

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: P331449

Luminaire Tested: **SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331449  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

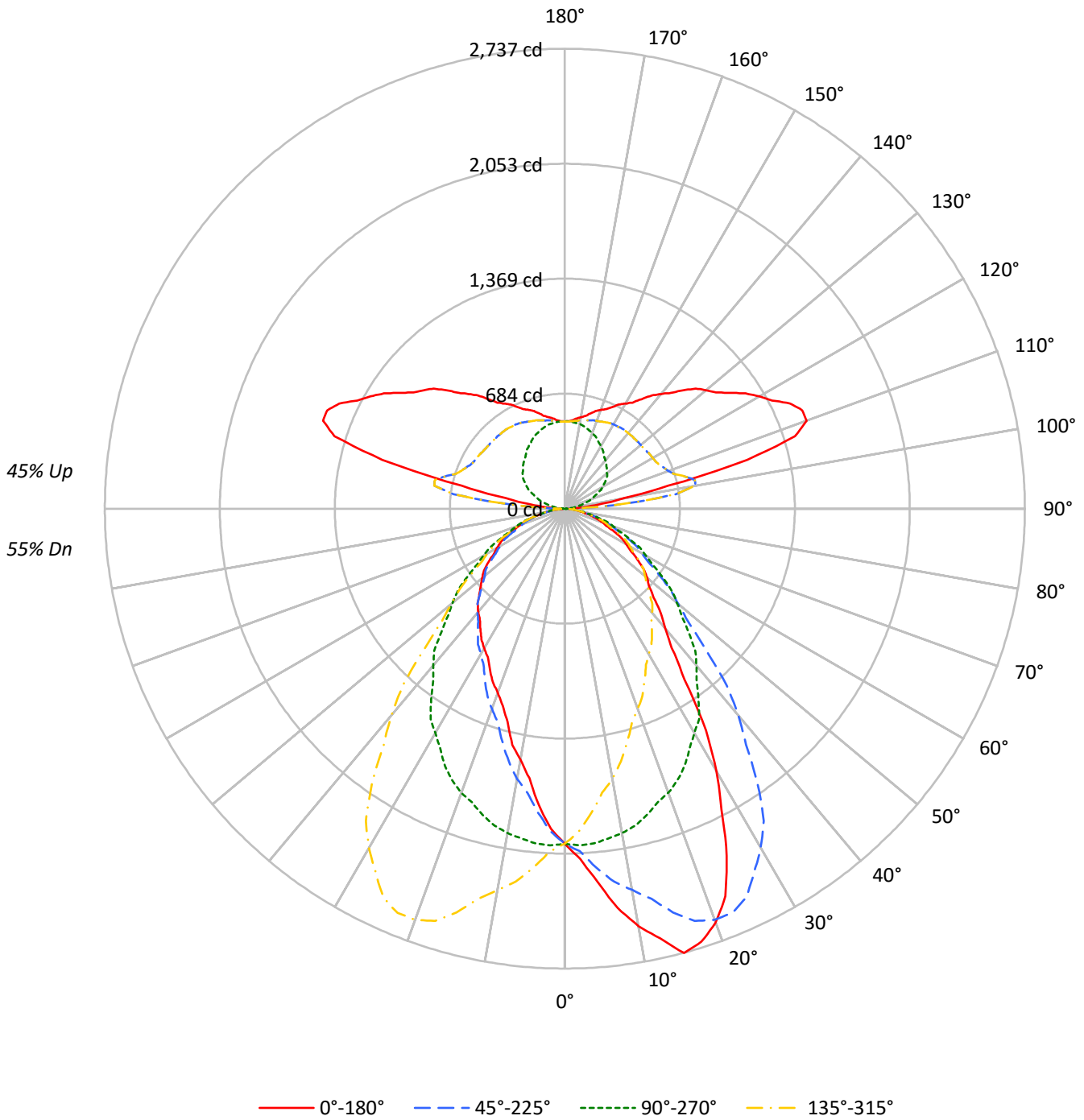
Lumens per Lamp: N/A  
Luminaire Lumens: 8015.3 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52	47				
2	91	84	78	73	84	78	73	69	67	64	60	58	55	52	49	47	45	40				
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	39	35				
4	77	66	58	52	71	62	55	50	54	48	44	46	42	39	39	36	34	30				
5	70	59	51	45	65	55	48	43	48	43	39	42	37	34	36	32	30	27				
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27	24				
7	60	48	40	35	56	45	38	33	40	34	30	35	30	27	30	26	24	21				
8	56	44	36	31	52	41	35	30	37	31	27	32	27	24	28	24	22	19				
9	52	40	33	28	49	38	31	27	34	28	24	29	25	22	26	22	20	17				
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18	16				

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

	0°	90°	180°	270°
0°	32195	32195	32195	32195
5°	36094	32405	28716	32405
10°	41361	32139	24851	32139
15°	45757	31550	21956	31550
20°	45060	30917	20015	30917
25°	40631	30077	18786	30077
30°	33575	28732	17889	28732
35°	24471	27325	17251	27325
40°	19545	25665	16895	25665
45°	17080	23745	16413	23745
50°	16053	21886	16093	21886
55°	14798	19997	15662	19997
60°	13563	17990	14996	17990
65°	12355	16191	14346	16191
70°	11216	14436	13388	14436
75°	9944	12477	11859	12477
80°	8554	10330	9549	10330
85°	7669	7669	5687	7669



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CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	2.4
10°-20°	552.1	6.9
20°-30°	801.2	10.0
30°-40°	845.5	10.5
40°-50°	748.6	9.3
50°-60°	597.4	7.5
60°-70°	406.1	5.1
70°-80°	208.2	2.6
80°-90°	54.9	0.7
90°-100°	207.5	2.6
100°-110°	704.2	8.8
110°-120°	748.1	9.3
120°-130°	615.8	7.7
130°-140°	494.5	6.2
140°-150°	373.7	4.7
150°-160°	262.6	3.3
160°-170°	154.6	1.9
170°-180°	50.3	0.6
0°-30°	1543.2	19.3
0°-40°	2388.7	29.8
0°-60°	3734.8	46.6
0°-90°	4403.9	54.9
90°-120°	1659.8	20.7
90°-150°	3143.8	39.2
90°-180°	3611.0	45.1
0°-180°	8015.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1994	1994	1994	1994	1994	
5°	2227	1999	1772	1999	2227	222
15°	2737	1888	1314	1888	2737	755
25°	2281	1688	1054	1688	2281	1031
35°	1242	1386	875	1386	1242	807
45°	748	1040	719	1040	748	588
55°	526	710	556	710	526	471
65°	323	424	376	424	323	322
75°	159	200	190	200	159	170
85°	41	41	31	41	41	46
90°	33	1	33	1	33	20
95°	114	35	114	35	114	148
105°	1125	122	1125	122	1125	1088
115°	1480	215	1480	215	1480	1449
125°	1201	299	1201	299	1201	1085
135°	995	351	995	351	995	773
145°	794	401	794	401	794	505
155°	668	456	668	456	668	312
165°	586	497	586	497	586	168
175°	528	518	528	518	528	51
180°	519	519	519	519	519	



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2086.0	2086.6	2087.8	2078.0	2076.8	2076.8	2068.2	2060.9	2052.3	2040.6	2041.9
5°	2227.0	2235.4	2238.5	2229.3	2215.5	2214.0	2201.0	2179.5	2159.6	2143.5	2132.0
7.5°	2395.3	2398.7	2391.2	2379.1	2368.8	2350.4	2326.2	2302.4	2269.2	2238.7	2216.0
10°	2522.8	2527.4	2514.4	2496.8	2482.2	2460.8	2425.5	2389.5	2345.8	2303.7	2269.9
12.5°	2619.7	2631.0	2614.3	2612.0	2587.1	2557.6	2515.6	2497.4	2435.9	2377.2	2341.1
15°	2737.4	2736.6	2738.2	2723.6	2705.2	2700.6	2656.2	2607.9	2521.3	2486.8	2427.0
17.5°	2703.4	2715.0	2720.4	2720.2	2719.8	2716.9	2702.6	2672.1	2628.7	2572.8	2503.8
20°	2622.5	2637.8	2640.1	2657.7	2667.7	2680.7	2686.1	2677.6	2650.8	2604.1	2544.3
22.5°	2497.4	2501.7	2508.9	2536.3	2557.9	2590.6	2607.6	2635.9	2625.7	2602.8	2552.9
25°	2280.7	2273.0	2299.8	2313.6	2363.4	2415.5	2453.1	2494.5	2531.3	2553.5	2538.9
27.5°	2020.4	2008.9	2049.1	2085.7	2126.2	2182.6	2241.1	2310.2	2367.7	2439.6	2464.3
30°	1800.9	1807.8	1846.1	1885.2	1946.5	2026.2	2092.1	2168.0	2250.0	2330.5	2386.4
32.5°	1564.3	1590.8	1615.0	1674.9	1728.9	1817.8	1914.3	2009.2	2111.5	2203.0	2289.6
35°	1241.5	1272.1	1305.9	1349.5	1425.4	1513.5	1607.8	1735.8	1875.3	2000.2	2102.9
37.5°	1045.0	1040.1	1059.4	1091.0	1152.4	1223.6	1332.1	1458.5	1622.7	1769.5	1914.3
40°	927.3	924.2	938.0	967.1	1013.9	1066.0	1161.0	1272.1	1424.6	1604.0	1776.4
42.5°	846.4	848.2	855.9	876.4	908.4	951.3	1022.5	1117.0	1256.7	1425.6	1610.9
45°	748.0	753.3	761.8	771.7	790.1	825.4	865.2	932.7	1043.0	1184.0	1366.4
47.5°	677.1	677.3	685.9	694.6	705.5	725.4	757.9	800.2	878.1	992.9	1149.7
50°	639.1	633.8	639.9	646.8	658.3	672.1	693.5	733.4	785.5	878.2	1009.3
52.5°	592.5	592.7	598.2	600.8	611.1	624.9	644.5	672.1	719.3	791.8	899.5
55°	525.7	529.5	532.6	537.2	546.4	556.4	571.7	590.1	626.9	681.3	761.0
57.5°	462.9	464.1	467.2	475.9	481.7	490.9	505.5	522.2	546.1	586.4	646.3
60°	420.0	420.0	426.1	429.9	437.6	446.8	458.3	474.4	495.8	528.8	577.1
62.5°	380.7	380.1	382.6	388.8	394.7	403.3	414.7	428.4	448.6	477.9	517.6
65°	323.4	321.9	326.5	328.0	334.1	342.6	351.8	366.3	382.4	403.9	439.1
67.5°	268.2	270.1	272.5	275.4	278.8	287.7	293.8	304.1	317.7	335.5	359.4
70°	237.6	237.6	237.6	239.9	244.5	249.1	255.2	263.6	276.7	292.0	313.4
72.5°	203.2	205.7	208.1	206.8	212.6	215.3	222.7	227.5	239.9	249.7	268.7
75°	159.4	159.4	159.4	163.2	165.5	167.8	172.4	177.0	183.2	195.4	205.4
77.5°	118.9	118.6	119.4	120.3	122.8	125.5	126.9	131.0	136.7	142.4	150.8
80°	92.0	93.5	94.3	95.8	95.8	97.3	98.1	103.5	107.3	111.1	116.5
82.5°	71.1	71.4	71.6	71.9	72.5	73.4	75.4	77.1	78.5	81.7	85.8
85°	41.4	40.6	40.6	42.1	41.4	41.4	42.9	44.4	44.4	45.2	47.5
87.5°	22.5	22.5	23.1	22.5	22.5	22.9	22.5	22.3	23.1	24.0	24.4
90°	32.9	32.9	32.9	32.9	32.9	31.9	29.9	31.9	32.9	33.9	32.9
92.5°	55.3	56.9	56.1	59.3	60.1	66.3	74.7	87.0	109.6	129.7	127.9
95°	113.8	112.8	115.8	123.8	136.7	158.7	200.6	261.5	342.3	391.2	346.3
97.5°	224.0	232.3	246.9	271.5	319.2	391.2	499.2	610.2	700.6	667.9	503.0
100°	357.3	375.3	404.2	447.1	530.0	650.7	787.4	911.2	932.2	788.4	542.9
102.5°	628.8	653.1	689.2	762.5	852.5	980.5	1080.5	1108.4	1018.4	792.4	527.8
105°	1124.8	1138.7	1181.7	1243.5	1305.4	1338.4	1325.4	1212.6	1005.0	739.5	498.0
107.5°	1436.8	1455.3	1463.9	1467.3	1459.5	1411.2	1307.4	1137.6	917.4	682.9	483.2
110°	1531.0	1532.0	1523.0	1504.0	1461.1	1379.3	1251.5	1072.9	862.3	655.7	480.1



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1529.4	1524.0	1507.0	1475.3	1415.6	1321.8	1185.3	1013.8	824.0	638.1	480.8
115°	1480.1	1471.1	1445.1	1399.2	1328.4	1225.6	1094.8	941.1	776.5	618.8	485.0
117.5°	1392.0	1384.5	1357.1	1308.6	1236.4	1139.9	1021.4	886.4	746.5	609.4	492.2
120°	1335.4	1325.4	1296.4	1249.5	1179.7	1088.8	983.1	859.3	730.6	603.8	497.0
122.5°	1276.3	1267.9	1242.1	1196.0	1133.4	1051.3	951.1	837.7	717.0	600.6	502.6
125°	1200.6	1192.6	1167.7	1129.8	1071.9	997.0	909.2	806.4	697.6	594.8	511.0
127.5°	1134.4	1128.0	1106.4	1070.9	1020.4	951.3	868.5	775.5	679.7	591.4	519.6
130°	1096.8	1088.8	1068.9	1035.0	986.1	920.2	841.3	755.5	667.7	589.8	526.0
132.5°	1057.7	1050.5	1032.2	998.2	950.1	888.2	815.8	736.3	658.1	589.0	532.3
135°	995.0	991.0	973.1	940.1	897.2	841.3	775.5	709.6	644.7	587.8	539.9
137.5°	933.6	927.6	911.8	883.5	844.3	795.6	743.3	688.2	635.3	587.6	546.7
140°	891.2	885.3	870.3	844.3	812.4	768.5	722.6	674.7	629.8	586.8	549.9
142.5°	848.9	847.7	834.4	810.8	780.5	743.7	704.2	663.5	624.2	586.8	552.3
145°	794.4	791.4	781.5	764.5	740.5	711.6	680.7	647.7	616.8	584.8	554.9
147.5°	748.7	746.9	740.1	726.6	706.8	685.6	661.5	635.5	609.2	581.3	555.7
150°	721.6	720.6	714.6	702.6	687.6	669.7	648.7	626.8	602.8	578.9	554.9
152.5°	698.4	698.2	693.8	683.4	671.7	656.1	638.3	618.0	597.2	574.9	553.3
155°	667.7	669.7	665.7	658.7	647.7	636.7	621.8	605.8	586.8	567.9	550.9
157.5°	641.5	641.5	639.7	633.9	626.2	617.6	605.0	591.6	577.1	560.7	546.3
160°	624.8	624.8	623.8	618.8	611.8	604.8	593.8	582.8	569.9	555.9	543.9
162.5°	608.8	609.6	608.6	605.2	598.2	592.8	583.4	574.1	563.5	551.9	541.5
165°	585.8	586.8	586.8	582.8	578.9	574.9	567.9	560.9	552.9	543.9	536.9
167.5°	564.7	565.9	566.1	563.9	562.1	558.5	553.7	548.3	542.5	536.9	532.3
170°	551.9	553.9	554.9	551.9	550.9	548.9	544.9	541.9	536.9	532.9	530.0
172.5°	541.5	542.7	543.7	542.3	541.3	540.1	536.9	534.7	531.4	528.2	526.8
175°	528.0	530.0	531.0	530.0	530.0	529.0	528.0	527.0	524.0	523.0	522.0
177.5°	519.8	521.4	522.2	522.2	522.2	522.2	521.4	521.4	519.8	519.0	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2046.2	2041.3	2038.2	2027.2	2017.3	2007.5	2004.5	2005.7	1992.2	1979.3	1973.8
5°	2125.9	2110.5	2096.0	2075.3	2050.8	2023.9	2010.1	1999.4	1972.6	1943.5	1926.6
7.5°	2197.3	2175.4	2147.3	2108.4	2072.7	2030.5	2003.7	1979.9	1940.7	1899.6	1874.5
10°	2240.8	2210.9	2174.9	2127.4	2083.7	2032.4	1996.3	1960.3	1914.3	1865.3	1834.6
12.5°	2278.2	2237.9	2202.5	2141.5	2089.8	2025.6	1982.9	1932.1	1883.7	1825.4	1795.4
15°	2367.3	2292.9	2225.5	2156.5	2092.9	2003.2	1955.7	1887.5	1823.9	1751.9	1717.4
17.5°	2436.1	2352.5	2246.3	2158.7	2084.5	1985.2	1915.4	1833.7	1758.5	1676.2	1629.3
20°	2475.3	2379.5	2265.3	2161.1	2072.2	1958.8	1882.9	1799.4	1711.3	1618.5	1568.0
22.5°	2498.6	2397.9	2285.0	2151.9	2047.7	1937.3	1841.8	1750.3	1661.0	1560.9	1507.9
25°	2506.0	2414.0	2294.5	2144.3	2017.0	1892.1	1777.2	1688.3	1580.2	1486.7	1409.3
27.5°	2469.5	2403.6	2288.6	2129.8	1981.6	1835.6	1707.4	1606.7	1492.7	1391.2	1313.4
30°	2424.7	2386.4	2274.5	2115.1	1953.4	1796.3	1655.3	1541.1	1427.7	1325.0	1245.3
32.5°	2355.5	2347.2	2248.8	2094.3	1923.4	1746.7	1600.8	1485.3	1359.7	1258.8	1182.8
35°	2219.4	2256.1	2194.1	2047.7	1866.8	1676.0	1518.1	1386.3	1256.1	1159.5	1088.2
37.5°	2037.0	2128.3	2112.1	1979.5	1790.5	1599.1	1424.8	1287.0	1162.9	1065.4	995.5
40°	1911.3	2027.8	2044.6	1927.4	1736.6	1539.6	1354.9	1217.7	1096.6	1007.8	937.2
42.5°	1776.4	1912.5	1958.8	1864.8	1677.7	1477.1	1292.4	1150.3	1030.4	944.0	881.5
45°	1550.3	1730.4	1814.0	1760.3	1579.5	1374.1	1184.0	1039.9	931.1	849.9	801.6
47.5°	1339.0	1535.8	1648.1	1629.1	1470.2	1266.8	1078.9	940.6	834.7	769.9	726.7
50°	1189.4	1391.7	1527.3	1533.5	1391.7	1190.1	1001.6	871.3	774.0	713.5	678.2
52.5°	1059.4	1252.5	1400.4	1432.9	1304.0	1110.4	932.3	802.7	717.0	661.4	629.8
55°	889.7	1053.0	1217.0	1276.7	1173.3	989.4	824.6	710.4	629.9	591.6	564.0
57.5°	739.7	875.8	1027.2	1093.3	1029.5	872.1	717.6	618.4	553.2	519.6	498.4
60°	660.6	767.9	902.8	981.7	926.5	786.3	651.4	557.1	503.5	473.6	453.7
62.5°	587.0	682.1	796.1	868.3	838.2	706.0	585.2	502.0	455.7	427.6	413.2
65°	484.3	559.4	647.6	714.2	694.3	593.9	495.1	423.8	387.0	364.8	353.3
67.5°	398.8	453.1	514.2	572.6	556.5	485.4	406.0	350.5	323.1	303.9	297.0
70°	344.9	386.2	440.7	487.4	474.4	416.1	353.3	305.8	282.0	265.9	259.0
72.5°	293.4	327.4	368.9	407.1	398.3	349.9	297.5	261.6	243.4	228.5	222.9
75°	221.5	247.5	272.8	298.1	295.8	258.3	227.6	200.0	185.5	174.0	171.7
77.5°	163.5	178.1	195.3	210.3	206.1	184.7	160.6	144.8	134.1	126.4	125.2
80°	124.9	133.3	145.6	156.3	151.0	141.8	122.6	111.1	103.5	95.8	92.7
82.5°	90.6	99.0	106.4	112.2	108.1	99.5	87.7	79.9	75.3	70.0	68.8
85°	47.5	52.1	55.2	56.7	55.2	49.8	44.4	41.4	37.6	35.3	34.5
87.5°	23.8	22.4	21.4	22.0	19.8	19.4	16.1	13.7	13.7	13.9	13.0
90°	26.9	20.0	15.0	12.0	10.0	8.0	4.0	1.0	4.0	8.0	10.0
92.5°	99.6	67.9	45.3	35.9	29.1	24.8	17.6	12.2	17.6	24.8	29.1
95°	230.5	143.7	97.8	73.9	57.9	48.9	38.9	34.9	38.9	48.9	57.9
97.5°	310.6	189.6	131.9	104.8	86.4	72.9	62.3	56.9	62.3	72.9	86.4
100°	327.4	205.6	152.7	124.8	104.8	88.8	79.8	76.8	79.8	88.8	104.8
102.5°	328.2	220.0	171.1	143.1	122.4	106.4	97.4	95.2	97.4	106.4	122.4
105°	333.3	244.5	197.6	169.7	147.7	132.7	125.8	121.8	125.8	132.7	147.7
107.5°	347.1	269.7	224.2	196.0	174.3	160.5	153.7	150.5	153.7	160.5	174.3
110°	358.3	286.4	242.5	213.6	192.6	179.6	173.7	169.7	173.7	179.6	192.6





TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	370.3	302.4	260.1	230.3	210.2	198.0	191.2	187.2	191.2	198.0	210.2
115°	388.2	327.4	284.4	257.5	237.5	225.6	219.6	214.6	219.6	225.6	237.5
117.5°	407.4	350.3	310.6	282.6	263.5	252.9	246.9	242.9	246.9	252.9	263.5
120°	420.2	366.3	327.4	299.4	279.4	270.5	264.5	260.5	264.5	270.5	279.4
122.5°	431.3	381.4	344.9	316.2	296.2	286.4	280.4	277.3	280.4	286.4	296.2
125°	449.1	404.2	368.3	340.3	320.4	308.4	302.4	299.4	302.4	308.4	320.4
127.5°	465.7	425.4	390.4	361.7	342.5	329.3	321.0	317.0	321.0	329.3	342.5
130°	476.1	438.1	403.2	375.3	355.3	341.3	331.3	327.4	331.3	341.3	355.3
132.5°	486.4	449.3	416.0	388.0	367.3	352.5	341.7	336.9	341.7	352.5	367.3
135°	500.0	465.1	433.1	405.2	382.2	367.3	355.3	351.3	355.3	367.3	382.2
137.5°	510.4	477.9	446.3	420.4	397.6	381.6	369.7	364.9	369.7	381.6	397.6
140°	516.0	485.0	455.1	429.2	407.2	391.2	379.3	375.3	379.3	391.2	407.2
142.5°	520.8	490.6	461.5	437.1	416.0	400.0	388.8	385.6	388.8	400.0	416.0
145°	527.0	499.0	472.1	450.1	430.2	415.2	405.2	401.2	405.2	415.2	430.2
147.5°	530.4	505.8	480.5	460.9	444.3	430.5	421.0	418.0	421.0	430.5	444.3
150°	531.9	509.0	486.0	468.1	453.1	440.1	432.1	429.2	432.1	440.1	453.1
152.5°	532.7	512.2	491.6	475.3	461.1	449.7	441.7	440.3	441.7	449.7	461.1
155°	533.9	517.0	500.0	485.0	474.1	463.1	457.1	456.1	457.1	463.1	474.1
157.5°	533.9	520.4	506.0	493.4	484.6	475.1	470.3	469.3	470.3	475.1	484.6
160°	533.9	522.0	510.0	499.0	491.0	483.0	479.1	478.1	479.1	483.0	491.0
162.5°	533.1	522.8	512.4	503.8	496.6	490.2	486.2	486.8	486.2	490.2	496.6
165°	531.0	524.0	515.0	509.0	504.0	498.0	496.0	497.0	496.0	498.0	504.0
167.5°	529.6	523.8	517.2	513.4	509.8	506.0	504.2	505.4	504.2	506.0	509.8
170°	528.0	523.0	518.0	515.0	513.0	510.0	509.0	511.0	509.0	510.0	513.0
172.5°	525.6	522.2	518.8	516.6	515.4	512.4	513.0	514.2	513.0	512.4	515.4
175°	523.0	521.0	519.0	518.0	518.0	516.0	517.0	518.0	517.0	516.0	518.0
177.5°	521.4	519.8	519.0	519.0	519.0	517.4	518.2	519.8	518.2	517.4	519.0
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1967.7	1964.0	1951.1	1944.4	1933.4	1922.9	1916.2	1919.3	1921.7	1920.5	1918.6
5°	1911.3	1896.7	1874.5	1855.3	1841.5	1816.3	1805.5	1800.2	1795.6	1790.2	1784.8
7.5°	1844.1	1821.2	1789.3	1762.0	1736.2	1704.8	1686.9	1676.2	1665.1	1653.0	1642.3
10°	1796.3	1764.1	1730.4	1692.1	1661.5	1633.1	1607.8	1590.9	1575.6	1561.1	1550.3
12.5°	1746.1	1709.0	1667.3	1614.9	1581.1	1540.5	1536.7	1507.0	1483.0	1474.0	1461.4
15°	1666.0	1613.9	1561.1	1499.0	1472.2	1435.4	1412.4	1389.4	1368.7	1354.1	1350.3
17.5°	1575.2	1507.7	1455.1	1410.5	1366.6	1328.9	1307.7	1289.3	1272.3	1252.8	1250.2
20°	1505.9	1447.6	1390.2	1351.1	1305.9	1267.5	1241.5	1223.1	1208.5	1197.0	1187.1
22.5°	1440.3	1376.5	1323.9	1281.2	1236.6	1205.6	1185.1	1167.3	1155.2	1142.5	1133.1
25°	1335.0	1285.2	1227.7	1179.4	1142.6	1122.7	1105.8	1090.5	1082.9	1074.4	1063.7
27.5°	1242.9	1187.5	1133.7	1096.3	1064.0	1046.4	1034.4	1024.0	1016.8	1011.9	1005.8
30°	1177.9	1121.9	1079.8	1043.0	1016.2	998.6	990.9	984.8	976.3	973.3	970.2
32.5°	1115.3	1064.9	1028.9	997.0	971.4	959.9	952.9	947.4	940.8	937.7	931.6
35°	1026.9	984.8	949.5	931.9	911.2	901.2	895.9	888.2	882.1	879.0	878.2
37.5°	943.7	907.1	883.9	861.2	852.5	846.4	839.0	833.8	832.0	831.5	830.7
40°	889.7	859.8	839.2	820.8	816.9	807.7	801.6	797.0	797.0	797.8	797.0
42.5°	840.7	813.9	795.6	779.7	775.2	769.7	763.6	763.3	764.5	767.1	764.5
45°	766.4	747.2	734.2	726.5	718.1	712.7	711.9	714.2	715.0	715.8	718.1
47.5°	698.0	685.3	673.5	665.0	661.4	660.4	659.5	663.5	667.2	668.6	672.1
50°	657.5	643.0	633.0	627.6	624.6	623.0	624.6	629.2	632.2	636.1	638.4
52.5°	612.2	601.9	595.0	590.9	589.6	590.6	590.9	596.1	601.0	602.4	603.4
55°	549.5	541.8	540.3	533.4	536.4	535.7	539.5	542.6	547.2	551.8	552.5
57.5°	486.9	480.8	476.7	477.3	478.2	481.6	484.8	490.2	495.1	500.0	500.4
60°	445.3	442.2	439.9	439.9	441.4	446.0	449.8	455.2	458.3	461.3	463.6
62.5°	407.2	404.2	401.9	403.1	407.1	409.8	414.3	417.2	420.3	423.3	424.4
65°	347.2	345.6	347.9	349.5	350.2	354.1	359.4	361.7	364.8	366.3	371.7
67.5°	291.8	292.1	291.8	294.0	298.4	299.3	304.4	309.8	310.4	313.3	316.8
70°	254.4	256.0	257.5	259.0	262.9	264.4	268.2	270.5	273.6	275.9	278.2
72.5°	220.1	220.4	221.9	221.6	224.8	228.2	231.4	233.7	236.8	239.7	242.0
75°	169.4	169.4	170.9	171.7	175.5	179.3	178.6	180.1	183.2	186.2	187.8
77.5°	123.7	122.0	123.7	124.5	125.7	128.9	129.5	131.7	135.2	134.1	135.8
80°	94.3	92.0	94.3	95.0	95.0	98.9	98.9	100.4	102.7	100.4	102.7
82.5°	67.3	66.2	67.9	68.1	69.3	69.4	70.7	71.0	73.3	72.2	73.3
85°	33.7	33.0	33.7	33.0	33.7	34.5	34.5	33.7	33.7	35.3	33.0
87.5°	12.8	12.8	13.2	14.6	15.2	14.8	13.9	13.7	13.3	12.5	12.7
90°	12.0	15.0	20.0	26.9	32.9	33.9	32.9	31.9	29.9	31.9	32.9
92.5°	35.9	45.3	67.9	99.6	127.9	129.7	109.6	87.0	74.7	66.3	60.1
95°	73.9	97.8	143.7	230.5	346.3	391.2	342.3	261.5	200.6	158.7	136.7
97.5°	104.8	131.9	189.6	310.6	503.0	667.9	700.6	610.2	499.2	391.2	319.2
100°	124.8	152.7	205.6	327.4	542.9	788.4	932.2	911.2	787.4	650.7	530.0
102.5°	143.1	171.1	220.0	328.2	527.8	792.4	1018.4	1108.4	1080.5	980.5	852.5
105°	169.7	197.6	244.5	333.3	498.0	739.5	1005.0	1212.6	1325.4	1338.4	1305.4
107.5°	196.0	224.2	269.7	347.1	483.2	682.9	917.4	1137.6	1307.4	1411.2	1459.5
110°	213.6	242.5	286.4	358.3	480.1	655.7	862.3	1072.9	1251.5	1379.3	1461.1



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	230.3	260.1	302.4	370.3	480.8	638.1	824.0	1013.8	1185.3	1321.8	1415.6
115°	257.5	284.4	327.4	388.2	485.0	618.8	776.5	941.1	1094.8	1225.6	1328.4
117.5°	282.6	310.6	350.3	407.4	492.2	609.4	746.5	886.4	1021.4	1139.9	1236.4
120°	299.4	327.4	366.3	420.2	497.0	603.8	730.6	859.3	983.1	1088.8	1179.7
122.5°	316.2	344.9	381.4	431.3	502.6	600.6	717.0	837.7	951.1	1051.3	1133.4
125°	340.3	368.3	404.2	449.1	511.0	594.8	697.6	806.4	909.2	997.0	1071.9
127.5°	361.7	390.4	425.4	465.7	519.6	591.4	679.7	775.5	868.5	951.3	1020.4
130°	375.3	403.2	438.1	476.1	526.0	589.8	667.7	755.5	841.3	920.2	986.1
132.5°	388.0	416.0	449.3	486.4	532.3	589.0	658.1	736.3	815.8	888.2	950.1
135°	405.2	433.1	465.1	500.0	539.9	587.8	644.7	709.6	775.5	841.3	897.2
137.5°	420.4	446.3	477.9	510.4	546.7	587.6	635.3	688.2	743.3	795.6	844.3
140°	429.2	455.1	485.0	516.0	549.9	586.8	629.8	674.7	722.6	768.5	812.4
142.5°	437.1	461.5	490.6	520.8	552.3	586.8	624.2	663.5	704.2	743.7	780.5
145°	450.1	472.1	499.0	527.0	554.9	584.8	616.8	647.7	680.7	711.6	740.5
147.5°	460.9	480.5	505.8	530.4	555.7	581.3	609.2	635.5	661.5	685.6	706.8
150°	468.1	486.0	509.0	531.9	554.9	578.9	602.8	626.8	648.7	669.7	687.6
152.5°	475.3	491.6	512.2	532.7	553.3	574.9	597.2	618.0	638.3	656.1	671.7
155°	485.0	500.0	517.0	533.9	550.9	567.9	586.8	605.8	621.8	636.7	647.7
157.5°	493.4	506.0	520.4	533.9	546.3	560.7	577.1	591.6	605.0	617.6	626.2
160°	499.0	510.0	522.0	533.9	543.9	555.9	569.9	582.8	593.8	604.8	611.8
162.5°	503.8	512.4	522.8	533.1	541.5	551.9	563.5	574.1	583.4	592.8	598.2
165°	509.0	515.0	524.0	531.0	536.9	543.9	552.9	560.9	567.9	574.9	578.9
167.5°	513.4	517.2	523.8	529.6	532.3	536.9	542.5	548.3	553.7	558.5	562.1
170°	515.0	518.0	523.0	528.0	530.0	532.9	536.9	541.9	544.9	548.9	550.9
172.5°	516.6	518.8	522.2	525.6	526.8	528.2	531.4	534.7	536.9	540.1	541.3
175°	518.0	519.0	521.0	523.0	522.0	523.0	524.0	527.0	528.0	529.0	530.0
177.5°	519.0	519.0	519.8	521.4	519.8	519.0	519.8	521.4	521.4	522.2	522.2
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1912.5	1911.3	1911.3	1905.8	1911.3	1911.3	1912.5	1918.6	1920.5	1921.7	1919.3
5°	1774.1	1771.8	1768.0	1771.8	1768.0	1771.8	1774.1	1784.8	1790.2	1795.6	1800.2
7.5°	1637.2	1628.0	1626.7	1617.6	1626.7	1628.0	1637.2	1642.3	1653.0	1665.1	1676.2
10°	1537.3	1531.2	1530.4	1515.8	1530.4	1531.2	1537.3	1550.3	1561.1	1575.6	1590.9
12.5°	1461.3	1446.6	1449.5	1441.0	1449.5	1446.6	1461.3	1461.4	1474.0	1483.0	1507.0
15°	1329.6	1329.6	1326.6	1313.5	1326.6	1329.6	1329.6	1350.3	1354.1	1368.7	1389.4
17.5°	1235.1	1233.5	1226.2	1229.8	1226.2	1233.5	1235.1	1250.2	1252.8	1272.3	1289.3
20°	1178.6	1174.1	1164.9	1164.9	1164.9	1174.1	1178.6	1187.1	1197.0	1208.5	1223.1
22.5°	1125.3	1125.0	1115.2	1118.3	1115.2	1125.0	1125.3	1133.1	1142.5	1155.2	1167.3
25°	1062.9	1056.8	1052.2	1054.5	1052.2	1056.8	1062.9	1063.7	1074.4	1082.9	1090.5
27.5°	1003.8	1000.4	1000.1	993.8	1000.1	1000.4	1003.8	1005.8	1011.9	1016.8	1024.0
30°	969.4	961.8	963.3	959.5	963.3	961.8	969.4	970.2	973.3	976.3	984.8
32.5°	930.2	927.4	925.9	922.7	925.9	927.4	930.2	931.6	937.7	940.8	947.4
35°	876.7	877.5	873.6	875.2	873.6	877.5	876.7	878.2	879.0	882.1	888.2
37.5°	830.0	832.4	830.6	831.0	830.6	832.4	830.0	830.7	831.5	832.0	833.8
40°	799.3	799.3	799.3	801.6	799.3	799.3	799.3	797.0	797.8	797.0	797.0
42.5°	769.9	768.7	767.4	767.3	767.4	768.7	769.9	764.5	767.1	764.5	763.3
45°	719.6	721.9	722.7	718.8	722.7	721.9	719.6	718.1	715.8	715.0	714.2
47.5°	674.1	674.4	674.1	677.5	674.1	674.4	674.1	672.1	668.6	667.2	663.5
50°	642.2	640.7	642.2	640.7	642.2	640.7	642.2	638.4	636.1	632.2	629.2
52.5°	608.5	608.8	607.9	607.6	607.9	608.8	608.5	603.4	602.4	601.0	596.1
55°	555.6	557.1	556.4	556.4	556.4	557.1	555.6	552.5	551.8	547.2	542.6
57.5°	500.9	502.3	503.3	500.0	503.3	502.3	500.9	500.4	500.0	495.1	490.2
60°	462.9	466.7	465.9	464.4	465.9	466.7	462.9	463.6	461.3	458.3	455.2
62.5°	427.9	429.3	429.2	428.9	429.2	429.3	427.9	424.4	423.3	420.3	417.2
65°	374.0	375.5	373.2	375.5	373.2	375.5	374.0	371.7	366.3	364.8	361.7
67.5°	315.9	316.4	318.0	319.1	318.0	316.4	315.9	316.8	313.3	310.4	309.8
70°	279.7	279.0	281.3	283.6	281.3	279.0	279.7	278.2	275.9	273.6	270.5
72.5°	241.7	243.4	242.6	244.3	242.6	243.4	241.7	242.0	239.7	236.8	233.7
75°	186.2	188.5	187.8	190.1	187.8	188.5	186.2	187.8	186.2	183.2	180.1
77.5°	134.6	134.9	134.6	135.8	134.6	134.9	134.6	135.8	134.1	135.2	131.7
80°	102.7	101.2	99.6	102.7	99.6	101.2	102.7	102.7	100.4	102.7	100.4
82.5°	71.4	72.3	70.8	70.8	70.8	72.3	71.4	73.3	72.2	73.3	71.0
85°	33.0	32.2	30.7	30.7	30.7	32.2	33.0	33.0	35.3	33.7	33.7
87.5°	12.7	12.1	12.1	11.5	12.1	12.1	12.7	12.7	12.5	13.3	13.7
90°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	31.9	29.9	31.9
92.5°	59.3	56.1	56.9	55.3	56.9	56.1	59.3	60.1	66.3	74.7	87.0
95°	123.8	115.8	112.8	113.8	112.8	115.8	123.8	136.7	158.7	200.6	261.5
97.5°	271.5	246.9	232.3	224.0	232.3	246.9	271.5	319.2	391.2	499.2	610.2
100°	447.1	404.2	375.3	357.3	375.3	404.2	447.1	530.0	650.7	787.4	911.2
102.5°	762.5	689.2	653.1	628.8	653.1	689.2	762.5	852.5	980.5	1080.5	1108.4
105°	1243.5	1181.7	1138.7	1124.8	1138.7	1181.7	1243.5	1305.4	1338.4	1325.4	1212.6
107.5°	1467.3	1463.9	1455.3	1436.8	1455.3	1463.9	1467.3	1459.5	1411.2	1307.4	1137.6
110°	1504.0	1523.0	1532.0	1531.0	1532.0	1523.0	1504.0	1461.1	1379.3	1251.5	1072.9



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1475.3	1507.0	1524.0	1529.4	1524.0	1507.0	1475.3	1415.6	1321.8	1185.3	1013.8
115°	1399.2	1445.1	1471.1	1480.1	1471.1	1445.1	1399.2	1328.4	1225.6	1094.8	941.1
117.5°	1308.6	1357.1	1384.5	1392.0	1384.5	1357.1	1308.6	1236.4	1139.9	1021.4	886.4
120°	1249.5	1296.4	1325.4	1335.4	1325.4	1296.4	1249.5	1179.7	1088.8	983.1	859.3
122.5°	1196.0	1242.1	1267.9	1276.3	1267.9	1242.1	1196.0	1133.4	1051.3	951.1	837.7
125°	1129.8	1167.7	1192.6	1200.6	1192.6	1167.7	1129.8	1071.9	997.0	909.2	806.4
127.5°	1070.9	1106.4	1128.0	1134.4	1128.0	1106.4	1070.9	1020.4	951.3	868.5	775.5
130°	1035.0	1068.9	1088.8	1096.8	1088.8	1068.9	1035.0	986.1	920.2	841.3	755.5
132.5°	998.2	1032.2	1050.5	1057.7	1050.5	1032.2	998.2	950.1	888.2	815.8	736.3
135°	940.1	973.1	991.0	995.0	991.0	973.1	940.1	897.2	841.3	775.5	709.6
137.5°	883.5	911.8	927.6	933.6	927.6	911.8	883.5	844.3	795.6	743.3	688.2
140°	844.3	870.3	885.3	891.2	885.3	870.3	844.3	812.4	768.5	722.6	674.7
142.5°	810.8	834.4	847.7	848.9	847.7	834.4	810.8	780.5	743.7	704.2	663.5
145°	764.5	781.5	791.4	794.4	791.4	781.5	764.5	740.5	711.6	680.7	647.7
147.5°	726.6	740.1	746.9	748.7	746.9	740.1	726.6	706.8	685.6	661.5	635.5
150°	702.6	714.6	720.6	721.6	720.6	714.6	702.6	687.6	669.7	648.7	626.8
152.5°	683.4	693.8	698.2	698.4	698.2	693.8	683.4	671.7	656.1	638.3	618.0
155°	658.7	665.7	669.7	667.7	669.7	665.7	658.7	647.7	636.7	621.8	605.8
157.5°	633.9	639.7	641.5	641.5	641.5	639.7	633.9	626.2	617.6	605.0	591.6
160°	618.8	623.8	624.8	624.8	624.8	623.8	618.8	611.8	604.8	593.8	582.8
162.5°	605.2	608.6	609.6	608.8	609.6	608.6	605.2	598.2	592.8	583.4	574.1
165°	582.8	586.8	586.8	585.8	586.8	586.8	582.8	578.9	574.9	567.9	560.9
167.5°	563.9	566.1	565.9	564.7	565.9	566.1	563.9	562.1	558.5	553.7	548.3
170°	551.9	554.9	553.9	551.9	553.9	554.9	551.9	550.9	548.9	544.9	541.9
172.5°	542.3	543.7	542.7	541.5	542.7	543.7	542.3	541.3	540.1	536.9	534.7
175°	530.0	531.0	530.0	528.0	530.0	531.0	530.0	530.0	529.0	528.0	527.0
177.5°	522.2	522.2	521.4	519.8	521.4	522.2	522.2	522.2	522.2	521.4	521.4
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1916.2	1922.9	1933.4	1944.4	1951.1	1964.0	1967.7	1973.8	1979.3	1992.2	2005.7
5°	1805.5	1816.3	1841.5	1855.3	1874.5	1896.7	1911.3	1926.6	1943.5	1972.6	1999.4
7.5°	1686.9	1704.8	1736.2	1762.0	1789.3	1821.2	1844.1	1874.5	1899.6	1940.7	1979.9
10°	1607.8	1633.1	1661.5	1692.1	1730.4	1764.1	1796.3	1834.6	1865.3	1914.3	1960.3
12.5°	1536.7	1540.5	1581.1	1614.9	1667.3	1709.0	1746.1	1795.4	1825.4	1883.7	1932.1
15°	1412.4	1435.4	1472.2	1499.0	1561.1	1613.9	1666.0	1717.4	1751.9	1823.9	1887.5
17.5°	1307.7	1328.9	1366.6	1410.5	1455.1	1507.7	1575.2	1629.3	1676.2	1758.5	1833.7
20°	1241.5	1267.5	1305.9	1351.1	1390.2	1447.6	1505.9	1568.0	1618.5	1711.3	1799.4
22.5°	1185.1	1205.6	1236.6	1281.2	1323.9	1376.5	1440.3	1507.9	1560.9	1661.0	1750.3
25°	1105.8	1122.7	1142.6	1179.4	1227.7	1285.2	1335.0	1409.3	1486.7	1580.2	1688.3
27.5°	1034.4	1046.4	1064.0	1096.3	1133.7	1187.5	1242.9	1313.4	1391.2	1492.7	1606.7
30°	990.9	998.6	1016.2	1043.0	1079.8	1121.9	1177.9	1245.3	1325.0	1427.7	1541.1
32.5°	952.9	959.9	971.4	997.0	1028.9	1064.9	1115.3	1182.8	1258.8	1359.7	1485.3
35°	895.9	901.2	911.2	931.9	949.5	984.8	1026.9	1088.2	1159.5	1256.1	1386.3
37.5°	839.0	846.4	852.5	861.2	883.9	907.1	943.7	995.5	1065.4	1162.9	1287.0
40°	801.6	807.7	816.9	820.8	839.2	859.8	889.7	937.2	1007.8	1096.6	1217.7
42.5°	763.6	769.7	775.2	779.7	795.6	813.9	840.7	881.5	944.0	1030.4	1150.3
45°	711.9	712.7	718.1	726.5	734.2	747.2	766.4	801.6	849.9	931.1	1039.9
47.5°	659.5	660.4	661.4	665.0	673.5	685.3	698.0	726.7	769.9	834.7	940.6
50°	624.6	623.0	624.6	627.6	633.0	643.0	657.5	678.2	713.5	774.0	871.3
52.5°	590.9	590.6	589.6	590.9	595.0	601.9	612.2	629.8	661.4	717.0	802.7
55°	539.5	535.7	536.4	533.4	540.3	541.8	549.5	564.0	591.6	629.9	710.4
57.5°	484.8	481.6	478.2	477.3	476.7	480.8	486.9	498.4	519.6	553.2	618.4
60°	449.8	446.0	441.4	439.9	439.9	442.2	445.3	453.7	473.6	503.5	557.1
62.5°	414.3	409.8	407.1	403.1	401.9	404.2	407.2	413.2	427.6	455.7	502.0
65°	359.4	354.1	350.2	349.5	347.9	345.6	347.2	353.3	364.8	387.0	423.8
67.5°	304.4	299.3	298.4	294.0	291.8	292.1	291.8	297.0	303.9	323.1	350.5
70°	268.2	264.4	262.9	259.0	257.5	256.0	254.4	259.0	265.9	282.0	305.8
72.5°	231.4	228.2	224.8	221.6	221.9	220.4	220.1	222.9	228.5	243.4	261.6
75°	178.6	179.3	175.5	171.7	170.9	169.4	169.4	171.7	174.0	185.5	200.0
77.5°	129.5	128.9	125.7	124.5	123.7	122.0	123.7	125.2	126.4	134.1	144.8
80°	98.9	98.9	95.0	95.0	94.3	92.0	94.3	92.7	95.8	103.5	111.1
82.5°	70.7	69.4	69.3	68.1	67.9	66.2	67.3	68.8	70.0	75.3	79.9
85°	34.5	34.5	33.7	33.0	33.7	33.0	33.7	34.5	35.3	37.6	41.4
87.5°	13.9	14.8	15.2	14.6	13.2	12.8	12.8	13.0	13.9	13.7	13.7
90°	32.9	33.9	32.9	26.9	20.0	15.0	12.0	10.0	8.0	4.0	1.0
92.5°	109.6	129.7	127.9	99.6	67.9	45.3	35.9	29.1	24.8	17.6	12.2
95°	342.3	391.2	346.3	230.5	143.7	97.8	73.9	57.9	48.9	38.9	34.9
97.5°	700.6	667.9	503.0	310.6	189.6	131.9	104.8	86.4	72.9	62.3	56.9
100°	932.2	788.4	542.9	327.4	205.6	152.7	124.8	104.8	88.8	79.8	76.8
102.5°	1018.4	792.4	527.8	328.2	220.0	171.1	143.1	122.4	106.4	97.4	95.2
105°	1005.0	739.5	498.0	333.3	244.5	197.6	169.7	147.7	132.7	125.8	121.8
107.5°	917.4	682.9	483.2	347.1	269.7	224.2	196.0	174.3	160.5	153.7	150.5
110°	862.3	655.7	480.1	358.3	286.4	242.5	213.6	192.6	179.6	173.7	169.7



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	824.0	638.1	480.8	370.3	302.4	260.1	230.3	210.2	198.0	191.2	187.2
115°	776.5	618.8	485.0	388.2	327.4	284.4	257.5	237.5	225.6	219.6	214.6
117.5°	746.5	609.4	492.2	407.4	350.3	310.6	282.6	263.5	252.9	246.9	242.9
120°	730.6	603.8	497.0	420.2	366.3	327.4	299.4	279.4	270.5	264.5	260.5
122.5°	717.0	600.6	502.6	431.3	381.4	344.9	316.2	296.2	286.4	280.4	277.3
125°	697.6	594.8	511.0	449.1	404.2	368.3	340.3	320.4	308.4	302.4	299.4
127.5°	679.7	591.4	519.6	465.7	425.4	390.4	361.7	342.5	329.3	321.0	317.0
130°	667.7	589.8	526.0	476.1	438.1	403.2	375.3	355.3	341.3	331.3	327.4
132.5°	658.1	589.0	532.3	486.4	449.3	416.0	388.0	367.3	352.5	341.7	336.9
135°	644.7	587.8	539.9	500.0	465.1	433.1	405.2	382.2	367.3	355.3	351.3
137.5°	635.3	587.6	546.7	510.4	477.9	446.3	420.4	397.6	381.6	369.7	364.9
140°	629.8	586.8	549.9	516.0	485.0	455.1	429.2	407.2	391.2	379.3	375.3
142.5°	624.2	586.8	552.3	520.8	490.6	461.5	437.1	416.0	400.0	388.8	385.6
145°	616.8	584.8	554.9	527.0	499.0	472.1	450.1	430.2	415.2	405.2	401.2
147.5°	609.2	581.3	555.7	530.4	505.8	480.5	460.9	444.3	430.5	421.0	418.0
150°	602.8	578.9	554.9	531.9	509.0	486.0	468.1	453.1	440.1	432.1	429.2
152.5°	597.2	574.9	553.3	532.7	512.2	491.6	475.3	461.1	449.7	441.7	440.3
155°	586.8	567.9	550.9	533.9	517.0	500.0	485.0	474.1	463.1	457.1	456.1
157.5°	577.1	560.7	546.3	533.9	520.4	506.0	493.4	484.6	475.1	470.3	469.3
160°	569.9	555.9	543.9	533.9	522.0	510.0	499.0	491.0	483.0	479.1	478.1
162.5°	563.5	551.9	541.5	533.1	522.8	512.4	503.8	496.6	490.2	486.2	486.8
165°	552.9	543.9	536.9	531.0	524.0	515.0	509.0	504.0	498.0	496.0	497.0
167.5°	542.5	536.9	532.3	529.6	523.8	517.2	513.4	509.8	506.0	504.2	505.4
170°	536.9	532.9	530.0	528.0	523.0	518.0	515.0	513.0	510.0	509.0	511.0
172.5°	531.4	528.2	526.8	525.6	522.2	518.8	516.6	515.4	512.4	513.0	514.2
175°	524.0	523.0	522.0	523.0	521.0	519.0	518.0	518.0	516.0	517.0	518.0
177.5°	519.8	519.0	519.8	521.4	519.8	519.0	519.0	519.0	517.4	518.2	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0





TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2004.5	2007.5	2017.3	2027.2	2038.2	2041.3	2046.2	2041.9	2040.6	2052.3	2060.9
5°	2010.1	2023.9	2050.8	2075.3	2096.0	2110.5	2125.9	2132.0	2143.5	2159.6	2179.5
7.5°	2003.7	2030.5	2072.7	2108.4	2147.3	2175.4	2197.3	2216.0	2238.7	2269.2	2302.4
10°	1996.3	2032.4	2083.7	2127.4	2174.9	2210.9	2240.8	2269.9	2303.7	2345.8	2389.5
12.5°	1982.9	2025.6	2089.8	2141.5	2202.5	2237.9	2278.2	2341.1	2377.2	2435.9	2497.4
15°	1955.7	2003.2	2092.9	2156.5	2225.5	2292.9	2367.3	2427.0	2486.8	2521.3	2607.9
17.5°	1915.4	1985.2	2084.5	2158.7	2246.3	2352.5	2436.1	2503.8	2572.8	2628.7	2672.1
20°	1882.9	1958.8	2072.2	2161.1	2265.3	2379.5	2475.3	2544.3	2604.1	2650.8	2677.6
22.5°	1841.8	1937.3	2047.7	2151.9	2285.0	2397.9	2498.6	2552.9	2602.8	2625.7	2635.9
25°	1777.2	1892.1	2017.0	2144.3	2294.5	2414.0	2506.0	2538.9	2553.5	2531.3	2494.5
27.5°	1707.4	1835.6	1981.6	2129.8	2288.6	2403.6	2469.5	2464.3	2439.6	2367.7	2310.2
30°	1655.3	1796.3	1953.4	2115.1	2274.5	2386.4	2424.7	2386.4	2330.5	2250.0	2168.0
32.5°	1600.8	1746.7	1923.4	2094.3	2248.8	2347.2	2355.5	2289.6	2203.0	2111.5	2009.2
35°	1518.1	1676.0	1866.8	2047.7	2194.1	2256.1	2219.4	2102.9	2000.2	1875.3	1735.8
37.5°	1424.8	1599.1	1790.5	1979.5	2112.1	2128.3	2037.0	1914.3	1769.5	1622.7	1458.5
40°	1354.9	1539.6	1736.6	1927.4	2044.6	2027.8	1911.3	1776.4	1604.0	1424.6	1272.1
42.5°	1292.4	1477.1	1677.7	1864.8	1958.8	1912.5	1776.4	1610.9	1425.6	1256.7	1117.0
45°	1184.0	1374.1	1579.5	1760.3	1814.0	1730.4	1550.3	1366.4	1184.0	1043.0	932.7
47.5°	1078.9	1266.8	1470.2	1629.1	1648.1	1535.8	1339.0	1149.7	992.9	878.1	800.2
50°	1001.6	1190.1	1391.7	1533.5	1527.3	1391.7	1189.4	1009.3	878.2	785.5	733.4
52.5°	932.3	1110.4	1304.0	1432.9	1400.4	1252.5	1059.4	899.5	791.8	719.3	672.1
55°	824.6	989.4	1173.3	1276.7	1217.0	1053.0	889.7	761.0	681.3	626.9	590.1
57.5°	717.6	872.1	1029.5	1093.3	1027.2	875.8	739.7	646.3	586.4	546.1	522.2
60°	651.4	786.3	926.5	981.7	902.8	767.9	660.6	577.1	528.8	495.8	474.4
62.5°	585.2	706.0	838.2	868.3	796.1	682.1	587.0	517.6	477.9	448.6	428.4
65°	495.1	593.9	694.3	714.2	647.6	559.4	484.3	439.1	403.9	382.4	366.3
67.5°	406.0	485.4	556.5	572.6	514.2	453.1	398.8	359.4	335.5	317.7	304.1
70°	353.3	416.1	474.4	487.4	440.7	386.2	344.9	313.4	292.0	276.7	263.6
72.5°	297.5	349.9	398.3	407.1	368.9	327.4	293.4	268.7	249.7	239.9	227.5
75°	227.6	258.3	295.8	298.1	272.8	247.5	221.5	205.4	195.4	183.2	177.0
77.5°	160.6	184.7	206.1	210.3	195.3	178.1	163.5	150.8	142.4	136.7	131.0
80°	122.6	141.8	151.0	156.3	145.6	133.3	124.9	116.5	111.1	107.3	103.5
82.5°	87.7	99.5	108.1	112.2	106.4	99.0	90.6	85.8	81.7	78.5	77.1
85°	44.4	49.8	55.2	56.7	55.2	52.1	47.5	47.5	45.2	44.4	44.4
87.5°	16.1	19.4	19.8	22.0	21.4	22.4	23.8	24.4	24.0	23.1	22.3
90°	4.0	8.0	10.0	12.0	15.0	20.0	26.9	32.9	33.9	32.9	31.9
92.5°	17.6	24.8	29.1	35.9	45.3	67.9	99.6	127.9	129.7	109.6	87.0
95°	38.9	48.9	57.9	73.9	97.8	143.7	230.5	346.3	391.2	342.3	261.5
97.5°	62.3	72.9	86.4	104.8	131.9	189.6	310.6	503.0	667.9	700.6	610.2
100°	79.8	88.8	104.8	124.8	152.7	205.6	327.4	542.9	788.4	932.2	911.2
102.5°	97.4	106.4	122.4	143.1	171.1	220.0	328.2	527.8	792.4	1018.4	1108.4
105°	125.8	132.7	147.7	169.7	197.6	244.5	333.3	498.0	739.5	1005.0	1212.6
107.5°	153.7	160.5	174.3	196.0	224.2	269.7	347.1	483.2	682.9	917.4	1137.6
110°	173.7	179.6	192.6	213.6	242.5	286.4	358.3	480.1	655.7	862.3	1072.9





TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	191.2	198.0	210.2	230.3	260.1	302.4	370.3	480.8	638.1	824.0	1013.8
115°	219.6	225.6	237.5	257.5	284.4	327.4	388.2	485.0	618.8	776.5	941.1
117.5°	246.9	252.9	263.5	282.6	310.6	350.3	407.4	492.2	609.4	746.5	886.4
120°	264.5	270.5	279.4	299.4	327.4	366.3	420.2	497.0	603.8	730.6	859.3
122.5°	280.4	286.4	296.2	316.2	344.9	381.4	431.3	502.6	600.6	717.0	837.7
125°	302.4	308.4	320.4	340.3	368.3	404.2	449.1	511.0	594.8	697.6	806.4
127.5°	321.0	329.3	342.5	361.7	390.4	425.4	465.7	519.6	591.4	679.7	775.5
130°	331.3	341.3	355.3	375.3	403.2	438.1	476.1	526.0	589.8	667.7	755.5
132.5°	341.7	352.5	367.3	388.0	416.0	449.3	486.4	532.3	589.0	658.1	736.3
135°	355.3	367.3	382.2	405.2	433.1	465.1	500.0	539.9	587.8	644.7	709.6
137.5°	369.7	381.6	397.6	420.4	446.3	477.9	510.4	546.7	587.6	635.3	688.2
140°	379.3	391.2	407.2	429.2	455.1	485.0	516.0	549.9	586.8	629.8	674.7
142.5°	388.8	400.0	416.0	437.1	461.5	490.6	520.8	552.3	586.8	624.2	663.5
145°	405.2	415.2	430.2	450.1	472.1	499.0	527.0	554.9	584.8	616.8	647.7
147.5°	421.0	430.5	444.3	460.9	480.5	505.8	530.4	555.7	581.3	609.2	635.5
150°	432.1	440.1	453.1	468.1	486.0	509.0	531.9	554.9	578.9	602.8	626.8
152.5°	441.7	449.7	461.1	475.3	491.6	512.2	532.7	553.3	574.9	597.2	618.0
155°	457.1	463.1	474.1	485.0	500.0	517.0	533.9	550.9	567.9	586.8	605.8
157.5°	470.3	475.1	484.6	493.4	506.0	520.4	533.9	546.3	560.7	577.1	591.6
160°	479.1	483.0	491.0	499.0	510.0	522.0	533.9	543.9	555.9	569.9	582.8
162.5°	486.2	490.2	496.6	503.8	512.4	522.8	533.1	541.5	551.9	563.5	574.1
165°	496.0	498.0	504.0	509.0	515.0	524.0	531.0	536.9	543.9	552.9	560.9
167.5°	504.2	506.0	509.8	513.4	517.2	523.8	529.6	532.3	536.9	542.5	548.3
170°	509.0	510.0	513.0	515.0	518.0	523.0	528.0	530.0	532.9	536.9	541.9
172.5°	513.0	512.4	515.4	516.6	518.8	522.2	525.6	526.8	528.2	531.4	534.7
175°	517.0	516.0	518.0	518.0	519.0	521.0	523.0	522.0	523.0	524.0	527.0
177.5°	518.2	517.4	519.0	519.0	519.0	519.8	521.4	519.8	519.0	519.8	521.4
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2068.2	2076.8	2076.8	2078.0	2087.8	2086.6	2086.0
5°	2201.0	2214.0	2215.5	2229.3	2238.5	2235.4	2227.0
7.5°	2326.2	2350.4	2368.8	2379.1	2391.2	2398.7	2395.3
10°	2425.5	2460.8	2482.2	2496.8	2514.4	2527.4	2522.8
12.5°	2515.6	2557.6	2587.1	2612.0	2614.3	2631.0	2619.7
15°	2656.2	2700.6	2705.2	2723.6	2738.2	2736.6	2737.4
17.5°	2702.6	2716.9	2719.8	2720.2	2720.4	2715.0	2703.4
20°	2686.1	2680.7	2667.7	2657.7	2640.1	2637.8	2622.5
22.5°	2607.6	2590.6	2557.9	2536.3	2508.9	2501.7	2497.4
25°	2453.1	2415.5	2363.4	2313.6	2299.8	2273.0	2280.7
27.5°	2241.1	2182.6	2126.2	2085.7	2049.1	2008.9	2020.4
30°	2092.1	2026.2	1946.5	1885.2	1846.1	1807.8	1800.9
32.5°	1914.3	1817.8	1728.9	1674.9	1615.0	1590.8	1564.3
35°	1607.8	1513.5	1425.4	1349.5	1305.9	1272.1	1241.5
37.5°	1332.1	1223.6	1152.4	1091.0	1059.4	1040.1	1045.0
40°	1161.0	1066.0	1013.9	967.1	938.0	924.2	927.3
42.5°	1022.5	951.3	908.4	876.4	855.9	848.2	846.4
45°	865.2	825.4	790.1	771.7	761.8	753.3	748.0
47.5°	757.9	725.4	705.5	694.6	685.9	677.3	677.1
50°	693.5	672.1	658.3	646.8	639.9	633.8	639.1
52.5°	644.5	624.9	611.1	600.8	598.2	592.7	592.5
55°	571.7	556.4	546.4	537.2	532.6	529.5	525.7
57.5°	505.5	490.9	481.7	475.9	467.2	464.1	462.9
60°	458.3	446.8	437.6	429.9	426.1	420.0	420.0
62.5°	414.7	403.3	394.7	388.8	382.6	380.1	380.7
65°	351.8	342.6	334.1	328.0	326.5	321.9	323.4
67.5°	293.8	287.7	278.8	275.4	272.5	270.1	268.2
70°	255.2	249.1	244.5	239.9	237.6	237.6	237.6
72.5°	222.7	215.3	212.6	206.8	208.1	205.7	203.2
75°	172.4	167.8	165.5	163.2	159.4	159.4	159.4
77.5°	126.9	125.5	122.8	120.3	119.4	118.6	118.9
80°	98.1	97.3	95.8	95.8	94.3	93.5	92.0
82.5°	75.4	73.4	72.5	71.9	71.6	71.4	71.1
85°	42.9	41.4	41.4	42.1	40.6	40.6	41.4
87.5°	22.5	22.9	22.5	22.5	23.1	22.5	22.5
90°	29.9	31.9	32.9	32.9	32.9	32.9	32.9
92.5°	74.7	66.3	60.1	59.3	56.1	56.9	55.3
95°	200.6	158.7	136.7	123.8	115.8	112.8	113.8
97.5°	499.2	391.2	319.2	271.5	246.9	232.3	224.0
100°	787.4	650.7	530.0	447.1	404.2	375.3	357.3
102.5°	1080.5	980.5	852.5	762.5	689.2	653.1	628.8
105°	1325.4	1338.4	1305.4	1243.5	1181.7	1138.7	1124.8
107.5°	1307.4	1411.2	1459.5	1467.3	1463.9	1455.3	1436.8
110°	1251.5	1379.3	1461.1	1504.0	1523.0	1532.0	1531.0



TEST NUMBER: P331449

CATALOG NUMBER: SA2XXDIP-C1005D925U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.3	1321.8	1415.6	1475.3	1507.0	1524.0	1529.4
115°	1094.8	1225.6	1328.4	1399.2	1445.1	1471.1	1480.1
117.5°	1021.4	1139.9	1236.4	1308.6	1357.1	1384.5	1392.0
120°	983.1	1088.8	1179.7	1249.5	1296.4	1325.4	1335.4
122.5°	951.1	1051.3	1133.4	1196.0	1242.1	1267.9	1276.3
125°	909.2	997.0	1071.9	1129.8	1167.7	1192.6	1200.6
127.5°	868.5	951.3	1020.4	1070.9	1106.4	1128.0	1134.4
130°	841.3	920.2	986.1	1035.0	1068.9	1088.8	1096.8
132.5°	815.8	888.2	950.1	998.2	1032.2	1050.5	1057.7
135°	775.5	841.3	897.2	940.1	973.1	991.0	995.0
137.5°	743.3	795.6	844.3	883.5	911.8	927.6	933.6
140°	722.6	768.5	812.4	844.3	870.3	885.3	891.2
142.5°	704.2	743.7	780.5	810.8	834.4	847.7	848.9
145°	680.7	711.6	740.5	764.5	781.5	791.4	794.4
147.5°	661.5	685.6	706.8	726.6	740.1	746.9	748.7
150°	648.7	669.7	687.6	702.6	714.6	720.6	721.6
152.5°	638.3	656.1	671.7	683.4	693.8	698.2	698.4
155°	621.8	636.7	647.7	658.7	665.7	669.7	667.7
157.5°	605.0	617.6	626.2	633.9	639.7	641.5	641.5
160°	593.8	604.8	611.8	618.8	623.8	624.8	624.8
162.5°	583.4	592.8	598.2	605.2	608.6	609.6	608.8
165°	567.9	574.9	578.9	582.8	586.8	586.8	585.8
167.5°	553.7	558.5	562.1	563.9	566.1	565.9	564.7
170°	544.9	548.9	550.9	551.9	554.9	553.9	551.9
172.5°	536.9	540.1	541.3	542.3	543.7	542.7	541.5
175°	528.0	529.0	530.0	530.0	531.0	530.0	528.0
177.5°	521.4	522.2	522.2	522.2	522.2	521.4	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0

(END OF REPORT)