

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: P332654-940

Luminaire Tested: **S124DIP-S1020D1035U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332654-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S1020D1035U940-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

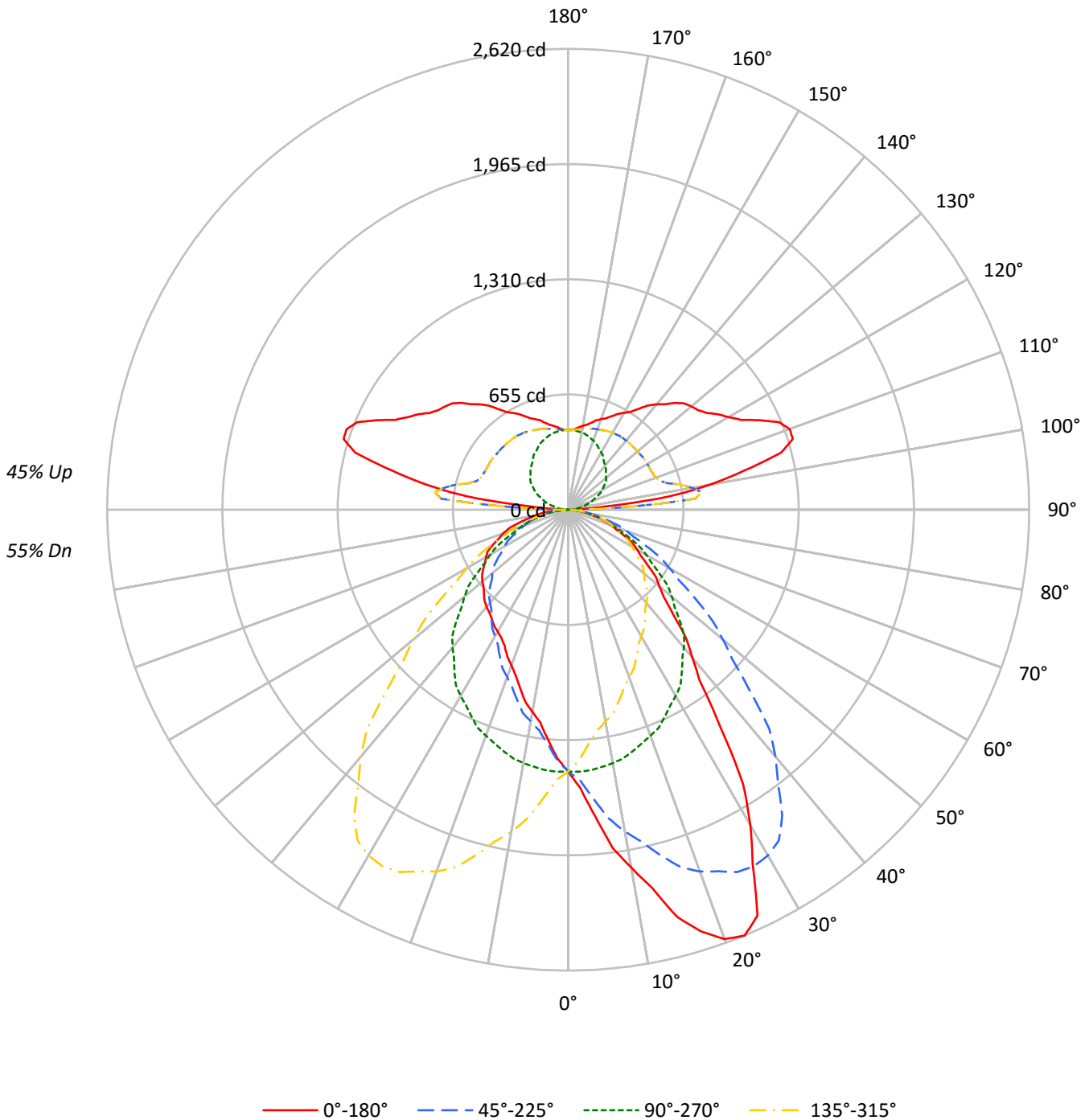
Lumens per Lamp: N/A  
Luminaire Lumens: 7403.6 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 60.5  
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	39	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	36	30	26	31	26	23	27	23	20	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

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

	0°	90°	180°	270°
0°	12013	12013	12013	12013
5°	14148	12044	10631	12044
10°	16939	11992	9571	11992
15°	20042	11870	8790	11870
20°	22317	11747	8092	11747
25°	22678	11564	7611	11564
30°	19296	11389	7458	11389
35°	14836	11106	7460	11106
40°	11564	10771	7600	10771
45°	9642	10268	7728	10268
50°	8485	9654	7989	9654
55°	7773	8919	8313	8919
60°	7285	8262	8699	8262
65°	6783	7524	9020	7524
70°	6198	6793	9224	6793
75°	5536	5979	9114	5979
80°	4644	4900	8824	4900
85°	3427	3548	8448	3548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.0	2.0
10°-20°	446.9	6.0
20°-30°	708.6	9.6
30°-40°	788.6	10.7
40°-50°	717.8	9.7
50°-60°	586.6	7.9
60°-70°	418.8	5.7
70°-80°	230.6	3.1
80°-90°	65.5	0.9
90°-100°	327.3	4.4
100°-110°	681.1	9.2
110°-120°	610.1	8.2
120°-130°	513.2	6.9
130°-140°	427.9	5.8
140°-150°	326.9	4.4
150°-160°	229.8	3.1
160°-170°	135.2	1.8
170°-180°	44.0	0.6
0°-30°	1300.4	17.6
0°-40°	2089.0	28.2
0°-60°	3393.4	45.8
0°-90°	4108.2	55.5
90°-120°	1618.5	21.9
90°-150°	2886.5	39.0
90°-180°	3295.0	44.5
0°-180°	7403.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1488	1488	1488	1488	1488	
5°	1746	1486	1312	1486	1746	178
15°	2398	1420	1052	1420	2398	678
25°	2546	1298	854	1298	2546	1122
35°	1505	1127	757	1127	1505	956
45°	844	899	677	899	844	665
55°	552	634	591	634	552	499
65°	355	394	472	394	355	352
75°	178	192	292	192	178	189
85°	37	38	91	38	37	46
90°	19	1	19	1	19	17
95°	217	29	217	29	217	337
105°	1252	104	1252	104	1252	1238
115°	1203	183	1203	183	1203	1194
125°	960	256	960	256	960	872
135°	858	304	858	304	858	662
145°	701	350	701	350	701	444
155°	587	398	587	398	587	274
165°	512	434	512	434	512	147
175°	461	452	461	452	461	45
180°	453	453	453	453	453	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1583.8	1583.3	1578.3	1577.3	1573.9	1569.5	1568.5	1560.6	1544.8	1537.4	1535.4
5°	1745.8	1758.1	1742.0	1739.0	1737.1	1716.8	1706.3	1694.0	1665.6	1649.0	1636.0
7.5°	1939.1	1940.5	1933.6	1927.9	1912.2	1894.4	1867.9	1839.5	1805.7	1770.6	1744.0
10°	2066.4	2071.3	2063.2	2062.0	2030.6	2010.8	1971.4	1938.1	1899.9	1857.3	1818.6
12.5°	2200.5	2193.5	2189.5	2163.1	2157.3	2121.3	2075.5	2041.2	1982.3	1933.3	1881.6
15°	2398.0	2384.4	2375.8	2339.4	2321.6	2271.6	2222.9	2185.3	2108.3	2034.9	1979.4
17.5°	2513.8	2527.5	2507.5	2492.5	2446.3	2411.3	2361.5	2282.6	2222.3	2131.2	2061.2
20°	2597.7	2598.9	2587.8	2572.4	2536.0	2491.7	2437.4	2351.1	2279.0	2188.3	2092.2
22.5°	2620.4	2620.6	2615.9	2601.5	2574.0	2538.0	2483.3	2411.3	2323.9	2225.4	2129.2
25°	2545.9	2543.4	2549.0	2565.0	2554.6	2543.4	2512.0	2458.4	2377.0	2272.8	2169.3
27.5°	2269.2	2286.3	2317.6	2357.1	2395.0	2424.0	2432.1	2421.2	2370.7	2285.0	2176.6
30°	2070.0	2091.0	2114.4	2153.8	2230.3	2274.0	2322.2	2358.5	2338.2	2269.8	2168.6
32.5°	1851.1	1856.3	1891.1	1935.9	2005.9	2090.1	2166.3	2240.2	2264.7	2228.8	2144.5
35°	1505.4	1513.9	1551.6	1596.0	1681.7	1784.6	1899.3	2001.6	2086.1	2120.0	2076.8
37.5°	1228.4	1253.2	1279.8	1327.5	1402.9	1495.6	1614.7	1747.1	1873.0	1957.3	1971.7
40°	1097.3	1112.7	1131.8	1168.1	1232.3	1323.5	1425.8	1577.5	1711.3	1832.1	1871.5
42.5°	993.7	1002.7	1014.4	1047.3	1096.2	1186.9	1280.3	1413.7	1548.0	1692.5	1758.6
45°	844.5	853.8	873.5	892.6	929.6	992.5	1079.4	1189.1	1324.1	1463.5	1585.5
47.5°	736.7	742.7	754.4	774.9	806.3	847.7	918.5	1010.1	1135.2	1270.5	1400.5
50°	675.6	680.6	689.8	708.3	732.4	769.3	827.2	912.9	1010.9	1147.2	1274.8
52.5°	627.3	629.3	636.1	648.6	667.7	698.8	746.4	817.3	908.4	1029.8	1156.9
55°	552.3	554.8	561.0	570.2	586.8	606.5	642.9	696.0	775.5	880.9	991.2
57.5°	490.7	492.4	497.6	501.1	514.9	530.9	558.8	596.7	657.0	746.4	844.9
60°	451.2	450.0	456.2	459.2	468.5	482.1	503.6	540.0	592.4	664.5	755.1
62.5°	412.8	411.1	416.3	420.3	425.6	437.2	454.8	483.3	525.8	591.0	669.3
65°	355.1	352.6	355.7	360.6	365.5	371.8	384.7	409.9	443.8	490.7	550.5
67.5°	297.1	299.7	300.2	302.6	305.5	313.9	322.8	340.6	364.5	402.1	452.7
70°	262.6	263.2	265.7	265.7	267.5	274.9	282.3	292.8	316.2	350.8	392.1
72.5°	228.1	230.7	229.7	231.7	233.0	237.9	243.3	253.3	273.3	299.0	333.9
75°	177.5	179.4	179.4	180.0	181.8	183.7	188.0	195.4	209.6	228.7	252.7
77.5°	129.5	129.7	130.5	132.8	132.8	135.7	138.9	144.9	151.9	165.0	179.6
80°	99.9	101.1	100.5	101.7	101.7	104.2	105.4	112.8	115.9	124.5	136.3
82.5°	73.2	74.5	74.4	76.1	77.0	77.6	79.3	82.2	85.3	92.9	97.7
85°	37.0	38.3	37.0	38.3	40.0	40.7	42.5	43.2	45.7	47.4	51.8
87.5°	14.6	16.1	16.2	16.6	17.4	17.8	18.2	17.5	19.3	20.0	21.6
90°	18.7	18.7	19.6	18.7	17.8	17.8	16.9	16.1	15.2	16.1	14.3
92.5°	68.6	68.6	71.6	76.4	86.9	104.7	131.6	174.9	235.2	282.4	247.1
95°	217.2	228.8	244.8	272.4	316.0	402.3	521.7	659.6	746.0	725.5	547.5
97.5°	580.6	599.1	625.8	679.4	743.3	836.2	923.3	974.6	937.2	764.1	512.4
100°	816.4	823.4	850.2	904.5	981.9	1047.8	1091.4	1073.6	943.6	715.7	464.7
102.5°	1021.5	1027.2	1055.3	1094.6	1142.1	1169.6	1156.9	1068.6	890.2	655.2	432.7
105°	1252.5	1257.8	1270.3	1277.5	1275.7	1239.1	1151.0	997.0	793.2	584.0	405.0
107.5°	1338.4	1336.1	1327.1	1306.8	1262.8	1183.5	1059.4	895.4	714.8	544.1	400.0
110°	1339.8	1331.8	1315.7	1278.4	1215.1	1117.2	988.1	834.1	675.6	530.6	401.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1297.7	1284.8	1262.3	1217.1	1145.3	1047.4	925.4	789.3	653.6	524.1	405.7
115°	1202.7	1195.5	1167.1	1113.7	1043.3	957.9	853.7	744.2	632.9	520.8	413.9
117.5°	1106.3	1100.8	1072.0	1027.2	967.1	894.7	812.8	722.1	623.7	519.9	422.7
120°	1052.2	1042.4	1019.3	980.1	929.3	866.2	795.0	712.1	618.7	519.9	429.1
122.5°	1009.5	999.7	980.1	946.6	903.7	848.4	783.5	703.6	613.0	519.2	435.5
125°	959.7	954.3	937.4	911.6	875.9	827.0	765.5	689.0	603.6	518.1	445.1
127.5°	930.4	925.1	910.9	887.9	852.1	805.7	744.4	671.2	590.9	516.1	452.7
130°	913.4	908.0	893.8	871.5	835.0	787.8	727.3	657.0	583.1	515.4	458.4
132.5°	894.1	888.8	875.2	850.2	814.4	767.1	708.1	642.0	576.0	514.7	463.4
135°	858.2	852.8	838.6	813.7	778.0	733.5	679.2	621.3	565.3	513.6	470.9
137.5°	813.7	807.3	795.5	770.9	737.6	697.4	651.7	602.7	556.0	513.4	475.4
140°	781.6	774.5	762.1	742.4	711.2	673.9	633.8	592.0	551.1	512.7	478.9
142.5°	747.4	742.4	731.4	713.2	685.6	653.3	618.8	582.0	546.8	512.7	481.8
145°	700.6	696.2	687.2	672.1	649.9	624.9	598.2	567.9	539.5	511.0	483.4
147.5°	659.1	657.5	650.8	637.8	621.3	601.8	580.4	556.3	532.9	507.7	484.3
150°	635.6	634.7	629.4	617.8	603.6	587.5	569.7	549.3	527.9	505.6	484.3
152.5°	614.2	613.3	610.1	600.7	588.6	575.4	559.0	541.4	522.2	502.0	482.9
155°	586.7	586.7	584.0	576.8	567.9	557.2	543.9	529.7	513.6	496.8	480.7
157.5°	562.4	562.4	560.8	555.4	548.8	540.2	529.0	517.0	504.9	491.2	478.4
160°	547.5	547.5	546.6	541.3	535.9	528.8	519.0	509.2	498.6	487.0	476.3
162.5°	533.2	534.0	533.1	527.7	523.8	517.4	509.7	501.3	492.8	482.7	474.1
165°	511.8	512.7	513.6	510.1	506.5	502.0	495.9	490.5	483.4	476.3	470.0
167.5°	495.0	495.7	495.9	493.6	491.8	489.1	484.1	480.0	474.8	469.8	465.7
170°	484.3	484.3	485.2	484.3	482.5	479.8	476.3	473.6	469.1	465.6	462.9
172.5°	473.6	475.0	475.9	475.0	473.9	472.0	469.8	467.9	464.1	461.3	460.0
175°	461.1	462.9	464.7	462.9	462.9	462.9	461.1	460.2	458.4	456.6	456.6
177.5°	453.8	455.2	456.6	455.9	456.6	455.9	455.9	455.2	454.5	453.8	453.8
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1536.0	1529.0	1524.1	1520.2	1509.3	1502.9	1498.0	1491.0	1483.2	1474.8	1464.5
5°	1623.1	1602.1	1586.7	1563.3	1541.1	1522.6	1503.5	1486.2	1465.3	1442.5	1425.8
7.5°	1714.7	1683.6	1643.6	1608.9	1569.9	1536.1	1505.7	1474.6	1442.3	1411.0	1382.3
10°	1772.9	1732.9	1688.5	1636.0	1586.7	1542.9	1502.3	1462.9	1424.6	1386.3	1353.7
12.5°	1835.5	1785.6	1720.0	1658.8	1603.5	1545.0	1495.8	1447.5	1401.4	1361.2	1323.1
15°	1919.6	1847.4	1771.7	1689.7	1616.9	1548.5	1481.3	1420.3	1368.5	1315.5	1278.5
17.5°	1971.3	1882.0	1795.4	1709.7	1621.6	1535.3	1462.9	1392.4	1327.6	1275.0	1228.3
20°	2005.3	1916.6	1808.7	1723.0	1618.2	1529.4	1445.6	1367.3	1299.5	1243.4	1195.2
22.5°	2034.9	1932.3	1824.4	1711.6	1607.3	1513.1	1421.4	1342.6	1273.4	1214.2	1168.1
25°	2050.9	1933.1	1816.1	1703.9	1585.5	1473.9	1390.7	1298.2	1224.2	1162.0	1112.7
27.5°	2052.6	1926.7	1794.2	1669.6	1547.4	1443.5	1338.5	1255.8	1179.0	1113.2	1065.9
30°	2047.2	1915.9	1773.5	1638.5	1515.8	1403.0	1311.8	1221.8	1143.5	1078.2	1028.9
32.5°	2030.0	1893.2	1746.9	1604.0	1476.9	1366.5	1272.4	1186.8	1110.4	1046.1	994.3
35°	1980.0	1845.0	1689.1	1540.5	1410.4	1298.9	1213.8	1126.9	1050.4	989.4	939.5
37.5°	1902.0	1779.9	1621.4	1467.7	1339.9	1227.8	1143.5	1065.0	996.0	934.1	882.9
40°	1833.9	1726.6	1567.6	1417.8	1279.8	1173.1	1094.2	1022.1	953.7	895.1	846.4
42.5°	1755.5	1662.1	1515.4	1356.6	1223.5	1116.4	1039.5	974.7	910.3	856.1	807.4
45°	1615.7	1554.1	1415.9	1269.3	1130.6	1029.5	956.1	899.4	845.2	792.1	751.4
47.5°	1454.9	1424.3	1308.1	1168.8	1037.1	937.5	873.9	821.4	773.9	729.0	693.1
50°	1346.9	1332.1	1231.6	1097.3	971.5	877.8	813.7	768.7	728.0	688.6	654.7
52.5°	1240.4	1239.9	1149.3	1026.3	909.9	819.7	756.0	714.0	678.7	646.7	616.2
55°	1077.5	1094.8	1024.0	914.2	810.0	728.6	671.3	633.7	609.0	582.6	559.7
57.5°	928.0	956.6	898.1	801.5	714.6	639.6	589.7	561.4	535.2	519.2	502.6
60°	830.4	857.5	811.9	730.5	648.5	584.4	536.9	511.7	488.8	477.8	466.0
62.5°	743.6	767.8	734.0	658.5	587.4	525.7	485.6	461.4	445.9	433.8	426.1
65°	619.6	639.9	610.9	556.1	495.0	445.7	413.0	393.9	379.2	374.2	365.5
67.5°	500.8	519.3	503.6	457.0	408.0	370.8	345.2	326.8	318.1	313.8	307.6
70°	430.3	448.8	432.1	391.5	353.8	322.4	298.4	287.8	278.7	276.8	268.1
72.5°	370.6	383.2	366.6	334.7	302.6	276.1	257.4	246.5	241.7	238.4	233.6
75°	278.0	289.1	278.0	253.3	230.5	212.0	196.0	191.7	186.2	184.3	181.2
77.5°	196.8	206.3	197.9	182.4	165.4	151.1	142.5	137.0	135.7	132.5	134.0
80°	150.4	156.6	148.6	138.1	124.5	114.7	108.5	105.4	101.7	100.5	102.9
82.5°	108.0	110.8	106.6	99.6	89.5	83.1	78.9	75.3	74.5	74.8	74.8
85°	56.1	55.5	54.8	48.7	45.7	41.3	38.9	38.3	37.6	38.9	40.0
87.5°	21.2	21.8	20.2	18.2	16.5	14.9	13.8	13.0	13.8	14.9	15.5
90°	12.5	12.5	7.1	7.1	6.2	5.4	2.7	0.9	2.7	5.4	6.2
92.5°	179.9	110.8	65.5	47.0	34.0	23.2	14.8	10.2	14.8	23.2	34.0
95°	334.7	188.7	111.3	73.9	52.5	40.9	32.0	29.3	32.0	40.9	52.5
97.5°	300.9	180.4	120.7	89.3	71.1	60.4	52.7	52.7	52.7	60.4	71.1
100°	283.1	182.5	130.0	101.5	84.5	73.9	67.7	67.7	67.7	73.9	84.5
102.5°	278.1	189.6	142.0	115.0	98.8	88.8	83.3	81.9	83.3	88.8	98.8
105°	280.4	206.5	163.8	137.9	122.0	111.3	106.8	104.2	106.8	111.3	122.0
107.5°	293.6	226.3	187.1	161.7	146.3	134.9	130.5	128.8	130.5	134.9	146.3
110°	303.5	241.2	202.1	178.1	162.0	151.3	146.9	145.1	146.9	151.3	162.0





TEST NUMBER: P332654-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	314.2	255.5	217.8	193.7	177.7	167.7	162.6	160.8	162.6	167.7	177.7
115°	331.2	277.8	242.1	218.1	201.2	192.3	186.0	183.4	186.0	192.3	201.2
117.5°	348.4	299.3	265.5	240.5	224.7	214.9	209.4	206.9	209.4	214.9	224.7
120°	360.5	314.2	280.4	255.5	240.3	230.6	224.4	222.6	224.4	230.6	240.3
122.5°	371.9	328.5	294.6	270.5	253.9	244.8	238.5	236.8	238.5	244.8	253.9
125°	389.1	348.0	316.0	291.1	274.2	264.4	259.0	255.5	259.0	264.4	274.2
127.5°	403.8	366.2	335.3	310.1	292.5	281.3	274.9	272.1	274.9	281.3	292.5
130°	413.0	378.4	348.0	322.3	305.3	291.9	284.9	281.3	284.9	291.9	305.3
132.5°	422.3	388.3	358.0	333.7	315.3	302.6	293.4	290.5	293.4	302.6	315.3
135°	434.4	402.3	373.0	349.8	331.2	316.0	307.1	303.5	307.1	316.0	331.2
137.5°	443.0	413.0	385.7	363.6	344.1	329.8	319.9	316.6	319.9	329.8	344.1
140°	448.6	420.2	393.5	372.1	353.4	338.3	328.5	325.8	328.5	338.3	353.4
142.5°	452.9	426.6	400.6	380.0	361.9	347.5	338.5	335.8	338.5	347.5	361.9
145°	457.5	433.5	410.4	390.8	373.9	361.4	352.5	349.8	352.5	361.4	373.9
147.5°	461.6	440.7	418.9	401.3	387.3	374.4	366.6	365.7	366.6	374.4	387.3
150°	463.8	444.3	424.6	407.7	394.4	383.7	376.6	375.7	376.6	383.7	394.4
152.5°	465.2	447.1	429.6	414.1	402.2	392.3	385.1	385.0	385.1	392.3	402.2
155°	466.5	451.3	436.2	422.8	413.0	404.1	398.8	397.9	398.8	404.1	413.0
157.5°	466.5	454.3	441.6	431.1	422.5	415.5	410.5	410.5	410.5	415.5	422.5
160°	466.5	455.8	445.1	435.3	428.2	422.0	418.4	418.4	418.4	422.0	428.2
162.5°	466.5	457.2	447.3	439.6	433.2	427.7	424.8	425.5	424.8	427.7	433.2
165°	464.7	457.5	449.5	444.3	439.8	435.3	433.5	433.5	433.5	435.3	439.8
167.5°	462.5	457.4	451.5	447.5	445.0	441.6	440.7	441.6	440.7	441.6	445.0
170°	461.1	456.6	452.2	449.5	447.8	445.1	444.3	445.1	444.3	445.1	447.8
172.5°	459.7	455.9	452.9	450.9	449.9	447.9	447.8	448.6	447.8	447.9	449.9
175°	457.5	454.9	453.1	453.1	452.2	451.3	451.3	452.2	451.3	451.3	452.2
177.5°	455.2	453.8	453.1	453.1	453.1	452.4	453.1	453.8	453.1	452.4	453.1
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



TEST NUMBER: P332654-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1459.5	1455.1	1448.7	1439.8	1432.4	1424.5	1422.5	1419.5	1425.5	1420.5	1419.1
5°	1411.7	1398.7	1382.1	1363.0	1351.8	1335.9	1332.8	1326.6	1320.4	1319.8	1313.7
7.5°	1361.0	1342.0	1320.2	1300.7	1282.7	1265.2	1253.7	1251.2	1242.2	1236.8	1230.7
10°	1328.5	1305.0	1279.8	1261.2	1240.3	1221.8	1208.9	1201.5	1195.2	1188.5	1182.3
12.5°	1289.9	1265.1	1244.2	1224.2	1199.4	1185.3	1164.0	1151.1	1150.0	1150.0	1134.0
15°	1245.2	1220.6	1188.5	1160.1	1146.6	1119.5	1107.8	1093.0	1083.7	1074.4	1067.1
17.5°	1194.1	1163.3	1138.4	1105.8	1079.9	1058.3	1042.9	1034.0	1020.1	1007.0	997.6
20°	1162.0	1129.4	1102.8	1068.3	1039.9	1013.4	1000.5	988.2	977.7	966.6	956.1
22.5°	1129.4	1095.3	1062.8	1029.3	1003.0	975.0	962.5	945.7	935.8	929.6	919.1
25°	1078.2	1041.2	1004.2	972.1	945.0	920.3	903.7	890.7	879.7	874.8	868.0
27.5°	1022.4	985.7	949.9	913.6	882.8	864.9	851.6	841.8	835.4	828.8	825.8
30°	986.9	948.7	910.5	876.6	848.2	830.4	818.1	811.3	806.3	803.3	800.1
32.5°	950.9	913.2	873.0	842.0	816.6	800.8	791.4	784.6	782.1	781.0	779.9
35°	893.2	855.0	818.1	790.3	766.2	760.1	752.1	748.3	747.2	751.4	753.3
37.5°	837.4	801.9	767.9	740.9	725.2	716.2	713.5	713.6	718.0	721.8	726.3
40°	801.4	766.9	734.8	711.4	696.6	691.1	689.8	692.9	697.9	702.1	707.0
42.5°	766.3	732.4	703.2	681.3	670.9	665.8	666.6	669.7	676.6	681.9	689.3
45°	712.0	683.7	655.3	637.4	628.7	630.0	630.0	635.5	642.3	650.3	658.4
47.5°	660.8	632.2	608.9	593.9	589.4	588.4	591.8	599.1	608.8	618.7	629.9
50°	626.3	599.1	578.8	565.3	560.4	562.2	567.1	573.9	585.6	598.0	609.7
52.5°	591.3	566.6	547.8	535.2	531.7	535.1	540.0	550.7	561.0	574.3	588.4
55°	536.9	515.9	501.1	492.0	490.7	492.6	498.1	509.8	524.6	541.3	554.8
57.5°	482.8	465.3	451.7	445.3	445.9	447.6	456.8	470.7	486.5	504.3	521.7
60°	446.3	430.3	419.2	414.3	414.8	418.6	429.6	442.6	462.4	479.6	498.1
62.5°	411.8	397.7	387.1	382.7	381.8	389.9	400.6	414.0	433.7	453.0	473.0
65°	356.3	345.2	336.6	334.1	336.0	342.1	355.7	373.5	390.2	410.5	431.5
67.5°	302.0	292.9	287.0	288.1	290.3	299.4	310.9	326.2	345.1	366.1	386.9
70°	267.5	258.9	254.0	254.6	258.3	269.4	279.3	294.6	315.0	336.6	353.8
72.5°	232.0	226.3	221.9	224.5	228.2	235.9	248.2	263.6	281.5	301.6	319.8
75°	178.2	178.2	175.7	177.5	183.1	190.5	199.7	215.8	233.6	249.7	264.5
77.5°	132.2	130.8	132.4	134.6	137.9	146.6	157.2	168.6	182.1	198.1	210.4
80°	101.1	101.7	104.8	108.5	109.8	116.5	127.6	138.1	148.6	162.1	173.8
82.5°	76.0	76.6	78.2	82.8	84.1	91.4	98.5	109.0	118.5	127.6	137.3
85°	41.3	41.3	44.4	46.2	49.3	54.2	58.6	64.7	73.4	79.5	88.7
87.5°	17.2	17.2	20.2	21.2	23.1	25.9	26.7	32.3	34.4	37.1	41.6
90°	7.1	7.1	12.5	12.5	14.3	16.1	15.2	16.1	16.9	17.8	17.8
92.5°	47.0	65.5	110.8	179.9	247.1	282.4	235.2	174.9	131.6	104.7	86.9
95°	73.9	111.3	188.7	334.7	547.5	725.5	746.0	659.6	521.7	402.3	316.0
97.5°	89.3	120.7	180.4	300.9	512.4	764.1	937.2	974.6	923.3	836.2	743.3
100°	101.5	130.0	182.5	283.1	464.7	715.7	943.6	1073.6	1091.4	1047.8	981.9
102.5°	115.0	142.0	189.6	278.1	432.7	655.2	890.2	1068.6	1156.9	1169.6	1142.1
105°	137.9	163.8	206.5	280.4	405.0	584.0	793.2	997.0	1151.0	1239.1	1275.7
107.5°	161.7	187.1	226.3	293.6	400.0	544.1	714.8	895.4	1059.4	1183.5	1262.8
110°	178.1	202.1	241.2	303.5	401.4	530.6	675.6	834.1	988.1	1117.2	1215.1



TEST NUMBER: P332654-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	193.7	217.8	255.5	314.2	405.7	524.1	653.6	789.3	925.4	1047.4	1145.3
115°	218.1	242.1	277.8	331.2	413.9	520.8	632.9	744.2	853.7	957.9	1043.3
117.5°	240.5	265.5	299.3	348.4	422.7	519.9	623.7	722.1	812.8	894.7	967.1
120°	255.5	280.4	314.2	360.5	429.1	519.9	618.7	712.1	795.0	866.2	929.3
122.5°	270.5	294.6	328.5	371.9	435.5	519.2	613.0	703.6	783.5	848.4	903.7
125°	291.1	316.0	348.0	389.1	445.1	518.1	603.6	689.0	765.5	827.0	875.9
127.5°	310.1	335.3	366.2	403.8	452.7	516.1	590.9	671.2	744.4	805.7	852.1
130°	322.3	348.0	378.4	413.0	458.4	515.4	583.1	657.0	727.3	787.8	835.0
132.5°	333.7	358.0	388.3	422.3	463.4	514.7	576.0	642.0	708.1	767.1	814.4
135°	349.8	373.0	402.3	434.4	470.9	513.6	565.3	621.3	679.2	733.5	778.0
137.5°	363.6	385.7	413.0	443.0	475.4	513.4	556.0	602.7	651.7	697.4	737.6
140°	372.1	393.5	420.2	448.6	478.9	512.7	551.1	592.0	633.8	673.9	711.2
142.5°	380.0	400.6	426.6	452.9	481.8	512.7	546.8	582.0	618.8	653.3	685.6
145°	390.8	410.4	433.5	457.5	483.4	511.0	539.5	567.9	598.2	624.9	649.9
147.5°	401.3	418.9	440.7	461.6	484.3	507.7	532.9	556.3	580.4	601.8	621.3
150°	407.7	424.6	444.3	463.8	484.3	505.6	527.9	549.3	569.7	587.5	603.6
152.5°	414.1	429.6	447.1	465.2	482.9	502.0	522.2	541.4	559.0	575.4	588.6
155°	422.8	436.2	451.3	466.5	480.7	496.8	513.6	529.7	543.9	557.2	567.9
157.5°	431.1	441.6	454.3	466.5	478.4	491.2	504.9	517.0	529.0	540.2	548.8
160°	435.3	445.1	455.8	466.5	476.3	487.0	498.6	509.2	519.0	528.8	535.9
162.5°	439.6	447.3	457.2	466.5	474.1	482.7	492.8	501.3	509.7	517.4	523.8
165°	444.3	449.5	457.5	464.7	470.0	476.3	483.4	490.5	495.9	502.0	506.5
167.5°	447.5	451.5	457.4	462.5	465.7	469.8	474.8	480.0	484.1	489.1	491.8
170°	449.5	452.2	456.6	461.1	462.9	465.6	469.1	473.6	476.3	479.8	482.5
172.5°	450.9	452.9	455.9	459.7	460.0	461.3	464.1	467.9	469.8	472.0	473.9
175°	453.1	453.1	454.9	457.5	456.6	456.6	458.4	460.2	461.1	462.9	462.9
177.5°	453.1	453.1	453.8	455.2	453.8	453.8	454.5	455.2	455.9	455.9	456.6
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



TEST NUMBER: P332654-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1418.1	1417.1	1413.6	1413.2	1413.6	1417.1	1418.1	1419.1	1420.5	1425.5	1419.5
5°	1309.9	1306.9	1305.0	1311.8	1305.0	1306.9	1309.9	1313.7	1319.8	1320.4	1326.6
7.5°	1228.4	1226.0	1220.6	1218.9	1220.6	1226.0	1228.4	1230.7	1236.8	1242.2	1251.2
10°	1176.2	1173.7	1168.8	1167.5	1168.8	1173.7	1176.2	1182.3	1188.5	1195.2	1201.5
12.5°	1125.9	1121.0	1120.0	1121.1	1120.0	1121.0	1125.9	1134.0	1150.0	1150.0	1151.1
15°	1059.1	1056.6	1049.8	1051.7	1049.8	1056.6	1059.1	1067.1	1074.4	1083.7	1093.0
17.5°	993.2	990.2	982.0	989.3	982.0	990.2	993.2	997.6	1007.0	1020.1	1034.0
20°	951.8	946.8	942.5	941.9	942.5	946.8	951.8	956.1	966.6	977.7	988.2
22.5°	912.3	907.9	907.5	903.5	907.5	907.9	912.3	919.1	929.6	935.8	945.7
25°	863.0	858.7	857.5	854.4	857.5	858.7	863.0	868.0	874.8	879.7	890.7
27.5°	825.2	823.0	820.8	821.8	820.8	823.0	825.2	825.8	828.8	835.4	841.8
30°	802.0	801.4	800.1	800.1	800.1	801.4	802.0	800.1	803.3	806.3	811.3
32.5°	782.7	782.7	783.4	783.4	783.4	782.7	782.7	779.9	781.0	782.1	784.6
35°	755.7	757.6	758.8	757.0	758.8	757.6	755.7	753.3	751.4	747.2	748.3
37.5°	731.4	733.2	734.9	737.0	734.9	733.2	731.4	726.3	721.8	718.0	713.6
40°	712.6	716.9	718.2	721.2	718.2	716.9	712.6	707.0	702.1	697.9	692.9
42.5°	694.8	699.6	702.8	703.5	702.8	699.6	694.8	689.3	681.9	676.6	669.7
45°	667.6	672.5	676.9	676.9	676.9	672.5	667.6	658.4	650.3	642.3	635.5
47.5°	639.4	646.5	650.9	651.9	650.9	646.5	639.4	629.9	618.7	608.8	599.1
50°	620.2	628.7	633.1	636.1	633.1	628.7	620.2	609.7	598.0	585.6	573.9
52.5°	601.4	610.0	615.8	617.4	615.8	610.0	601.4	588.4	574.3	561.0	550.7
55°	569.0	581.3	588.1	590.6	588.1	581.3	569.0	554.8	541.3	524.6	509.8
57.5°	538.4	549.7	557.7	559.5	557.7	549.7	538.4	521.7	504.3	486.5	470.7
60°	514.7	527.1	536.9	538.8	536.9	527.1	514.7	498.1	479.6	462.4	442.6
62.5°	490.5	503.4	512.3	517.1	512.3	503.4	490.5	473.0	453.0	433.7	414.0
65°	448.8	461.7	470.4	472.2	470.4	461.7	448.8	431.5	410.5	390.2	373.5
67.5°	403.1	416.1	421.8	425.3	421.8	416.1	403.1	386.9	366.1	345.1	326.2
70°	371.1	381.6	387.7	390.8	387.7	381.6	371.1	353.8	336.6	315.0	294.6
72.5°	334.6	345.5	352.8	353.4	352.8	345.5	334.6	319.8	301.6	281.5	263.6
75°	278.7	288.5	292.2	292.2	292.2	288.5	278.7	264.5	249.7	233.6	215.8
77.5°	220.5	225.6	230.3	231.3	230.3	225.6	220.5	210.4	198.1	182.1	168.6
80°	183.1	186.2	189.8	189.8	189.8	186.2	183.1	173.8	162.1	148.6	138.1
82.5°	144.6	147.2	150.9	150.4	150.9	147.2	144.6	137.3	127.6	118.5	109.0
85°	87.6	93.1	92.5	91.2	92.5	93.1	87.6	88.7	79.5	73.4	64.7
87.5°	43.2	43.9	45.1	46.2	45.1	43.9	43.2	41.6	37.1	34.4	32.3
90°	18.7	19.6	18.7	18.7	18.7	19.6	18.7	17.8	17.8	16.9	16.1
92.5°	76.4	71.6	68.6	68.6	68.6	71.6	76.4	86.9	104.7	131.6	174.9
95°	272.4	244.8	228.8	217.2	228.8	244.8	272.4	316.0	402.3	521.7	659.6
97.5°	679.4	625.8	599.1	580.6	599.1	625.8	679.4	743.3	836.2	923.3	974.6
100°	904.5	850.2	823.4	816.4	823.4	850.2	904.5	981.9	1047.8	1091.4	1073.6
102.5°	1094.6	1055.3	1027.2	1021.5	1027.2	1055.3	1094.6	1142.1	1169.6	1156.9	1068.6
105°	1277.5	1270.3	1257.8	1252.5	1257.8	1270.3	1277.5	1275.7	1239.1	1151.0	997.0
107.5°	1306.8	1327.1	1336.1	1338.4	1336.1	1327.1	1306.8	1262.8	1183.5	1059.4	895.4
110°	1278.4	1315.7	1331.8	1339.8	1331.8	1315.7	1278.4	1215.1	1117.2	988.1	834.1



TEST NUMBER: P332654-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1217.1	1262.3	1284.8	1297.7	1284.8	1262.3	1217.1	1145.3	1047.4	925.4	789.3
115°	1113.7	1167.1	1195.5	1202.7	1195.5	1167.1	1113.7	1043.3	957.9	853.7	744.2
117.5°	1027.2	1072.0	1100.8	1106.3	1100.8	1072.0	1027.2	967.1	894.7	812.8	722.1
120°	980.1	1019.3	1042.4	1052.2	1042.4	1019.3	980.1	929.3	866.2	795.0	712.1
122.5°	946.6	980.1	999.7	1009.5	999.7	980.1	946.6	903.7	848.4	783.5	703.6
125°	911.6	937.4	954.3	959.7	954.3	937.4	911.6	875.9	827.0	765.5	689.0
127.5°	887.9	910.9	925.1	930.4	925.1	910.9	887.9	852.1	805.7	744.4	671.2
130°	871.5	893.8	908.0	913.4	908.0	893.8	871.5	835.0	787.8	727.3	657.0
132.5°	850.2	875.2	888.8	894.1	888.8	875.2	850.2	814.4	767.1	708.1	642.0
135°	813.7	838.6	852.8	858.2	852.8	838.6	813.7	778.0	733.5	679.2	621.3
137.5°	770.9	795.5	807.3	813.7	807.3	795.5	770.9	737.6	697.4	651.7	602.7
140°	742.4	762.1	774.5	781.6	774.5	762.1	742.4	711.2	673.9	633.8	592.0
142.5°	713.2	731.4	742.4	747.4	742.4	731.4	713.2	685.6	653.3	618.8	582.0
145°	672.1	687.2	696.2	700.6	696.2	687.2	672.1	649.9	624.9	598.2	567.9
147.5°	637.8	650.8	657.5	659.1	657.5	650.8	637.8	621.3	601.8	580.4	556.3
150°	617.8	629.4	634.7	635.6	634.7	629.4	617.8	603.6	587.5	569.7	549.3
152.5°	600.7	610.1	613.3	614.2	613.3	610.1	600.7	588.6	575.4	559.0	541.4
155°	576.8	584.0	586.7	586.7	586.7	584.0	576.8	567.9	557.2	543.9	529.7
157.5°	555.4	560.8	562.4	562.4	562.4	560.8	555.4	548.8	540.2	529.0	517.0
160°	541.3	546.6	547.5	547.5	547.5	546.6	541.3	535.9	528.8	519.0	509.2
162.5°	527.7	533.1	534.0	533.2	534.0	533.1	527.7	523.8	517.4	509.7	501.3
165°	510.1	513.6	512.7	511.8	512.7	513.6	510.1	506.5	502.0	495.9	490.5
167.5°	493.6	495.9	495.7	495.0	495.7	495.9	493.6	491.8	489.1	484.1	480.0
170°	484.3	485.2	484.3	484.3	484.3	485.2	484.3	482.5	479.8	476.3	473.6
172.5°	475.0	475.9	475.0	473.6	475.0	475.9	475.0	473.9	472.0	469.8	467.9
175°	462.9	464.7	462.9	461.1	462.9	464.7	462.9	462.9	462.9	461.1	460.2
177.5°	455.9	456.6	455.2	453.8	455.2	456.6	455.9	456.6	455.9	455.9	455.2
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



TEST NUMBER: P332654-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1422.5	1424.5	1432.4	1439.8	1448.7	1455.1	1459.5	1464.5	1474.8	1483.2	1491.0
5°	1332.8	1335.9	1351.8	1363.0	1382.1	1398.7	1411.7	1425.8	1442.5	1465.3	1486.2
7.5°	1253.7	1265.2	1282.7	1300.7	1320.2	1342.0	1361.0	1382.3	1411.0	1442.3	1474.6
10°	1208.9	1221.8	1240.3	1261.2	1279.8	1305.0	1328.5	1353.7	1386.3	1424.6	1462.9
12.5°	1164.0	1185.3	1199.4	1224.2	1244.2	1265.1	1289.9	1323.1	1361.2	1401.4	1447.5
15°	1107.8	1119.5	1146.6	1160.1	1188.5	1220.6	1245.2	1278.5	1315.5	1368.5	1420.3
17.5°	1042.9	1058.3	1079.9	1105.8	1138.4	1163.3	1194.1	1228.3	1275.0	1327.6	1392.4
20°	1000.5	1013.4	1039.9	1068.3	1102.8	1129.4	1162.0	1195.2	1243.4	1299.5	1367.3
22.5°	962.5	975.0	1003.0	1029.3	1062.8	1095.3	1129.4	1168.1	1214.2	1273.4	1342.6
25°	903.7	920.3	945.0	972.1	1004.2	1041.2	1078.2	1112.7	1162.0	1224.2	1298.2
27.5°	851.6	864.9	882.8	913.6	949.9	985.7	1022.4	1065.9	1113.2	1179.0	1255.8
30°	818.1	830.4	848.2	876.6	910.5	948.7	986.9	1028.9	1078.2	1143.5	1221.8
32.5°	791.4	800.8	816.6	842.0	873.0	913.2	950.9	994.3	1046.1	1110.4	1186.8
35°	752.1	760.1	766.2	790.3	818.1	855.0	893.2	939.5	989.4	1050.4	1126.9
37.5°	713.5	716.2	725.2	740.9	767.9	801.9	837.4	882.9	934.1	996.0	1065.0
40°	689.8	691.1	696.6	711.4	734.8	766.9	801.4	846.4	895.1	953.7	1022.1
42.5°	666.6	665.8	670.9	681.3	703.2	732.4	766.3	807.4	856.1	910.3	974.7
45°	630.0	630.0	628.7	637.4	655.3	683.7	712.0	751.4	792.1	845.2	899.4
47.5°	591.8	588.4	589.4	593.9	608.9	632.2	660.8	693.1	729.0	773.9	821.4
50°	567.1	562.2	560.4	565.3	578.8	599.1	626.3	654.7	688.6	728.0	768.7
52.5°	540.0	535.1	531.7	535.2	547.8	566.6	591.3	616.2	646.7	678.7	714.0
55°	498.1	492.6	490.7	492.0	501.1	515.9	536.9	559.7	582.6	609.0	633.7
57.5°	456.8	447.6	445.9	445.3	451.7	465.3	482.8	502.6	519.2	535.2	561.4
60°	429.6	418.6	414.8	414.3	419.2	430.3	446.3	466.0	477.8	488.8	511.7
62.5°	400.6	389.9	381.8	382.7	387.1	397.7	411.8	426.1	433.8	445.9	461.4
65°	355.7	342.1	336.0	334.1	336.6	345.2	356.3	365.5	374.2	379.2	393.9
67.5°	310.9	299.4	290.3	288.1	287.0	292.9	302.0	307.6	313.8	318.1	326.8
70°	279.3	269.4	258.3	254.6	254.0	258.9	267.5	268.1	276.8	278.7	287.8
72.5°	248.2	235.9	228.2	224.5	221.9	226.3	232.0	233.6	238.4	241.7	246.5
75°	199.7	190.5	183.1	177.5	175.7	178.2	178.2	181.2	184.3	186.2	191.7
77.5°	157.2	146.6	137.9	134.6	132.4	130.8	132.2	134.0	132.5	135.7	137.0
80°	127.6	116.5	109.8	108.5	104.8	101.7	101.1	102.9	100.5	101.7	105.4
82.5°	98.5	91.4	84.1	82.8	78.2	76.6	76.0	74.8	74.8	74.5	75.3
85°	58.6	54.2	49.3	46.2	44.4	41.3	41.3	40.0	38.9	37.6	38.3
87.5°	26.7	25.9	23.1	21.2	20.2	17.2	17.2	15.5	14.9	13.8	13.0
90°	15.2	16.1	14.3	12.5	12.5	7.1	7.1	6.2	5.4	2.7	0.9
92.5°	235.2	282.4	247.1	179.9	110.8	65.5	47.0	34.0	23.2	14.8	10.2
95°	746.0	725.5	547.5	334.7	188.7	111.3	73.9	52.5	40.9	32.0	29.3
97.5°	937.2	764.1	512.4	300.9	180.4	120.7	89.3	71.1	60.4	52.7	52.7
100°	943.6	715.7	464.7	283.1	182.5	130.0	101.5	84.5	73.9	67.7	67.7
102.5°	890.2	655.2	432.7	278.1	189.6	142.0	115.0	98.8	88.8	83.3	81.9
105°	793.2	584.0	405.0	280.4	206.5	163.8	137.9	122.0	111.3	106.8	104.2
107.5°	714.8	544.1	400.0	293.6	226.3	187.1	161.7	146.3	134.9	130.5	128.8
110°	675.6	530.6	401.4	303.5	241.2	202.1	178.1	162.0	151.3	146.9	145.1



TEST NUMBER: P332654-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	653.6	524.1	405.7	314.2	255.5	217.8	193.7	177.7	167.7	162.6	160.8
115°	632.9	520.8	413.9	331.2	277.8	242.1	218.1	201.2	192.3	186.0	183.4
117.5°	623.7	519.9	422.7	348.4	299.3	265.5	240.5	224.7	214.9	209.4	206.9
120°	618.7	519.9	429.1	360.5	314.2	280.4	255.5	240.3	230.6	224.4	222.6
122.5°	613.0	519.2	435.5	371.9	328.5	294.6	270.5	253.9	244.8	238.5	236.8
125°	603.6	518.1	445.1	389.1	348.0	316.0	291.1	274.2	264.4	259.0	255.5
127.5°	590.9	516.1	452.7	403.8	366.2	335.3	310.1	292.5	281.3	274.9	272.1
130°	583.1	515.4	458.4	413.0	378.4	348.0	322.3	305.3	291.9	284.9	281.3
132.5°	576.0	514.7	463.4	422.3	388.3	358.0	333.7	315.3	302.6	293.4	290.5
135°	565.3	513.6	470.9	434.4	402.3	373.0	349.8	331.2	316.0	307.1	303.5
137.5°	556.0	513.4	475.4	443.0	413.0	385.7	363.6	344.1	329.8	319.9	316.6
140°	551.1	512.7	478.9	448.6	420.2	393.5	372.1	353.4	338.3	328.5	325.8
142.5°	546.8	512.7	481.8	452.9	426.6	400.6	380.0	361.9	347.5	338.5	335.8
145°	539.5	511.0	483.4	457.5	433.5	410.4	390.8	373.9	361.4	352.5	349.8
147.5°	532.9	507.7	484.3	461.6	440.7	418.9	401.3	387.3	374.4	366.6	365.7
150°	527.9	505.6	484.3	463.8	444.3	424.6	407.7	394.4	383.7	376.6	375.7
152.5°	522.2	502.0	482.9	465.2	447.1	429.6	414.1	402.2	392.3	385.1	385.0
155°	513.6	496.8	480.7	466.5	451.3	436.2	422.8	413.0	404.1	398.8	397.9
157.5°	504.9	491.2	478.4	466.5	454.3	441.6	431.1	422.5	415.5	410.5	410.5
160°	498.6	487.0	476.3	466.5	455.8	445.1	435.3	428.2	422.0	418.4	418.4
162.5°	492.8	482.7	474.1	466.5	457.2	447.3	439.6	433.2	427.7	424.8	425.5
165°	483.4	476.3	470.0	464.7	457.5	449.5	444.3	439.8	435.3	433.5	433.5
167.5°	474.8	469.8	465.7	462.5	457.4	451.5	447.5	445.0	441.6	440.7	441.6
170°	469.1	465.6	462.9	461.1	456.6	452.2	449.5	447.8	445.1	444.3	445.1
172.5°	464.1	461.3	460.0	459.7	455.9	452.9	450.9	449.9	447.9	447.8	448.6
175°	458.4	456.6	456.6	457.5	454.9	453.1	453.1	452.2	451.3	451.3	452.2
177.5°	454.5	453.8	453.8	455.2	453.8	453.1	453.1	453.1	452.4	453.1	453.8
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



TEST NUMBER: P332654-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1498.0	1502.9	1509.3	1520.2	1524.1	1529.0	1536.0	1535.4	1537.4	1544.8	1560.6
5°	1503.5	1522.6	1541.1	1563.3	1586.7	1602.1	1623.1	1636.0	1649.0	1665.6	1694.0
7.5°	1505.7	1536.1	1569.9	1608.9	1643.6	1683.6	1714.7	1744.0	1770.6	1805.7	1839.5
10°	1502.3	1542.9	1586.7	1636.0	1688.5	1732.9	1772.9	1818.6	1857.3	1899.9	1938.1
12.5°	1495.8	1545.0	1603.5	1658.8	1720.0	1785.6	1835.5	1881.6	1933.3	1982.3	2041.2
15°	1481.3	1548.5	1616.9	1689.7	1771.7	1847.4	1919.6	1979.4	2034.9	2108.3	2185.3
17.5°	1462.9	1535.3	1621.6	1709.7	1795.4	1882.0	1971.3	2061.2	2131.2	2222.3	2282.6
20°	1445.6	1529.4	1618.2	1723.0	1808.7	1916.6	2005.3	2092.2	2188.3	2279.0	2351.1
22.5°	1421.4	1513.1	1607.3	1711.6	1824.4	1932.3	2034.9	2129.2	2225.4	2323.9	2411.3
25°	1390.7	1473.9	1585.5	1703.9	1816.1	1933.1	2050.9	2169.3	2272.8	2377.0	2458.4
27.5°	1338.5	1443.5	1547.4	1669.6	1794.2	1926.7	2052.6	2176.6	2285.0	2370.7	2421.2
30°	1311.8	1403.0	1515.8	1638.5	1773.5	1915.9	2047.2	2168.6	2269.8	2338.2	2358.5
32.5°	1272.4	1366.5	1476.9	1604.0	1746.9	1893.2	2030.0	2144.5	2228.8	2264.7	2240.2
35°	1213.8	1298.9	1410.4	1540.5	1689.1	1845.0	1980.0	2076.8	2120.0	2086.1	2001.6
37.5°	1143.5	1227.8	1339.9	1467.7	1621.4	1779.9	1902.0	1971.7	1957.3	1873.0	1747.1
40°	1094.2	1173.1	1279.8	1417.8	1567.6	1726.6	1833.9	1871.5	1832.1	1711.3	1577.5
42.5°	1039.5	1116.4	1223.5	1356.6	1515.4	1662.1	1755.5	1758.6	1692.5	1548.0	1413.7
45°	956.1	1029.5	1130.6	1269.3	1415.9	1554.1	1615.7	1585.5	1463.5	1324.1	1189.1
47.5°	873.9	937.5	1037.1	1168.8	1308.1	1424.3	1454.9	1400.5	1270.5	1135.2	1010.1
50°	813.7	877.8	971.5	1097.3	1231.6	1332.1	1346.9	1274.8	1147.2	1010.9	912.9
52.5°	756.0	819.7	909.9	1026.3	1149.3	1239.9	1240.4	1156.9	1029.8	908.4	817.3
55°	671.3	728.6	810.0	914.2	1024.0	1094.8	1077.5	991.2	880.9	775.5	696.0
57.5°	589.7	639.6	714.6	801.5	898.1	956.6	928.0	844.9	746.4	657.0	596.7
60°	536.9	584.4	648.5	730.5	811.9	857.5	830.4	755.1	664.5	592.4	540.0
62.5°	485.6	525.7	587.4	658.5	734.0	767.8	743.6	669.3	591.0	525.8	483.3
65°	413.0	445.7	495.0	556.1	610.9	639.9	619.6	550.5	490.7	443.8	409.9
67.5°	345.2	370.8	408.0	457.0	503.6	519.3	500.8	452.7	402.1	364.5	340.6
70°	298.4	322.4	353.8	391.5	432.1	448.8	430.3	392.1	350.8	316.2	292.8
72.5°	257.4	276.1	302.6	334.7	366.6	383.2	370.6	333.9	299.0	273.3	253.3
75°	196.0	212.0	230.5	253.3	278.0	289.1	278.0	252.7	228.7	209.6	195.4
77.5°	142.5	151.1	165.4	182.4	197.9	206.3	196.8	179.6	165.0	151.9	144.9
80°	108.5	114.7	124.5	138.1	148.6	156.6	150.4	136.3	124.5	115.9	112.8
82.5°	78.9	83.1	89.5	99.6	106.6	110.8	108.0	97.7	92.9	85.3	82.2
85°	38.9	41.3	45.7	48.7	54.8	55.5	56.1	51.8	47.4	45.7	43.2
87.5°	13.8	14.9	16.5	18.2	20.2	21.8	21.2	21.6	20.0	19.3	17.5
90°	2.7	5.4	6.2	7.1	7.1	12.5	12.5	14.3	16.1	15.2	16.1
92.5°	14.8	23.2	34.0	47.0	65.5	110.8	179.9	247.1	282.4	235.2	174.9
95°	32.0	40.9	52.5	73.9	111.3	188.7	334.7	547.5	725.5	746.0	659.6
97.5°	52.7	60.4	71.1	89.3	120.7	180.4	300.9	512.4	764.1	937.2	974.6
100°	67.7	73.9	84.5	101.5	130.0	182.5	283.1	464.7	715.7	943.6	1073.6
102.5°	83.3	88.8	98.8	115.0	142.0	189.6	278.1	432.7	655.2	890.2	1068.6
105°	106.8	111.3	122.0	137.9	163.8	206.5	280.4	405.0	584.0	793.2	997.0
107.5°	130.5	134.9	146.3	161.7	187.1	226.3	293.6	400.0	544.1	714.8	895.4
110°	146.9	151.3	162.0	178.1	202.1	241.2	303.5	401.4	530.6	675.6	834.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	162.6	167.7	177.7	193.7	217.8	255.5	314.2	405.7	524.1	653.6	789.3
115°	186.0	192.3	201.2	218.1	242.1	277.8	331.2	413.9	520.8	632.9	744.2
117.5°	209.4	214.9	224.7	240.5	265.5	299.3	348.4	422.7	519.9	623.7	722.1
120°	224.4	230.6	240.3	255.5	280.4	314.2	360.5	429.1	519.9	618.7	712.1
122.5°	238.5	244.8	253.9	270.5	294.6	328.5	371.9	435.5	519.2	613.0	703.6
125°	259.0	264.4	274.2	291.1	316.0	348.0	389.1	445.1	518.1	603.6	689.0
127.5°	274.9	281.3	292.5	310.1	335.3	366.2	403.8	452.7	516.1	590.9	671.2
130°	284.9	291.9	305.3	322.3	348.0	378.4	413.0	458.4	515.4	583.1	657.0
132.5°	293.4	302.6	315.3	333.7	358.0	388.3	422.3	463.4	514.7	576.0	642.0
135°	307.1	316.0	331.2	349.8	373.0	402.3	434.4	470.9	513.6	565.3	621.3
137.5°	319.9	329.8	344.1	363.6	385.7	413.0	443.0	475.4	513.4	556.0	602.7
140°	328.5	338.3	353.4	372.1	393.5	420.2	448.6	478.9	512.7	551.1	592.0
142.5°	338.5	347.5	361.9	380.0	400.6	426.6	452.9	481.8	512.7	546.8	582.0
145°	352.5	361.4	373.9	390.8	410.4	433.5	457.5	483.4	511.0	539.5	567.9
147.5°	366.6	374.4	387.3	401.3	418.9	440.7	461.6	484.3	507.7	532.9	556.3
150°	376.6	383.7	394.4	407.7	424.6	444.3	463.8	484.3	505.6	527.9	549.3
152.5°	385.1	392.3	402.2	414.1	429.6	447.1	465.2	482.9	502.0	522.2	541.4
155°	398.8	404.1	413.0	422.8	436.2	451.3	466.5	480.7	496.8	513.6	529.7
157.5°	410.5	415.5	422.5	431.1	441.6	454.3	466.5	478.4	491.2	504.9	517.0
160°	418.4	422.0	428.2	435.3	445.1	455.8	466.5	476.3	487.0	498.6	509.2
162.5°	424.8	427.7	433.2	439.6	447.3	457.2	466.5	474.1	482.7	492.8	501.3
165°	433.5	435.3	439.8	444.3	449.5	457.5	464.7	470.0	476.3	483.4	490.5
167.5°	440.7	441.6	445.0	447.5	451.5	457.4	462.5	465.7	469.8	474.8	480.0
170°	444.3	445.1	447.8	449.5	452.2	456.6	461.1	462.9	465.6	469.1	473.6
172.5°	447.8	447.9	449.9	450.9	452.9	455.9	459.7	460.0	461.3	464.1	467.9
175°	451.3	451.3	452.2	453.1	453.1	454.9	457.5	456.6	456.6	458.4	460.2
177.5°	453.1	452.4	453.1	453.1	453.1	453.8	455.2	453.8	453.8	454.5	455.2
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1568.5	1569.5	1573.9	1577.3	1578.3	1583.3	1583.8
5°	1706.3	1716.8	1737.1	1739.0	1742.0	1758.1	1745.8
7.5°	1867.9	1894.4	1912.2	1927.9	1933.6	1940.5	1939.1
10°	1971.4	2010.8	2030.6	2062.0	2063.2	2071.3	2066.4
12.5°	2075.5	2121.3	2157.3	2163.1	2189.5	2193.5	2200.5
15°	2222.9	2271.6	2321.6	2339.4	2375.8	2384.4	2398.0
17.5°	2361.5	2411.3	2446.3	2492.5	2507.5	2527.5	2513.8
20°	2437.4	2491.7	2536.0	2572.4	2587.8	2598.9	2597.7
22.5°	2483.3	2538.0	2574.0	2601.5	2615.9	2620.6	2620.4
25°	2512.0	2543.4	2554.6	2565.0	2549.0	2543.4	2545.9
27.5°	2432.1	2424.0	2395.0	2357.1	2317.6	2286.3	2269.2
30°	2322.2	2274.0	2230.3	2153.8	2114.4	2091.0	2070.0
32.5°	2166.3	2090.1	2005.9	1935.9	1891.1	1856.3	1851.1
35°	1899.3	1784.6	1681.7	1596.0	1551.6	1513.9	1505.4
37.5°	1614.7	1495.6	1402.9	1327.5	1279.8	1253.2	1228.4
40°	1425.8	1323.5	1232.3	1168.1	1131.8	1112.7	1097.3
42.5°	1280.3	1186.9	1096.2	1047.3	1014.4	1002.7	993.7
45°	1079.4	992.5	929.6	892.6	873.5	853.8	844.5
47.5°	918.5	847.7	806.3	774.9	754.4	742.7	736.7
50°	827.2	769.3	732.4	708.3	689.8	680.6	675.6
52.5°	746.4	698.8	667.7	648.6	636.1	629.3	627.3
55°	642.9	606.5	586.8	570.2	561.0	554.8	552.3
57.5°	558.8	530.9	514.9	501.1	497.6	492.4	490.7
60°	503.6	482.1	468.5	459.2	456.2	450.0	451.2
62.5°	454.8	437.2	425.6	420.3	416.3	411.1	412.8
65°	384.7	371.8	365.5	360.6	355.7	352.6	355.1
67.5°	322.8	313.9	305.5	302.6	300.2	299.7	297.1
70°	282.3	274.9	267.5	265.7	265.7	263.2	262.6
72.5°	243.3	237.9	233.0	231.7	229.7	230.7	228.1
75°	188.0	183.7	181.8	180.0	179.4	179.4	177.5
77.5°	138.9	135.7	132.8	132.8	130.5	129.7	129.5
80°	105.4	104.2	101.7	101.7	100.5	101.1	99.9
82.5°	79.3	77.6	77.0	76.1	74.4	74.5	73.2
85°	42.5	40.7	40.0	38.3	37.0	38.3	37.0
87.5°	18.2	17.8	17.4	16.6	16.2	16.1	14.6
90°	16.9	17.8	17.8	18.7	19.6	18.7	18.7
92.5°	131.6	104.7	86.9	76.4	71.6	68.6	68.6
95°	521.7	402.3	316.0	272.4	244.8	228.8	217.2
97.5°	923.3	836.2	743.3	679.4	625.8	599.1	580.6
100°	1091.4	1047.8	981.9	904.5	850.2	823.4	816.4
102.5°	1156.9	1169.6	1142.1	1094.6	1055.3	1027.2	1021.5
105°	1151.0	1239.1	1275.7	1277.5	1270.3	1257.8	1252.5
107.5°	1059.4	1183.5	1262.8	1306.8	1327.1	1336.1	1338.4
110°	988.1	1117.2	1215.1	1278.4	1315.7	1331.8	1339.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	925.4	1047.4	1145.3	1217.1	1262.3	1284.8	1297.7
115°	853.7	957.9	1043.3	1113.7	1167.1	1195.5	1202.7
117.5°	812.8	894.7	967.1	1027.2	1072.0	1100.8	1106.3
120°	795.0	866.2	929.3	980.1	1019.3	1042.4	1052.2
122.5°	783.5	848.4	903.7	946.6	980.1	999.7	1009.5
125°	765.5	827.0	875.9	911.6	937.4	954.3	959.7
127.5°	744.4	805.7	852.1	887.9	910.9	925.1	930.4
130°	727.3	787.8	835.0	871.5	893.8	908.0	913.4
132.5°	708.1	767.1	814.4	850.2	875.2	888.8	894.1
135°	679.2	733.5	778.0	813.7	838.6	852.8	858.2
137.5°	651.7	697.4	737.6	770.9	795.5	807.3	813.7
140°	633.8	673.9	711.2	742.4	762.1	774.5	781.6
142.5°	618.8	653.3	685.6	713.2	731.4	742.4	747.4
145°	598.2	624.9	649.9	672.1	687.2	696.2	700.6
147.5°	580.4	601.8	621.3	637.8	650.8	657.5	659.1
150°	569.7	587.5	603.6	617.8	629.4	634.7	635.6
152.5°	559.0	575.4	588.6	600.7	610.1	613.3	614.2
155°	543.9	557.2	567.9	576.8	584.0	586.7	586.7
157.5°	529.0	540.2	548.8	555.4	560.8	562.4	562.4
160°	519.0	528.8	535.9	541.3	546.6	547.5	547.5
162.5°	509.7	517.4	523.8	527.7	533.1	534.0	533.2
165°	495.9	502.0	506.5	510.1	513.6	512.7	511.8
167.5°	484.1	489.1	491.8	493.6	495.9	495.7	495.0
170°	476.3	479.8	482.5	484.3	485.2	484.3	484.3
172.5°	469.8	472.0	473.9	475.0	475.9	475.0	473.6
175°	461.1	462.9	462.9	462.9	464.7	462.9	461.1
177.5°	455.9	455.9	456.6	455.9	456.6	455.2	453.8
180°	453.1	453.1	453.1	453.1	453.1	453.1	453.1

(END OF REPORT)