

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: P333005

Luminaire Tested: **SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P333005  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

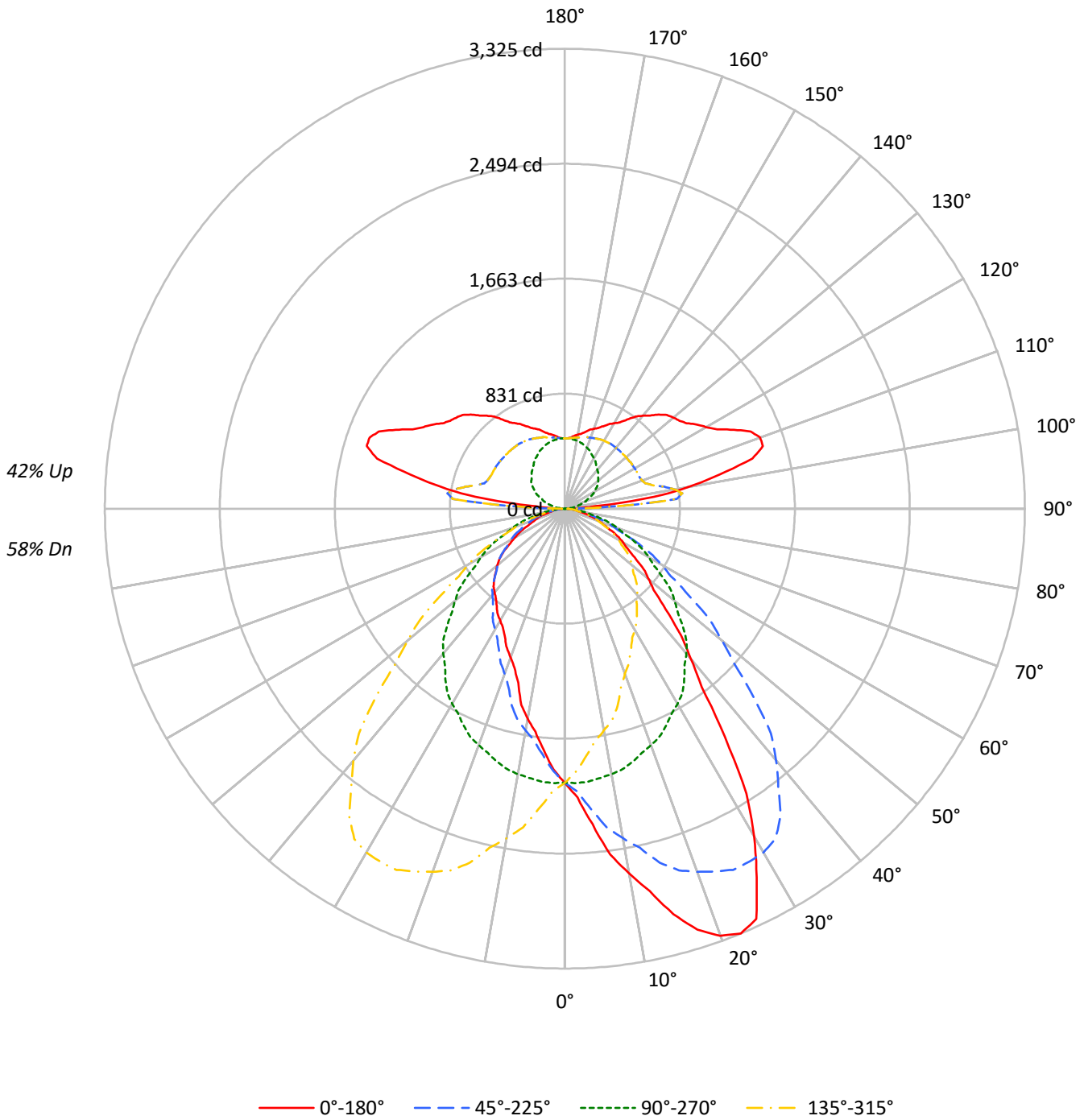
Lumens per Lamp: N/A  
Luminaire Lumens: 8707.6 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66.8  
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	0
RCR																		
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58
1	100	96	92	89	93	90	86	83	78	75	73	67	65	63	57	55	54	50
2	92	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	47	42
3	84	75	67	62	78	70	64	58	61	56	52	53	49	46	45	42	40	36
4	77	66	59	53	71	62	55	50	55	49	45	47	43	40	41	38	35	32
5	71	59	51	45	66	56	49	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	40	61	50	43	38	44	39	34	39	34	31	34	30	27	25
7	61	48	41	35	56	46	39	33	40	35	30	35	31	27	31	27	24	22
8	56	44	36	31	52	42	35	30	37	31	27	32	28	25	28	25	22	20
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	23	20	18
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16

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

	0°	90°	180°	270°
0°	15998	15998	15998	15998
5°	18556	16046	14182	16046
10°	21952	15976	12658	15976
15°	25357	15828	10877	15828
20°	28233	15625	9836	15625
25°	29144	15425	9132	15425
30°	25513	15183	8708	15183
35°	19860	14824	8451	14824
40°	14893	14413	8313	14413
45°	11758	13755	8241	13755
50°	9927	12995	8002	12995
55°	8653	12159	7574	12159
60°	7786	11292	6704	11292
65°	6863	10355	5765	10355
70°	6182	9385	5202	9385
75°	5181	8319	4432	8319
80°	4379	7090	4156	7090
85°	3696	5548	3696	5548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.0	2.2
10°-20°	579.2	6.7
20°-30°	905.9	10.4
30°-40°	1007.1	11.6
40°-50°	893.5	10.3
50°-60°	696.2	8.0
60°-70°	455.8	5.2
70°-80°	224.2	2.6
80°-90°	58.1	0.7
90°-100°	367.0	4.2
100°-110°	763.9	8.8
110°-120°	684.2	7.9
120°-130°	575.5	6.6
130°-140°	479.9	5.5
140°-150°	366.6	4.2
150°-160°	257.7	3.0
160°-170°	151.6	1.7
170°-180°	49.3	0.6
0°-30°	1677.1	19.3
0°-40°	2684.1	30.8
0°-60°	4273.8	49.1
0°-90°	5012.0	57.6
90°-120°	1815.1	20.8
90°-150°	3237.1	37.2
90°-180°	3696.0	42.4
0°-180°	8707.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1982	1982	1982	1982	1982	
5°	2290	1980	1750	1980	2290	232
15°	3034	1894	1301	1894	3034	863
25°	3272	1732	1025	1732	3272	1452
35°	2015	1504	858	1504	2015	1263
45°	1030	1205	722	1205	1030	816
55°	615	864	538	864	615	559
65°	359	542	302	542	359	361
75°	166	267	142	267	166	183
85°	40	60	40	60	40	45
90°	21	1	21	1	21	19
95°	244	33	244	33	244	378
105°	1405	117	1405	117	1405	1389
115°	1349	206	1349	206	1349	1339
125°	1076	286	1076	286	1076	978
135°	962	340	962	340	962	743
145°	786	392	786	392	786	498
155°	658	446	658	446	658	307
165°	574	486	574	486	574	165
175°	517	507	517	507	517	50
180°	508	508	508	508	508	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2090.2	2096.0	2090.2	2089.6	2083.2	2081.3	2078.7	2070.4	2055.1	2046.2	2048.1
5°	2289.8	2309.8	2298.6	2297.0	2279.5	2261.9	2250.7	2225.2	2198.0	2179.7	2164.5
7.5°	2520.7	2532.2	2525.2	2514.0	2485.6	2469.5	2443.6	2409.9	2361.2	2324.0	2290.0
10°	2677.9	2687.4	2684.3	2663.5	2642.7	2600.4	2576.5	2529.4	2467.9	2419.2	2373.7
12.5°	2832.4	2842.7	2814.6	2815.5	2776.2	2742.9	2704.9	2645.6	2574.6	2511.8	2454.8
15°	3034.0	3021.2	3021.2	3005.2	2961.3	2915.0	2875.9	2813.6	2724.2	2649.1	2570.1
17.5°	3191.7	3196.2	3189.6	3152.0	3117.5	3069.6	2997.9	2925.2	2842.2	2741.4	2660.6
20°	3286.3	3286.3	3279.1	3253.5	3208.8	3157.7	3080.3	3001.2	2895.8	2794.4	2703.4
22.5°	3324.6	3327.1	3318.7	3297.6	3257.4	3207.5	3141.6	3061.3	2952.7	2838.5	2725.8
25°	3271.9	3287.1	3288.6	3283.1	3271.1	3240.7	3184.1	3101.8	3004.4	2880.7	2759.3
27.5°	3003.9	3023.1	3039.9	3067.5	3104.2	3123.4	3125.9	3084.1	2999.1	2880.0	2757.9
30°	2736.9	2752.9	2804.8	2872.7	2925.4	2973.3	3014.8	3026.0	2978.1	2871.1	2742.5
32.5°	2440.6	2462.3	2514.2	2587.2	2675.0	2756.1	2849.4	2896.9	2895.7	2831.5	2712.5
35°	2015.2	2031.2	2079.1	2155.7	2261.1	2381.7	2529.4	2644.3	2722.6	2717.0	2644.3
37.5°	1625.2	1643.3	1691.7	1755.2	1857.4	2006.7	2149.6	2308.0	2452.7	2534.0	2509.7
40°	1413.2	1414.0	1461.1	1526.6	1622.4	1752.5	1908.2	2083.8	2245.1	2376.9	2402.4
42.5°	1245.8	1246.0	1277.1	1347.7	1416.7	1539.2	1687.8	1862.2	2051.0	2203.1	2270.8
45°	1029.9	1037.1	1062.7	1105.0	1159.3	1263.1	1382.0	1544.1	1755.7	1936.1	2048.7
47.5°	872.2	882.7	899.0	933.5	976.8	1045.9	1144.3	1289.9	1462.0	1660.5	1820.7
50°	790.4	792.0	812.8	831.9	869.5	924.6	1010.8	1132.1	1290.2	1481.0	1659.1
52.5°	720.2	719.8	732.3	756.6	787.1	830.0	899.6	1010.1	1150.3	1321.4	1505.2
55°	614.8	618.8	628.3	647.5	670.7	701.0	756.1	839.1	949.3	1095.4	1262.3
57.5°	534.6	536.7	544.2	552.3	573.6	595.6	637.0	694.6	787.6	907.2	1062.7
60°	482.2	483.0	485.4	497.4	514.2	534.9	562.9	611.6	689.8	799.2	922.2
62.5°	431.1	432.6	436.3	445.0	458.0	472.3	501.6	540.7	605.5	698.9	809.7
65°	359.3	360.1	365.7	368.9	379.2	392.0	413.6	439.9	484.6	562.9	646.7
67.5°	300.2	300.2	300.5	304.8	312.0	320.5	333.4	354.5	388.2	436.3	510.2
70°	261.9	261.9	263.5	265.9	269.9	277.0	284.2	300.2	325.0	364.1	420.8
72.5°	226.1	226.7	228.3	228.8	230.9	236.8	242.1	252.3	270.7	300.2	346.0
75°	166.1	168.5	172.5	175.7	179.6	178.8	184.4	190.8	196.4	214.0	240.3
77.5°	123.6	122.3	122.8	125.5	126.0	126.8	130.8	135.7	139.9	148.2	157.6
80°	94.2	94.2	96.6	97.4	96.6	97.4	101.4	103.8	105.4	108.6	117.4
82.5°	71.2	72.5	71.7	72.5	73.0	73.8	77.1	77.6	79.2	80.5	84.2
85°	39.9	40.7	41.5	39.9	39.9	39.9	41.5	42.3	43.9	43.1	44.7
87.5°	18.2	17.6	18.4	18.2	18.7	18.0	18.5	19.6	18.1	18.9	18.5
90°	21.0	21.0	22.0	21.0	20.0	20.0	19.0	18.0	17.0	18.0	16.0
92.5°	76.9	76.9	80.3	85.7	97.4	117.4	147.6	196.1	263.8	316.7	277.1
95°	243.6	256.6	274.5	305.5	354.4	451.2	585.0	739.7	836.6	813.6	614.0
97.5°	651.1	671.9	701.8	761.9	833.6	937.8	1035.4	1093.0	1051.0	856.9	574.6
100°	915.5	923.4	953.4	1014.3	1101.1	1175.0	1223.9	1204.0	1058.2	802.6	521.1
102.5°	1145.5	1151.9	1183.4	1227.5	1280.8	1311.6	1297.4	1198.4	998.3	734.8	485.2
105°	1404.6	1410.6	1424.6	1432.6	1430.6	1389.6	1290.8	1118.1	889.5	654.9	454.2
107.5°	1500.9	1498.3	1488.3	1465.5	1416.2	1327.2	1188.0	1004.1	801.6	610.2	448.6
110°	1502.5	1493.5	1475.5	1433.6	1362.7	1252.9	1108.1	935.4	757.7	595.0	450.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1455.3	1440.8	1415.6	1364.9	1284.4	1174.6	1037.8	885.1	733.0	587.8	455.0
115°	1348.7	1340.7	1308.8	1248.9	1170.0	1074.2	957.4	834.6	709.8	584.0	464.2
117.5°	1240.7	1234.5	1202.2	1151.9	1084.6	1003.3	911.5	809.8	699.4	583.0	474.0
120°	1180.0	1169.0	1143.1	1099.1	1042.2	971.4	891.5	798.6	693.8	583.0	481.2
122.5°	1132.1	1121.1	1099.1	1061.6	1013.5	951.4	878.7	789.1	687.4	582.2	488.4
125°	1076.2	1070.2	1051.2	1022.3	982.3	927.4	858.5	772.7	676.9	581.0	499.2
127.5°	1043.4	1037.4	1021.5	995.7	955.6	903.5	834.8	752.7	662.7	578.8	507.7
130°	1024.3	1018.3	1002.3	977.3	936.4	883.5	815.6	736.8	653.9	578.0	514.1
132.5°	1002.7	996.7	981.5	953.4	913.3	860.3	794.1	720.0	645.9	577.2	519.7
135°	962.4	956.4	940.4	912.5	872.5	822.6	761.7	696.8	633.9	576.0	528.1
137.5°	912.5	905.3	892.1	864.5	827.2	782.1	730.8	675.9	623.5	575.8	533.1
140°	876.5	868.5	854.6	832.6	797.6	755.7	710.8	663.9	618.0	575.0	537.1
142.5°	838.2	832.6	820.2	799.8	768.9	732.6	694.0	652.7	613.2	575.0	540.3
145°	785.7	780.7	770.7	753.7	728.8	700.8	670.9	636.9	605.0	573.0	542.1
147.5°	739.1	737.4	729.8	715.2	696.8	674.9	650.9	623.9	597.6	569.4	543.1
150°	712.8	711.8	705.8	692.8	676.9	658.9	638.9	616.0	592.0	567.0	543.1
152.5°	688.8	687.8	684.2	673.7	660.1	645.3	626.9	607.2	585.6	563.0	541.5
155°	657.9	657.9	654.9	646.9	636.9	624.9	610.0	594.0	576.0	557.1	539.1
157.5°	630.7	630.7	628.9	622.9	615.4	605.8	593.2	579.8	566.2	550.9	536.5
160°	614.0	614.0	613.0	607.0	601.0	593.0	582.0	571.0	559.1	546.1	534.1
162.5°	598.0	598.8	597.8	591.8	587.4	580.2	571.6	562.2	552.7	541.3	531.7
165°	574.0	575.0	576.0	572.0	568.0	563.0	556.1	550.1	542.1	534.1	527.1
167.5°	555.1	555.9	556.1	553.5	551.5	548.5	542.9	538.3	532.5	526.9	522.3
170°	543.1	543.1	544.1	543.1	541.1	538.1	534.1	531.1	526.1	522.1	519.1
172.5°	531.1	532.7	533.7	532.7	531.5	529.3	526.9	524.7	520.5	517.3	515.9
175°	517.1	519.1	521.1	519.1	519.1	519.1	517.1	516.1	514.1	512.1	512.1
177.5°	508.9	510.5	512.1	511.3	512.1	511.3	511.3	510.5	509.7	508.9	508.9
180°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2041.7	2032.8	2028.3	2018.1	2005.9	1999.5	1993.8	1985.5	1974.6	1963.1	1954.8
5°	2145.3	2126.2	2102.2	2073.5	2047.9	2023.2	2001.6	1980.1	1955.3	1929.8	1904.2
7.5°	2251.7	2214.0	2173.3	2126.2	2080.3	2038.7	2000.3	1963.6	1922.1	1884.9	1851.0
10°	2325.8	2274.7	2218.0	2158.1	2098.2	2046.3	1995.2	1948.9	1897.8	1852.3	1814.0
12.5°	2385.8	2325.8	2257.6	2183.0	2111.0	2048.2	1989.5	1929.1	1871.0	1821.7	1770.6
15°	2485.4	2403.2	2311.4	2222.0	2128.6	2043.1	1964.1	1893.8	1827.6	1758.1	1709.4
17.5°	2554.0	2456.4	2344.8	2237.3	2127.0	2026.2	1935.0	1851.4	1774.9	1704.0	1646.0
20°	2594.8	2487.0	2363.3	2241.1	2117.4	2009.6	1911.4	1818.8	1739.7	1663.1	1603.2
22.5°	2617.8	2498.5	2363.3	2235.4	2107.2	1990.4	1882.6	1786.2	1700.1	1623.5	1557.2
25°	2625.2	2497.4	2359.3	2212.4	2071.9	1948.1	1836.3	1731.7	1635.9	1559.3	1489.0
27.5°	2615.0	2464.5	2323.1	2172.3	2027.3	1896.9	1779.5	1669.6	1573.7	1491.4	1419.4
30°	2599.6	2438.3	2286.6	2130.2	1983.2	1857.9	1734.1	1628.8	1529.0	1443.5	1370.9
32.5°	2566.4	2406.4	2243.2	2082.9	1934.1	1804.9	1687.5	1581.5	1483.6	1396.3	1319.1
35°	2500.6	2338.5	2161.3	1996.8	1850.7	1716.6	1606.4	1504.2	1410.8	1317.4	1235.9
37.5°	2413.9	2248.3	2072.0	1891.9	1745.6	1619.0	1517.9	1422.0	1330.8	1245.5	1155.3
40°	2332.2	2181.3	1999.2	1820.4	1670.3	1548.1	1454.7	1367.7	1275.9	1191.2	1101.0
42.5°	2233.2	2104.6	1920.7	1741.2	1593.0	1475.3	1388.3	1303.2	1219.7	1137.6	1043.5
45°	2067.9	1970.5	1798.0	1625.6	1476.3	1359.7	1279.9	1204.8	1131.3	1053.1	964.5
47.5°	1878.5	1812.5	1663.7	1487.1	1349.0	1244.1	1167.0	1105.6	1043.5	965.3	887.5
50°	1746.9	1704.6	1560.9	1399.6	1267.9	1171.3	1092.2	1034.7	982.8	907.8	838.3
52.5°	1606.4	1583.9	1462.5	1308.3	1181.0	1086.3	1018.8	967.0	914.5	852.2	787.2
55°	1392.4	1404.4	1301.4	1168.1	1048.3	968.5	907.0	863.9	819.2	766.5	716.2
57.5°	1173.7	1217.4	1148.3	1031.2	919.0	845.2	798.9	762.6	725.1	681.4	638.4
60°	1042.7	1079.4	1040.3	937.3	839.1	770.5	727.4	699.4	661.9	622.0	589.2
62.5°	915.0	954.3	931.1	847.9	756.7	697.7	659.6	633.6	605.7	570.9	536.9
65°	754.5	780.0	768.9	711.4	646.7	596.4	561.3	542.1	516.6	491.0	460.7
67.5°	577.9	627.2	620.7	590.2	534.3	495.0	472.0	455.1	431.8	412.8	392.2
70°	475.1	520.6	519.8	495.0	464.7	427.9	412.0	397.6	376.8	358.5	341.7
72.5°	388.8	430.5	436.7	417.7	397.0	369.2	353.9	344.0	323.8	311.2	297.6
75°	272.3	302.6	310.6	310.6	301.0	286.6	273.1	266.7	252.3	241.1	233.1
77.5°	178.5	197.7	210.1	213.0	214.5	209.7	198.5	194.0	183.0	179.0	171.3
80°	126.1	138.9	153.3	158.1	162.1	160.5	155.7	152.5	142.1	138.1	134.9
82.5°	87.2	94.2	106.0	116.6	115.4	119.6	115.4	112.9	105.1	103.6	100.4
85°	45.5	46.3	47.9	55.1	59.1	60.7	61.5	59.9	57.5	57.5	51.9
87.5°	18.1	17.5	17.6	17.6	18.0	20.4	21.7	21.9	20.4	19.1	17.4
90°	14.0	14.0	8.0	8.0	7.0	6.0	3.0	1.0	3.0	6.0	7.0
92.5°	201.7	124.2	73.5	52.7	38.1	26.0	16.6	11.4	16.6	26.0	38.1
95°	375.4	211.6	124.8	82.9	58.9	45.9	35.9	32.9	35.9	45.9	58.9
97.5°	337.4	202.3	135.4	100.2	79.7	67.7	59.1	59.1	59.1	67.7	79.7
100°	317.5	204.7	145.8	113.8	94.8	82.9	75.9	75.9	75.9	82.9	94.8
102.5°	311.9	212.6	159.3	129.0	110.8	99.6	93.4	91.8	93.4	99.6	110.8
105°	314.5	231.6	183.7	154.7	136.8	124.8	119.8	116.8	119.8	124.8	136.8
107.5°	329.2	253.8	209.8	181.3	164.1	151.3	146.4	144.4	146.4	151.3	164.1
110°	340.4	270.5	226.6	199.7	181.7	169.7	164.7	162.7	164.7	169.7	181.7





TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	352.4	286.5	244.2	217.2	199.3	188.1	182.3	180.3	182.3	188.1	199.3
115°	371.4	311.5	271.5	244.6	225.6	215.6	208.6	205.7	208.6	215.6	225.6
117.5°	390.7	335.6	297.7	269.7	252.0	241.0	234.8	232.0	234.8	241.0	252.0
120°	404.3	352.4	314.5	286.5	269.5	258.6	251.6	249.6	251.6	258.6	269.5
122.5°	417.1	368.4	330.4	303.3	284.7	274.5	267.5	265.6	267.5	274.5	284.7
125°	436.3	390.3	354.4	326.4	307.5	296.5	290.5	286.5	290.5	296.5	307.5
127.5°	452.8	410.7	376.0	347.8	328.0	315.5	308.3	305.1	308.3	315.5	328.0
130°	463.2	424.3	390.3	361.4	342.4	327.4	319.5	315.5	319.5	327.4	342.4
132.5°	473.6	435.5	401.5	374.2	353.6	339.4	329.0	325.8	329.0	339.4	353.6
135°	487.2	451.2	418.3	392.3	371.4	354.4	344.4	340.4	344.4	354.4	371.4
137.5°	496.8	463.2	432.5	407.7	385.9	369.8	358.8	355.0	358.8	369.8	385.9
140°	503.1	471.2	441.3	417.3	396.3	379.4	368.4	365.4	368.4	379.4	396.3
142.5°	507.9	478.4	449.2	426.1	405.9	389.7	379.6	376.6	379.6	389.7	405.9
145°	513.1	486.2	460.2	438.3	419.3	405.3	395.3	392.3	395.3	405.3	419.3
147.5°	517.7	494.2	469.8	450.0	434.3	419.9	411.1	410.1	411.1	419.9	434.3
150°	520.1	498.2	476.2	457.2	442.3	430.3	422.3	421.3	422.3	430.3	442.3
152.5°	521.7	501.4	481.8	464.4	451.0	439.9	431.9	431.7	431.9	439.9	451.0
155°	523.1	506.1	489.2	474.2	463.2	453.2	447.2	446.2	447.2	453.2	463.2
157.5°	523.1	509.5	495.2	483.4	473.8	466.0	460.4	460.4	460.4	466.0	473.8
160°	523.1	511.1	499.2	488.2	480.2	473.2	469.2	469.2	469.2	473.2	480.2
162.5°	523.1	512.7	501.6	493.0	485.8	479.6	476.4	477.2	476.4	479.6	485.8
165°	521.1	513.1	504.1	498.2	493.2	488.2	486.2	486.2	486.2	488.2	493.2
167.5°	518.7	512.9	506.3	501.8	499.0	495.2	494.2	495.2	494.2	495.2	499.0
170°	517.1	512.1	507.1	504.1	502.2	499.2	498.2	499.2	498.2	499.2	502.2
172.5°	515.5	511.3	507.9	505.7	504.5	502.3	502.2	503.1	502.2	502.3	504.5
175°	513.1	510.1	508.1	508.1	507.1	506.1	506.1	507.1	506.1	506.1	507.1
177.5°	510.5	508.9	508.1	508.1	508.1	507.3	508.1	508.9	508.1	507.3	508.1
180°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1945.9	1939.5	1931.2	1921.6	1910.1	1899.9	1895.4	1899.3	1901.2	1896.1	1895.4
5°	1886.6	1866.7	1850.7	1826.8	1807.6	1791.6	1780.5	1775.7	1777.3	1764.5	1761.3
7.5°	1820.1	1796.4	1770.2	1741.8	1715.3	1691.8	1679.5	1672.8	1659.3	1653.5	1643.8
10°	1777.3	1745.3	1719.8	1686.2	1655.9	1628.0	1614.4	1603.2	1589.6	1583.2	1569.7
12.5°	1733.2	1696.1	1668.0	1633.2	1602.2	1568.6	1555.6	1534.9	1513.6	1500.2	1482.8
15°	1671.1	1626.4	1592.0	1550.5	1513.8	1475.5	1441.1	1402.8	1388.4	1358.1	1340.5
17.5°	1598.4	1553.1	1510.6	1454.9	1398.2	1350.6	1314.0	1277.3	1255.3	1235.9	1227.0
20°	1550.5	1509.0	1449.9	1385.2	1322.2	1269.5	1239.9	1216.0	1192.0	1178.5	1168.9
22.5°	1505.2	1452.1	1383.5	1313.7	1250.6	1209.4	1184.4	1159.8	1140.3	1127.4	1114.6
25°	1429.2	1359.7	1287.0	1207.2	1164.1	1128.2	1101.0	1081.0	1069.1	1052.3	1045.9
27.5°	1351.1	1266.9	1186.8	1133.1	1088.2	1055.3	1031.7	1016.7	1001.5	990.8	982.5
30°	1291.0	1205.6	1133.7	1082.6	1037.1	1010.0	990.8	973.3	961.3	952.5	946.1
32.5°	1231.6	1146.2	1085.8	1030.9	995.0	968.5	948.0	934.9	925.5	914.2	910.3
35°	1145.7	1069.9	1017.2	967.7	930.9	907.0	891.0	877.5	869.5	866.3	863.9
37.5°	1063.2	1001.0	944.4	903.8	871.1	852.2	833.4	826.7	821.2	815.5	818.1
40°	1010.8	952.5	902.2	859.1	832.7	812.0	800.8	792.8	788.0	788.0	788.0
42.5°	965.4	908.4	859.4	820.8	794.4	776.9	764.4	757.7	756.1	755.5	759.3
45°	895.0	842.3	792.8	760.9	738.5	721.0	713.8	708.2	708.2	711.4	712.2
47.5°	825.2	775.9	736.1	700.4	679.9	668.9	662.7	659.8	660.1	663.3	667.0
50°	782.4	733.7	694.6	662.7	643.5	633.1	627.5	626.0	627.5	627.5	633.1
52.5°	735.8	692.2	653.7	626.9	605.2	595.5	592.4	590.2	591.1	593.7	596.1
55°	667.5	628.3	591.6	566.1	550.1	543.7	536.5	537.3	535.7	537.3	537.3
57.5°	599.0	563.8	529.7	509.4	495.3	486.1	478.2	480.5	478.1	477.8	476.5
60°	554.9	516.6	489.4	471.1	455.1	447.1	439.9	441.5	439.1	437.5	434.3
62.5°	507.0	475.1	449.2	431.5	418.7	409.4	402.2	400.6	395.1	389.6	382.6
65°	437.5	411.2	388.0	371.3	359.3	352.1	346.5	341.7	329.7	317.0	310.6
67.5°	370.0	351.0	329.4	315.2	305.5	296.1	285.4	277.2	266.0	259.0	255.0
70°	326.5	308.2	289.8	276.2	265.9	257.1	245.1	239.5	231.5	228.3	224.4
72.5°	285.0	267.9	250.9	238.6	227.5	220.7	211.3	205.7	202.2	200.9	196.9
75°	222.0	208.4	195.6	184.4	175.7	170.9	166.9	162.9	161.3	154.1	150.1
77.5°	161.9	153.0	145.0	137.0	130.8	127.6	119.9	115.3	112.6	109.2	108.4
80°	126.1	119.8	111.8	107.0	98.2	95.0	91.8	91.0	90.2	89.4	88.6
82.5°	94.9	88.5	80.5	77.6	75.2	73.3	71.4	70.6	69.8	70.3	70.1
85°	47.9	44.7	44.7	43.9	43.1	42.3	41.5	41.5	40.7	41.5	40.7
87.5°	17.6	16.9	18.1	16.8	17.9	18.3	17.4	17.6	18.5	17.4	17.4
90°	8.0	8.0	14.0	14.0	16.0	18.0	17.0	18.0	19.0	20.0	20.0
92.5°	52.7	73.5	124.2	201.7	277.1	316.7	263.8	196.1	147.6	117.4	97.4
95°	82.9	124.8	211.6	375.4	614.0	813.6	836.6	739.7	585.0	451.2	354.4
97.5°	100.2	135.4	202.3	337.4	574.6	856.9	1051.0	1093.0	1035.4	937.8	833.6
100°	113.8	145.8	204.7	317.5	521.1	802.6	1058.2	1204.0	1223.9	1175.0	1101.1
102.5°	129.0	159.3	212.6	311.9	485.2	734.8	998.3	1198.4	1297.4	1311.6	1280.8
105°	154.7	183.7	231.6	314.5	454.2	654.9	889.5	1118.1	1290.8	1389.6	1430.6
107.5°	181.3	209.8	253.8	329.2	448.6	610.2	801.6	1004.1	1188.0	1327.2	1416.2
110°	199.7	226.6	270.5	340.4	450.2	595.0	757.7	935.4	1108.1	1252.9	1362.7



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.2	244.2	286.5	352.4	455.0	587.8	733.0	885.1	1037.8	1174.6	1284.4
115°	244.6	271.5	311.5	371.4	464.2	584.0	709.8	834.6	957.4	1074.2	1170.0
117.5°	269.7	297.7	335.6	390.7	474.0	583.0	699.4	809.8	911.5	1003.3	1084.6
120°	286.5	314.5	352.4	404.3	481.2	583.0	693.8	798.6	891.5	971.4	1042.2
122.5°	303.3	330.4	368.4	417.1	488.4	582.2	687.4	789.1	878.7	951.4	1013.5
125°	326.4	354.4	390.3	436.3	499.2	581.0	676.9	772.7	858.5	927.4	982.3
127.5°	347.8	376.0	410.7	452.8	507.7	578.8	662.7	752.7	834.8	903.5	955.6
130°	361.4	390.3	424.3	463.2	514.1	578.0	653.9	736.8	815.6	883.5	936.4
132.5°	374.2	401.5	435.5	473.6	519.7	577.2	645.9	720.0	794.1	860.3	913.3
135°	392.3	418.3	451.2	487.2	528.1	576.0	633.9	696.8	761.7	822.6	872.5
137.5°	407.7	432.5	463.2	496.8	533.1	575.8	623.5	675.9	730.8	782.1	827.2
140°	417.3	441.3	471.2	503.1	537.1	575.0	618.0	663.9	710.8	755.7	797.6
142.5°	426.1	449.2	478.4	507.9	540.3	575.0	613.2	652.7	694.0	732.6	768.9
145°	438.3	460.2	486.2	513.1	542.1	573.0	605.0	636.9	670.9	700.8	728.8
147.5°	450.0	469.8	494.2	517.7	543.1	569.4	597.6	623.9	650.9	674.9	696.8
150°	457.2	476.2	498.2	520.1	543.1	567.0	592.0	616.0	638.9	658.9	676.9
152.5°	464.4	481.8	501.4	521.7	541.5	563.0	585.6	607.2	626.9	645.3	660.1
155°	474.2	489.2	506.1	523.1	539.1	557.1	576.0	594.0	610.0	624.9	636.9
157.5°	483.4	495.2	509.5	523.1	536.5	550.9	566.2	579.8	593.2	605.8	615.4
160°	488.2	499.2	511.1	523.1	534.1	546.1	559.1	571.0	582.0	593.0	601.0
162.5°	493.0	501.6	512.7	523.1	531.7	541.3	552.7	562.2	571.6	580.2	587.4
165°	498.2	504.1	513.1	521.1	527.1	534.1	542.1	550.1	556.1	563.0	568.0
167.5°	501.8	506.3	512.9	518.7	522.3	526.9	532.5	538.3	542.9	548.5	551.5
170°	504.1	507.1	512.1	517.1	519.1	522.1	526.1	531.1	534.1	538.1	541.1
172.5°	505.7	507.9	511.3	515.5	515.9	517.3	520.5	524.7	526.9	529.3	531.5
175°	508.1	508.1	510.1	513.1	512.1	512.1	514.1	516.1	517.1	519.1	519.1
177.5°	508.1	508.1	508.9	510.5	508.9	508.9	509.7	510.5	511.3	511.3	512.1
180°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1891.6	1892.9	1888.4	1887.1	1888.4	1892.9	1891.6	1895.4	1896.1	1901.2	1899.3
5°	1754.9	1753.3	1749.3	1750.1	1749.3	1753.3	1754.9	1761.3	1764.5	1777.3	1775.7
7.5°	1638.0	1631.8	1633.5	1627.2	1633.5	1631.8	1638.0	1643.8	1653.5	1659.3	1672.8
10°	1566.5	1557.7	1550.5	1544.1	1550.5	1557.7	1566.5	1569.7	1583.2	1589.6	1603.2
12.5°	1468.8	1461.2	1451.5	1453.4	1451.5	1461.2	1468.8	1482.8	1500.2	1513.6	1534.9
15°	1330.1	1318.2	1299.0	1301.4	1299.0	1318.2	1330.1	1340.5	1358.1	1388.4	1402.8
17.5°	1212.8	1212.9	1204.2	1206.2	1204.2	1212.9	1212.8	1227.0	1235.9	1255.3	1277.3
20°	1152.1	1146.5	1147.3	1144.9	1147.3	1146.5	1152.1	1168.9	1178.5	1192.0	1216.0
22.5°	1109.9	1103.1	1097.5	1092.5	1097.5	1103.1	1109.9	1114.6	1127.4	1140.3	1159.8
25°	1038.7	1033.9	1026.8	1025.2	1026.8	1033.9	1038.7	1045.9	1052.3	1069.1	1081.0
27.5°	976.1	975.2	972.3	968.6	972.3	975.2	976.1	982.5	990.8	1001.5	1016.7
30°	939.7	938.1	936.5	934.1	936.5	938.1	939.7	946.1	952.5	961.3	973.3
32.5°	907.2	906.2	904.6	904.8	904.6	906.2	907.2	910.3	914.2	925.5	934.9
35°	860.7	859.9	858.3	857.5	858.3	859.9	860.7	863.9	866.3	869.5	877.5
37.5°	817.3	819.3	818.4	818.2	818.4	819.3	817.3	818.1	815.5	821.2	826.7
40°	787.2	788.0	789.6	788.8	789.6	788.0	787.2	788.0	788.0	788.0	792.8
42.5°	762.3	762.5	764.7	762.0	764.7	762.5	762.3	759.3	755.5	756.1	757.7
45°	717.8	722.6	721.8	721.8	721.8	722.6	717.8	712.2	711.4	708.2	708.2
47.5°	669.1	673.2	674.3	674.2	674.3	673.2	669.1	667.0	663.3	660.1	659.8
50°	637.1	635.5	637.9	637.1	637.9	635.5	637.1	633.1	627.5	627.5	626.0
52.5°	598.2	598.5	598.3	597.5	598.3	598.5	598.2	596.1	593.7	591.1	590.2
55°	538.1	538.9	537.3	538.1	537.3	538.9	538.1	537.3	537.3	535.7	537.3
57.5°	473.0	469.1	470.7	468.8	470.7	469.1	473.0	476.5	477.8	478.1	480.5
60°	426.4	420.0	418.4	415.2	418.4	420.0	426.4	434.3	437.5	439.1	441.5
62.5°	374.0	369.5	364.1	366.6	364.1	369.5	374.0	382.6	389.6	395.1	400.6
65°	304.2	301.0	298.6	301.8	298.6	301.0	304.2	310.6	317.0	329.7	341.7
67.5°	251.8	250.1	250.1	248.5	250.1	250.1	251.8	255.0	259.0	266.0	277.2
70°	224.4	222.0	222.0	220.4	222.0	222.0	224.4	224.4	228.3	231.5	239.5
72.5°	196.2	193.9	194.5	193.5	194.5	193.9	196.2	196.9	200.9	202.2	205.7
75°	145.3	141.3	141.3	142.1	141.3	141.3	145.3	150.1	154.1	161.3	162.9
77.5°	108.4	107.6	108.7	107.3	108.7	107.6	108.4	108.4	109.2	112.6	115.3
80°	88.6	87.8	87.0	89.4	87.0	87.8	88.6	88.6	89.4	90.2	91.0
82.5°	68.8	68.7	68.5	71.5	68.5	68.7	68.8	70.1	70.3	69.8	70.6
85°	41.5	39.9	41.5	39.9	41.5	39.9	41.5	40.7	41.5	40.7	41.5
87.5°	18.9	18.4	17.6	18.2	17.6	18.4	18.9	17.4	17.4	18.5	17.6
90°	21.0	22.0	21.0	21.0	21.0	22.0	21.0	20.0	20.0	19.0	18.0
92.5°	85.7	80.3	76.9	76.9	76.9	80.3	85.7	97.4	117.4	147.6	196.1
95°	305.5	274.5	256.6	243.6	256.6	274.5	305.5	354.4	451.2	585.0	739.7
97.5°	761.9	701.8	671.9	651.1	671.9	701.8	761.9	833.6	937.8	1035.4	1093.0
100°	1014.3	953.4	923.4	915.5	923.4	953.4	1014.3	1101.1	1175.0	1223.9	1204.0
102.5°	1227.5	1183.4	1151.9	1145.5	1151.9	1183.4	1227.5	1280.8	1311.6	1297.4	1198.4
105°	1432.6	1424.6	1410.6	1404.6	1410.6	1424.6	1432.6	1430.6	1389.6	1290.8	1118.1
107.5°	1465.5	1488.3	1498.3	1500.9	1498.3	1488.3	1465.5	1416.2	1327.2	1188.0	1004.1
110°	1433.6	1475.5	1493.5	1502.5	1493.5	1475.5	1433.6	1362.7	1252.9	1108.1	935.4



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1364.9	1415.6	1440.8	1455.3	1440.8	1415.6	1364.9	1284.4	1174.6	1037.8	885.1
115°	1248.9	1308.8	1340.7	1348.7	1340.7	1308.8	1248.9	1170.0	1074.2	957.4	834.6
117.5°	1151.9	1202.2	1234.5	1240.7	1234.5	1202.2	1151.9	1084.6	1003.3	911.5	809.8
120°	1099.1	1143.1	1169.0	1180.0	1169.0	1143.1	1099.1	1042.2	971.4	891.5	798.6
122.5°	1061.6	1099.1	1121.1	1132.1	1121.1	1099.1	1061.6	1013.5	951.4	878.7	789.1
125°	1022.3	1051.2	1070.2	1076.2	1070.2	1051.2	1022.3	982.3	927.4	858.5	772.7
127.5°	995.7	1021.5	1037.4	1043.4	1037.4	1021.5	995.7	955.6	903.5	834.8	752.7
130°	977.3	1002.3	1018.3	1024.3	1018.3	1002.3	977.3	936.4	883.5	815.6	736.8
132.5°	953.4	981.5	996.7	1002.7	996.7	981.5	953.4	913.3	860.3	794.1	720.0
135°	912.5	940.4	956.4	962.4	956.4	940.4	912.5	872.5	822.6	761.7	696.8
137.5°	864.5	892.1	905.3	912.5	905.3	892.1	864.5	827.2	782.1	730.8	675.9
140°	832.6	854.6	868.5	876.5	868.5	854.6	832.6	797.6	755.7	710.8	663.9
142.5°	799.8	820.2	832.6	838.2	832.6	820.2	799.8	768.9	732.6	694.0	652.7
145°	753.7	770.7	780.7	785.7	780.7	770.7	753.7	728.8	700.8	670.9	636.9
147.5°	715.2	729.8	737.4	739.1	737.4	729.8	715.2	696.8	674.9	650.9	623.9
150°	692.8	705.8	711.8	712.8	711.8	705.8	692.8	676.9	658.9	638.9	616.0
152.5°	673.7	684.2	687.8	688.8	687.8	684.2	673.7	660.1	645.3	626.9	607.2
155°	646.9	654.9	657.9	657.9	657.9	654.9	646.9	636.9	624.9	610.0	594.0
157.5°	622.9	628.9	630.7	630.7	630.7	628.9	622.9	615.4	605.8	593.2	579.8
160°	607.0	613.0	614.0	614.0	614.0	613.0	607.0	601.0	593.0	582.0	571.0
162.5°	591.8	597.8	598.8	598.0	598.8	597.8	591.8	587.4	580.2	571.6	562.2
165°	572.0	576.0	575.0	574.0	575.0	576.0	572.0	568.0	563.0	556.1	550.1
167.5°	553.5	556.1	555.9	555.1	555.9	556.1	553.5	551.5	548.5	542.9	538.3
170°	543.1	544.1	543.1	543.1	543.1	544.1	543.1	541.1	538.1	534.1	531.1
172.5°	532.7	533.7	532.7	531.1	532.7	533.7	532.7	531.5	529.3	526.9	524.7
175°	519.1	521.1	519.1	517.1	519.1	521.1	519.1	519.1	519.1	517.1	516.1
177.5°	511.3	512.1	510.5	508.9	510.5	512.1	511.3	512.1	511.3	511.3	510.5
180°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1895.4	1899.9	1910.1	1921.6	1931.2	1939.5	1945.9	1954.8	1963.1	1974.6	1985.5
5°	1780.5	1791.6	1807.6	1826.8	1850.7	1866.7	1886.6	1904.2	1929.8	1955.3	1980.1
7.5°	1679.5	1691.8	1715.3	1741.8	1770.2	1796.4	1820.1	1851.0	1884.9	1922.1	1963.6
10°	1614.4	1628.0	1655.9	1686.2	1719.8	1745.3	1777.3	1814.0	1852.3	1897.8	1948.9
12.5°	1555.6	1568.6	1602.2	1633.2	1668.0	1696.1	1733.2	1770.6	1821.7	1871.0	1929.1
15°	1441.1	1475.5	1513.8	1550.5	1592.0	1626.4	1671.1	1709.4	1758.1	1827.6	1893.8
17.5°	1314.0	1350.6	1398.2	1454.9	1510.6	1553.1	1598.4	1646.0	1704.0	1774.9	1851.4
20°	1239.9	1269.5	1322.2	1385.2	1449.9	1509.0	1550.5	1603.2	1663.1	1739.7	1818.8
22.5°	1184.4	1209.4	1250.6	1313.7	1383.5	1452.1	1505.2	1557.2	1623.5	1700.1	1786.2
25°	1101.0	1128.2	1164.1	1207.2	1287.0	1359.7	1429.2	1489.0	1559.3	1635.9	1731.7
27.5°	1031.7	1055.3	1088.2	1133.1	1186.8	1266.9	1351.1	1419.4	1491.4	1573.7	1669.6
30°	990.8	1010.0	1037.1	1082.6	1133.7	1205.6	1291.0	1370.9	1443.5	1529.0	1628.8
32.5°	948.0	968.5	995.0	1030.9	1085.8	1146.2	1231.6	1319.1	1396.3	1483.6	1581.5
35°	891.0	907.0	930.9	967.7	1017.2	1069.9	1145.7	1235.9	1317.4	1410.8	1504.2
37.5°	833.4	852.2	871.1	903.8	944.4	1001.0	1063.2	1155.3	1245.5	1330.8	1422.0
40°	800.8	812.0	832.7	859.1	902.2	952.5	1010.8	1101.0	1191.2	1275.9	1367.7
42.5°	764.4	776.9	794.4	820.8	859.4	908.4	965.4	1043.5	1137.6	1219.7	1303.2
45°	713.8	721.0	738.5	760.9	792.8	842.3	895.0	964.5	1053.1	1131.3	1204.8
47.5°	662.7	668.9	679.9	700.4	736.1	775.9	825.2	887.5	965.3	1043.5	1105.6
50°	627.5	633.1	643.5	662.7	694.6	733.7	782.4	838.3	907.8	982.8	1034.7
52.5°	592.4	595.5	605.2	626.9	653.7	692.2	735.8	787.2	852.2	914.5	967.0
55°	536.5	543.7	550.1	566.1	591.6	628.3	667.5	716.2	766.5	819.2	863.9
57.5°	478.2	486.1	495.3	509.4	529.7	563.8	599.0	638.4	681.4	725.1	762.6
60°	439.9	447.1	455.1	471.1	489.4	516.6	554.9	589.2	622.0	661.9	699.4
62.5°	402.2	409.4	418.7	431.5	449.2	475.1	507.0	536.9	570.9	605.7	633.6
65°	346.5	352.1	359.3	371.3	388.0	411.2	437.5	460.7	491.0	516.6	542.1
67.5°	285.4	296.1	305.5	315.2	329.4	351.0	370.0	392.2	412.8	431.8	455.1
70°	245.1	257.1	265.9	276.2	289.8	308.2	326.5	341.7	358.5	376.8	397.6
72.5°	211.3	220.7	227.5	238.6	250.9	267.9	285.0	297.6	311.2	323.8	344.0
75°	166.9	170.9	175.7	184.4	195.6	208.4	222.0	233.1	241.1	252.3	266.7
77.5°	119.9	127.6	130.8	137.0	145.0	153.0	161.9	171.3	179.0	183.0	194.0
80°	91.8	95.0	98.2	107.0	111.8	119.8	126.1	134.9	138.1	142.1	152.5
82.5°	71.4	73.3	75.2	77.6	80.5	88.5	94.9	100.4	103.6	105.1	112.9
85°	41.5	42.3	43.1	43.9	44.7	44.7	47.9	51.9	57.5	57.5	59.9
87.5°	17.4	18.3	17.9	16.8	18.1	16.9	17.6	17.4	19.1	20.4	21.9
90°	17.0	18.0	16.0	14.0	14.0	8.0	8.0	7.0	6.0	3.0	1.0
92.5°	263.8	316.7	277.1	201.7	124.2	73.5	52.7	38.1	26.0	16.6	11.4
95°	836.6	813.6	614.0	375.4	211.6	124.8	82.9	58.9	45.9	35.9	32.9
97.5°	1051.0	856.9	574.6	337.4	202.3	135.4	100.2	79.7	67.7	59.1	59.1
100°	1058.2	802.6	521.1	317.5	204.7	145.8	113.8	94.8	82.9	75.9	75.9
102.5°	998.3	734.8	485.2	311.9	212.6	159.3	129.0	110.8	99.6	93.4	91.8
105°	889.5	654.9	454.2	314.5	231.6	183.7	154.7	136.8	124.8	119.8	116.8
107.5°	801.6	610.2	448.6	329.2	253.8	209.8	181.3	164.1	151.3	146.4	144.4
110°	757.7	595.0	450.2	340.4	270.5	226.6	199.7	181.7	169.7	164.7	162.7



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	733.0	587.8	455.0	352.4	286.5	244.2	217.2	199.3	188.1	182.3	180.3
115°	709.8	584.0	464.2	371.4	311.5	271.5	244.6	225.6	215.6	208.6	205.7
117.5°	699.4	583.0	474.0	390.7	335.6	297.7	269.7	252.0	241.0	234.8	232.0
120°	693.8	583.0	481.2	404.3	352.4	314.5	286.5	269.5	258.6	251.6	249.6
122.5°	687.4	582.2	488.4	417.1	368.4	330.4	303.3	284.7	274.5	267.5	265.6
125°	676.9	581.0	499.2	436.3	390.3	354.4	326.4	307.5	296.5	290.5	286.5
127.5°	662.7	578.8	507.7	452.8	410.7	376.0	347.8	328.0	315.5	308.3	305.1
130°	653.9	578.0	514.1	463.2	424.3	390.3	361.4	342.4	327.4	319.5	315.5
132.5°	645.9	577.2	519.7	473.6	435.5	401.5	374.2	353.6	339.4	329.0	325.8
135°	633.9	576.0	528.1	487.2	451.2	418.3	392.3	371.4	354.4	344.4	340.4
137.5°	623.5	575.8	533.1	496.8	463.2	432.5	407.7	385.9	369.8	358.8	355.0
140°	618.0	575.0	537.1	503.1	471.2	441.3	417.3	396.3	379.4	368.4	365.4
142.5°	613.2	575.0	540.3	507.9	478.4	449.2	426.1	405.9	389.7	379.6	376.6
145°	605.0	573.0	542.1	513.1	486.2	460.2	438.3	419.3	405.3	395.3	392.3
147.5°	597.6	569.4	543.1	517.7	494.2	469.8	450.0	434.3	419.9	411.1	410.1
150°	592.0	567.0	543.1	520.1	498.2	476.2	457.2	442.3	430.3	422.3	421.3
152.5°	585.6	563.0	541.5	521.7	501.4	481.8	464.4	451.0	439.9	431.9	431.7
155°	576.0	557.1	539.1	523.1	506.1	489.2	474.2	463.2	453.2	447.2	446.2
157.5°	566.2	550.9	536.5	523.1	509.5	495.2	483.4	473.8	466.0	460.4	460.4
160°	559.1	546.1	534.1	523.1	511.1	499.2	488.2	480.2	473.2	469.2	469.2
162.5°	552.7	541.3	531.7	523.1	512.7	501.6	493.0	485.8	479.6	476.4	477.2
165°	542.1	534.1	527.1	521.1	513.1	504.1	498.2	493.2	488.2	486.2	486.2
167.5°	532.5	526.9	522.3	518.7	512.9	506.3	501.8	499.0	495.2	494.2	495.2
170°	526.1	522.1	519.1	517.1	512.1	507.1	504.1	502.2	499.2	498.2	499.2
172.5°	520.5	517.3	515.9	515.5	511.3	507.9	505.7	504.5	502.3	502.2	503.1
175°	514.1	512.1	512.1	513.1	510.1	508.1	508.1	507.1	506.1	506.1	507.1
177.5°	509.7	508.9	508.9	510.5	508.9	508.1	508.1	508.1	507.3	508.1	508.9
180°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1993.8	1999.5	2005.9	2018.1	2028.3	2032.8	2041.7	2048.1	2046.2	2055.1	2070.4
5°	2001.6	2023.2	2047.9	2073.5	2102.2	2126.2	2145.3	2164.5	2179.7	2198.0	2225.2
7.5°	2000.3	2038.7	2080.3	2126.2	2173.3	2214.0	2251.7	2290.0	2324.0	2361.2	2409.9
10°	1995.2	2046.3	2098.2	2158.1	2218.0	2274.7	2325.8	2373.7	2419.2	2467.9	2529.4
12.5°	1989.5	2048.2	2111.0	2183.0	2257.6	2325.8	2385.8	2454.8	2511.8	2574.6	2645.6
15°	1964.1	2043.1	2128.6	2222.0	2311.4	2403.2	2485.4	2570.1	2649.1	2724.2	2813.6
17.5°	1935.0	2026.2	2127.0	2237.3	2344.8	2456.4	2554.0	2660.6	2741.4	2842.2	2925.2
20°	1911.4	2009.6	2117.4	2241.1	2363.3	2487.0	2594.8	2703.4	2794.4	2895.8	3001.2
22.5°	1882.6	1990.4	2107.2	2235.4	2363.3	2498.5	2617.8	2725.8	2838.5	2952.7	3061.3
25°	1836.3	1948.1	2071.9	2212.4	2359.3	2497.4	2625.2	2759.3	2880.7	3004.4	3101.8
27.5°	1779.5	1896.9	2027.3	2172.3	2323.1	2464.5	2615.0	2757.9	2880.0	2999.1	3084.1
30°	1734.1	1857.9	1983.2	2130.2	2286.6	2438.3	2599.6	2742.5	2871.1	2978.1	3026.0
32.5°	1687.5	1804.9	1934.1	2082.9	2243.2	2406.4	2566.4	2712.5	2831.5	2895.7	2896.9
35°	1606.4	1716.6	1850.7	1996.8	2161.3	2338.5	2500.6	2644.3	2717.0	2722.6	2644.3
37.5°	1517.9	1619.0	1745.6	1891.9	2072.0	2248.3	2413.9	2509.7	2534.0	2452.7	2308.0
40°	1454.7	1548.1	1670.3	1820.4	1999.2	2181.3	2332.2	2402.4	2376.9	2245.1	2083.8
42.5°	1388.3	1475.3	1593.0	1741.2	1920.7	2104.6	2233.2	2270.8	2203.1	2051.0	1862.2
45°	1279.9	1359.7	1476.3	1625.6	1798.0	1970.5	2067.9	2048.7	1936.1	1755.7	1544.1
47.5°	1167.0	1244.1	1349.0	1487.1	1663.7	1812.5	1878.5	1820.7	1660.5	1462.0	1289.9
50°	1092.2	1171.3	1267.9	1399.6	1560.9	1704.6	1746.9	1659.1	1481.0	1290.2	1132.1
52.5°	1018.8	1086.3	1181.0	1308.3	1462.5	1583.9	1606.4	1505.2	1321.4	1150.3	1010.1
55°	907.0	968.5	1048.3	1168.1	1301.4	1404.4	1392.4	1262.3	1095.4	949.3	839.1
57.5°	798.9	845.2	919.0	1031.2	1148.3	1217.4	1173.7	1062.7	907.2	787.6	694.6
60°	727.4	770.5	839.1	937.3	1040.3	1079.4	1042.7	922.2	799.2	689.8	611.6
62.5°	659.6	697.7	756.7	847.9	931.1	954.3	915.0	809.7	698.9	605.5	540.7
65°	561.3	596.4	646.7	711.4	768.9	780.0	754.5	646.7	562.9	484.6	439.9
67.5°	472.0	495.0	534.3	590.2	620.7	627.2	577.9	510.2	436.3	388.2	354.5
70°	412.0	427.9	464.7	495.0	519.8	520.6	475.1	420.8	364.1	325.0	300.2
72.5°	353.9	369.2	397.0	417.7	436.7	430.5	388.8	346.0	300.2	270.7	252.3
75°	273.1	286.6	301.0	310.6	310.6	302.6	272.3	240.3	214.0	196.4	190.8
77.5°	198.5	209.7	214.5	213.0	210.1	197.7	178.5	157.6	148.2	139.9	135.7
80°	155.7	160.5	162.1	158.1	153.3	138.9	126.1	117.4	108.6	105.4	103.8
82.5°	115.4	119.6	115.4	116.6	106.0	94.2	87.2	84.2	80.5	79.2	77.6
85°	61.5	60.7	59.1	55.1	47.9	46.3	45.5	44.7	43.1	43.9	42.3
87.5°	21.7	20.4	18.0	17.6	17.6	17.5	18.1	18.5	18.9	18.1	19.6
90°	3.0	6.0	7.0	8.0	8.0	14.0	14.0	16.0	18.0	17.0	18.0
92.5°	16.6	26.0	38.1	52.7	73.5	124.2	201.7	277.1	316.7	263.8	196.1
95°	35.9	45.9	58.9	82.9	124.8	211.6	375.4	614.0	813.6	836.6	739.7
97.5°	59.1	67.7	79.7	100.2	135.4	202.3	337.4	574.6	856.9	1051.0	1093.0
100°	75.9	82.9	94.8	113.8	145.8	204.7	317.5	521.1	802.6	1058.2	1204.0
102.5°	93.4	99.6	110.8	129.0	159.3	212.6	311.9	485.2	734.8	998.3	1198.4
105°	119.8	124.8	136.8	154.7	183.7	231.6	314.5	454.2	654.9	889.5	1118.1
107.5°	146.4	151.3	164.1	181.3	209.8	253.8	329.2	448.6	610.2	801.6	1004.1
110°	164.7	169.7	181.7	199.7	226.6	270.5	340.4	450.2	595.0	757.7	935.4





TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.3	188.1	199.3	217.2	244.2	286.5	352.4	455.0	587.8	733.0	885.1
115°	208.6	215.6	225.6	244.6	271.5	311.5	371.4	464.2	584.0	709.8	834.6
117.5°	234.8	241.0	252.0	269.7	297.7	335.6	390.7	474.0	583.0	699.4	809.8
120°	251.6	258.6	269.5	286.5	314.5	352.4	404.3	481.2	583.0	693.8	798.6
122.5°	267.5	274.5	284.7	303.3	330.4	368.4	417.1	488.4	582.2	687.4	789.1
125°	290.5	296.5	307.5	326.4	354.4	390.3	436.3	499.2	581.0	676.9	772.7
127.5°	308.3	315.5	328.0	347.8	376.0	410.7	452.8	507.7	578.8	662.7	752.7
130°	319.5	327.4	342.4	361.4	390.3	424.3	463.2	514.1	578.0	653.9	736.8
132.5°	329.0	339.4	353.6	374.2	401.5	435.5	473.6	519.7	577.2	645.9	720.0
135°	344.4	354.4	371.4	392.3	418.3	451.2	487.2	528.1	576.0	633.9	696.8
137.5°	358.8	369.8	385.9	407.7	432.5	463.2	496.8	533.1	575.8	623.5	675.9
140°	368.4	379.4	396.3	417.3	441.3	471.2	503.1	537.1	575.0	618.0	663.9
142.5°	379.6	389.7	405.9	426.1	449.2	478.4	507.9	540.3	575.0	613.2	652.7
145°	395.3	405.3	419.3	438.3	460.2	486.2	513.1	542.1	573.0	605.0	636.9
147.5°	411.1	419.9	434.3	450.0	469.8	494.2	517.7	543.1	569.4	597.6	623.9
150°	422.3	430.3	442.3	457.2	476.2	498.2	520.1	543.1	567.0	592.0	616.0
152.5°	431.9	439.9	451.0	464.4	481.8	501.4	521.7	541.5	563.0	585.6	607.2
155°	447.2	453.2	463.2	474.2	489.2	506.1	523.1	539.1	557.1	576.0	594.0
157.5°	460.4	466.0	473.8	483.4	495.2	509.5	523.1	536.5	550.9	566.2	579.8
160°	469.2	473.2	480.2	488.2	499.2	511.1	523.1	534.1	546.1	559.1	571.0
162.5°	476.4	479.6	485.8	493.0	501.6	512.7	523.1	531.7	541.3	552.7	562.2
165°	486.2	488.2	493.2	498.2	504.1	513.1	521.1	527.1	534.1	542.1	550.1
167.5°	494.2	495.2	499.0	501.8	506.3	512.9	518.7	522.3	526.9	532.5	538.3
170°	498.2	499.2	502.2	504.1	507.1	512.1	517.1	519.1	522.1	526.1	531.1
172.5°	502.2	502.3	504.5	505.7	507.9	511.3	515.5	515.9	517.3	520.5	524.7
175°	506.1	506.1	507.1	508.1	508.1	510.1	513.1	512.1	512.1	514.1	516.1
177.5°	508.1	507.3	508.1	508.1	508.1	508.9	510.5	508.9	508.9	509.7	510.5
180°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2078.7	2081.3	2083.2	2089.6	2090.2	2096.0	2090.2
5°	2250.7	2261.9	2279.5	2297.0	2298.6	2309.8	2289.8
7.5°	2443.6	2469.5	2485.6	2514.0	2525.2	2532.2	2520.7
10°	2576.5	2600.4	2642.7	2663.5	2684.3	2687.4	2677.9
12.5°	2704.9	2742.9	2776.2	2815.5	2814.6	2842.7	2832.4
15°	2875.9	2915.0	2961.3	3005.2	3021.2	3021.2	3034.0
17.5°	2997.9	3069.6	3117.5	3152.0	3189.6	3196.2	3191.7
20°	3080.3	3157.7	3208.8	3253.5	3279.1	3286.3	3286.3
22.5°	3141.6	3207.5	3257.4	3297.6	3318.7	3327.1	3324.6
25°	3184.1	3240.7	3271.1	3283.1	3288.6	3287.1	3271.9
27.5°	3125.9	3123.4	3104.2	3067.5	3039.9	3023.1	3003.9
30°	3014.8	2973.3	2925.4	2872.7	2804.8	2752.9	2736.9
32.5°	2849.4	2756.1	2675.0	2587.2	2514.2	2462.3	2440.6
35°	2529.4	2381.7	2261.1	2155.7	2079.1	2031.2	2015.2
37.5°	2149.6	2006.7	1857.4	1755.2	1691.7	1643.3	1625.2
40°	1908.2	1752.5	1622.4	1526.6	1461.1	1414.0	1413.2
42.5°	1687.8	1539.2	1416.7	1347.7	1277.1	1246.0	1245.8
45°	1382.0	1263.1	1159.3	1105.0	1062.7	1037.1	1029.9
47.5°	1144.3	1045.9	976.8	933.5	899.0	882.7	872.2
50°	1010.8	924.6	869.5	831.9	812.8	792.0	790.4
52.5°	899.6	830.0	787.1	756.6	732.3	719.8	720.2
55°	756.1	701.0	670.7	647.5	628.3	618.8	614.8
57.5°	637.0	595.6	573.6	552.3	544.2	536.7	534.6
60°	562.9	534.9	514.2	497.4	485.4	483.0	482.2
62.5°	501.6	472.3	458.0	445.0	436.3	432.6	431.1
65°	413.6	392.0	379.2	368.9	365.7	360.1	359.3
67.5°	333.4	320.5	312.0	304.8	300.5	300.2	300.2
70°	284.2	277.0	269.9	265.9	263.5	261.9	261.9
72.5°	242.1	236.8	230.9	228.8	228.3	226.7	226.1
75°	184.4	178.8	179.6	175.7	172.5	168.5	166.1
77.5°	130.8	126.8	126.0	125.5	122.8	122.3	123.6
80°	101.4	97.4	96.6	97.4	96.6	94.2	94.2
82.5°	77.1	73.8	73.0	72.5	71.7	72.5	71.2
85°	41.5	39.9	39.9	39.9	41.5	40.7	39.9
87.5°	18.5	18.0	18.7	18.2	18.4	17.6	18.2
90°	19.0	20.0	20.0	21.0	22.0	21.0	21.0
92.5°	147.6	117.4	97.4	85.7	80.3	76.9	76.9
95°	585.0	451.2	354.4	305.5	274.5	256.6	243.6
97.5°	1035.4	937.8	833.6	761.9	701.8	671.9	651.1
100°	1223.9	1175.0	1101.1	1014.3	953.4	923.4	915.5
102.5°	1297.4	1311.6	1280.8	1227.5	1183.4	1151.9	1145.5
105°	1290.8	1389.6	1430.6	1432.6	1424.6	1410.6	1404.6
107.5°	1188.0	1327.2	1416.2	1465.5	1488.3	1498.3	1500.9
110°	1108.1	1252.9	1362.7	1433.6	1475.5	1493.5	1502.5



TEST NUMBER: P333005

CATALOG NUMBER: SA4XXRDIP-C1195D1035U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1037.8	1174.6	1284.4	1364.9	1415.6	1440.8	1455.3
115°	957.4	1074.2	1170.0	1248.9	1308.8	1340.7	1348.7
117.5°	911.5	1003.3	1084.6	1151.9	1202.2	1234.5	1240.7
120°	891.5	971.4	1042.2	1099.1	1143.1	1169.0	1180.0
122.5°	878.7	951.4	1013.5	1061.6	1099.1	1121.1	1132.1
125°	858.5	927.4	982.3	1022.3	1051.2	1070.2	1076.2
127.5°	834.8	903.5	955.6	995.7	1021.5	1037.4	1043.4
130°	815.6	883.5	936.4	977.3	1002.3	1018.3	1024.3
132.5°	794.1	860.3	913.3	953.4	981.5	996.7	1002.7
135°	761.7	822.6	872.5	912.5	940.4	956.4	962.4
137.5°	730.8	782.1	827.2	864.5	892.1	905.3	912.5
140°	710.8	755.7	797.6	832.6	854.6	868.5	876.5
142.5°	694.0	732.6	768.9	799.8	820.2	832.6	838.2
145°	670.9	700.8	728.8	753.7	770.7	780.7	785.7
147.5°	650.9	674.9	696.8	715.2	729.8	737.4	739.1
150°	638.9	658.9	676.9	692.8	705.8	711.8	712.8
152.5°	626.9	645.3	660.1	673.7	684.2	687.8	688.8
155°	610.0	624.9	636.9	646.9	654.9	657.9	657.9
157.5°	593.2	605.8	615.4	622.9	628.9	630.7	630.7
160°	582.0	593.0	601.0	607.0	613.0	614.0	614.0
162.5°	571.6	580.2	587.4	591.8	597.8	598.8	598.0
165°	556.1	563.0	568.0	572.0	576.0	575.0	574.0
167.5°	542.9	548.5	551.5	553.5	556.1	555.9	555.1
170°	534.1	538.1	541.1	543.1	544.1	543.1	543.1
172.5°	526.9	529.3	531.5	532.7	533.7	532.7	531.1
175°	517.1	519.1	519.1	519.1	521.1	519.1	517.1
177.5°	511.3	511.3	512.1	511.3	512.1	510.5	508.9
180°	508.1	508.1	508.1	508.1	508.1	508.1	508.1

(END OF REPORT)