.6	234.6	232.2
77.5°	181.8	177.5	173.7	173.7	170.8	169.7	169.4
80°	137.8	136.2	133.0	133.0	131.4	132.2	130.6
82.5°	103.7	101.4	100.8	99.5	97.3	97.4	95.8
85°	55.6	53.2	52.4	50.0	48.4	50.0	48.4
87.5°	22.3	21.8	21.3	20.1	19.5	19.5	17.7
90°	14.9	15.8	16.3	16.6	16.8	17.1	17.3
92.5°	24.2	24.6	24.9	25.1	25.2	25.4	25.5
95°	44.9	45.3	45.5	45.5	45.5	45.5	45.5
97.5°	70.6	71.1	71.3	71.3	71.3	71.3	71.3
100°	88.9	89.2	89.3	89.3	89.3	89.3	89.3
102.5°	108.6	108.9	109.2	109.3	109.4	109.5	109.6
105°	138.3	138.7	139.0	139.4	139.8	140.2	140.6
107.5°	170.3	170.7	170.9	170.8	170.8	170.8	170.8
110°	191.1	190.8	190.9	191.3	191.6	192.0	192.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	214.2	214.2	214.2	214.3	214.3	214.4	214.5
115°	249.6	249.4	249.3	249.2	249.0	248.9	248.8
117.5°	283.4	282.9	282.6	282.3	282.1	281.8	281.6
120°	306.2	305.6	305.4	305.7	305.9	306.2	306.4
122.5°	329.9	329.4	329.0	328.5	328.1	327.6	327.2
125°	364.4	364.2	363.9	363.7	363.3	363.1	362.8
127.5°	397.3	397.0	396.8	396.6	396.4	396.2	396.0
130°	420.3	420.0	419.6	419.1	418.6	418.1	417.6
132.5°	441.9	441.7	441.4	441.2	441.0	440.8	440.6
135°	474.4	474.1	473.8	473.4	473.0	472.7	472.3
137.5°	505.7	505.4	505.2	505.3	505.4	505.5	505.6
140°	526.6	526.5	526.3	526.2	526.1	526.0	525.8
142.5°	546.3	546.2	546.2	546.2	546.2	546.1	546.1
145°	575.6	575.4	575.2	574.8	574.4	574.0	573.7
147.5°	602.3	602.2	602.1	602.0	601.8	601.7	601.6
150°	619.1	619.1	619.1	618.9	618.8	618.7	618.6
152.5°	635.3	635.6	635.6	635.3	634.9	634.6	634.3
155°	657.5	658.1	658.1	657.5	657.0	656.5	656.0
157.5°	676.9	677.3	677.2	676.8	676.4	675.9	675.5
160°	688.8	689.2	689.1	688.5	687.8	687.2	686.6
162.5°	699.9	700.6	700.6	700.0	699.3	698.7	698.1
165°	714.2	715.0	715.1	714.6	714.1	713.6	713.1
167.5°	726.2	727.0	726.9	726.2	725.4	724.6	723.8
170°	732.7	733.4	733.4	732.5	731.5	730.6	729.7
172.5°	737.6	738.4	738.4	737.5	736.6	735.7	734.9
175°	742.9	743.7	743.7	742.9	741.9	741.0	740.1
177.5°	745.5	746.2	746.2	745.4	744.6	743.7	742.9
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8

(END OF REPORT)