

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: P332805-940

Luminaire Tested: **S124DIW-S1020D470U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332805-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1020D470U940-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5778.6 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

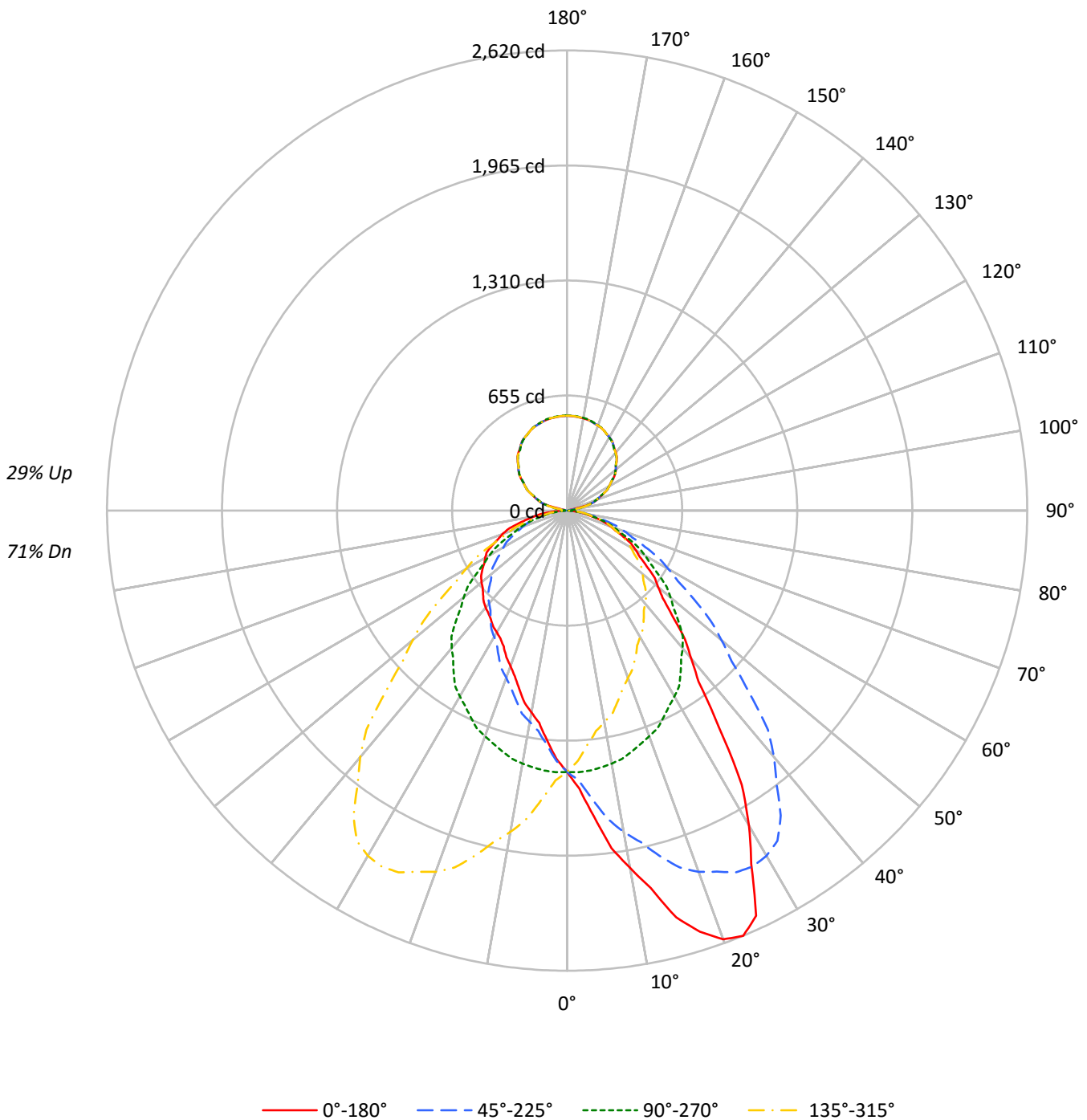
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	77	72	74	70	66	66	63	60	60	57	55	51
3	86	76	69	63	81	73	66	60	66	60	56	59	55	51	53	50	47	44
4	79	68	60	54	74	65	57	52	59	53	48	53	48	44	48	44	41	38
5	73	61	52	46	69	58	50	45	53	46	42	48	43	39	43	39	36	33
6	67	55	46	40	63	52	45	39	48	41	37	43	38	34	39	35	32	29
7	62	50	41	36	59	47	40	35	43	37	32	40	34	30	36	32	28	26
8	58	45	37	32	55	43	36	31	40	33	29	36	31	27	33	29	25	23
9	54	41	34	29	51	40	33	28	36	30	26	33	28	25	31	26	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	19

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	2.5
10°-20°	446.9	7.7
20°-30°	708.6	12.3
30°-40°	788.6	13.6
40°-50°	717.8	12.4
50°-60°	586.6	10.2
60°-70°	418.8	7.2
70°-80°	230.6	4.0
80°-90°	64.5	1.1
90°-100°	18.5	0.3
100°-110°	117.8	2.0
110°-120°	225.4	3.9
120°-130°	286.1	5.0
130°-140°	306.1	5.3
140°-150°	286.3	5.0
150°-160°	230.9	4.0
160°-170°	148.9	2.6
170°-180°	51.3	0.9
0°-30°	1300.4	22.5
0°-40°	2089.0	36.2
0°-60°	3393.4	58.7
0°-90°	4107.3	71.1
90°-120°	361.7	6.3
90°-150°	1240.3	21.5
90°-180°	1671.0	28.9
0°-180°	5778.6	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	45
90°	12	1	12	1	12	7
95°	12	22	12	22	12	9
105°	115	122	115	122	115	100
115°	229	227	229	227	229	226
125°	322	319	322	319	322	286
135°	399	396	399	396	399	307
145°	459	457	459	457	459	287
155°	500	501	500	501	500	231
165°	526	528	526	528	526	149
175°	537	540	537	540	537	51
180°	540	540	540	540	540	



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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°	13.3	14.7	14.7	15.2	16.1	16.5	16.9	16.3	18.2	18.5	20.3
90°	12.1	11.9	11.8	11.6	11.4	11.1	10.5	10.0	9.5	8.9	8.2
92.5°	11.1	11.1	11.1	11.1	11.0	10.7	10.2	9.6	9.1	8.6	7.8
95°	11.7	11.6	11.5	11.4	11.3	11.1	10.5	10.0	9.5	8.9	8.8
97.5°	11.3	11.2	11.1	11.1	11.0	10.9	10.8	10.8	10.7	10.7	20.7
100°	11.3	11.2	11.1	11.1	11.0	11.7	13.2	14.7	16.2	17.7	30.1
102.5°	11.7	11.6	11.6	11.6	11.6	19.8	36.3	52.7	69.2	85.7	87.3
105°	115.2	118.4	121.6	124.8	128.1	129.3	128.5	127.7	126.9	126.1	125.6
107.5°	160.5	160.2	159.8	159.5	159.2	158.8	158.4	158.0	157.6	157.2	156.6
110°	180.2	179.9	179.7	179.4	179.1	179.0	178.8	178.6	178.4	178.3	177.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	199.9	199.7	199.3	198.9	198.6	198.4	198.5	198.5	198.6	198.6	198.3
115°	228.7	228.7	228.7	228.7	228.7	228.6	228.5	228.3	228.1	227.9	228.0
117.5°	258.0	258.1	258.1	258.1	258.2	258.2	258.2	258.2	258.2	258.3	258.2
120°	276.4	276.6	276.8	277.0	277.1	277.1	277.0	276.8	276.6	276.4	276.5
122.5°	294.5	294.7	294.9	295.1	295.2	295.2	295.2	295.1	295.0	294.9	294.7
125°	321.6	321.6	321.5	321.4	321.3	321.1	320.8	320.6	320.3	320.0	320.2
127.5°	345.5	345.6	345.6	345.7	345.8	345.9	345.9	346.0	346.1	346.1	345.7
130°	361.7	361.7	361.7	361.7	361.7	361.7	361.6	361.5	361.4	361.3	361.1
132.5°	376.6	376.7	376.7	376.7	376.8	376.8	376.7	376.7	376.6	376.5	376.1
135°	398.9	398.7	398.5	398.3	398.1	398.0	397.8	397.6	397.4	397.3	396.9
137.5°	417.9	418.0	418.0	418.1	418.1	418.1	417.9	417.7	417.5	417.3	416.9
140°	431.2	431.1	431.1	431.0	430.9	430.7	430.4	430.2	429.9	429.6	429.4
142.5°	442.2	442.2	442.2	442.1	442.1	442.0	441.8	441.6	441.4	441.2	441.1
145°	459.1	458.9	458.7	458.5	458.3	458.3	458.2	458.1	458.0	457.9	457.9
147.5°	473.1	473.0	472.9	472.8	472.7	472.6	472.5	472.5	472.4	472.3	472.4
150°	482.1	482.1	482.0	481.9	481.8	481.7	481.7	481.7	481.7	481.7	481.8
152.5°	489.9	489.9	490.0	490.1	490.1	490.1	489.9	489.7	489.6	489.5	489.6
155°	500.3	500.6	500.9	501.1	501.4	501.3	501.0	500.6	500.2	499.9	500.2
157.5°	509.1	509.5	510.0	510.4	510.9	510.9	510.4	510.0	509.5	509.1	509.3
160°	514.9	515.4	515.9	516.5	517.0	517.0	516.5	515.9	515.4	514.9	515.0
162.5°	519.4	520.0	520.6	521.2	521.8	521.8	521.3	520.8	520.2	519.7	519.8
165°	525.8	526.6	527.4	528.2	529.0	529.1	528.3	527.6	526.9	526.2	526.2
167.5°	530.6	531.5	532.4	533.2	534.1	534.2	533.4	532.6	531.8	531.0	531.1
170°	533.4	534.3	535.2	536.1	537.1	537.2	536.4	535.7	534.9	534.2	534.1
172.5°	535.0	536.0	537.0	538.0	539.0	539.0	538.3	537.6	536.9	536.2	536.1
175°	537.1	538.1	539.2	540.3	541.4	541.5	540.7	539.9	539.1	538.3	538.2
177.5°	538.4	539.2	540.1	541.0	541.8	542.0	541.4	540.8	540.2	539.7	539.5
180°	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3



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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°	20.2	20.6	20.0	17.8	16.1	14.4	13.7	13.1	13.7	14.4	15.2
90°	7.5	6.8	6.0	5.2	4.2	3.2	2.2	1.2	2.2	3.2	4.2
92.5°	7.1	6.4	5.7	5.4	5.3	5.2	5.2	5.1	5.2	5.2	5.3
95°	8.7	8.6	8.6	10.0	13.1	16.1	19.2	22.2	19.2	16.1	13.1
97.5°	30.7	40.8	50.7	54.8	52.9	51.0	49.1	47.2	49.1	51.0	52.9
100°	42.5	54.9	67.3	72.8	71.2	69.6	67.9	66.3	67.9	69.6	71.2
102.5°	88.9	90.5	92.1	92.4	91.1	90.0	88.8	87.7	88.8	90.0	91.1
105°	125.2	124.8	124.3	123.8	123.2	122.7	122.2	121.6	122.2	122.7	123.2
107.5°	156.0	155.3	154.8	154.4	154.1	153.8	153.6	153.3	153.6	153.8	154.1
110°	177.2	176.6	176.0	175.7	175.4	175.1	174.9	174.6	174.9	175.1	175.4



TEST NUMBER: P332805-940

CATALOG NUMBER: S124DIW-S1020D470U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	198.0	197.9	197.6	197.2	196.7	196.3	195.7	195.3	195.7	196.3	196.7
115°	228.1	228.2	228.3	228.2	227.9	227.7	227.4	227.1	227.4	227.7	227.9
117.5°	257.9	257.7	257.5	257.3	256.9	256.5	256.2	255.8	256.2	256.5	256.9
120°	276.6	276.7	276.8	276.6	276.3	275.9	275.5	275.2	275.5	275.9	276.3
122.5°	294.6	294.4	294.4	294.2	294.0	293.7	293.6	293.3	293.6	293.7	294.0
125°	320.4	320.6	320.7	320.7	320.3	319.9	319.6	319.2	319.6	319.9	320.3
127.5°	345.3	344.8	344.5	344.2	344.1	344.0	343.9	343.8	343.9	344.0	344.1
130°	360.8	360.5	360.3	360.1	360.0	359.9	359.7	359.6	359.7	359.9	360.0
132.5°	375.8	375.5	375.1	374.9	374.7	374.5	374.3	374.3	374.3	374.5	374.7
135°	396.5	396.2	395.8	395.7	395.7	395.8	395.9	396.0	395.9	395.8	395.7
137.5°	416.5	416.1	415.7	415.5	415.4	415.4	415.4	415.4	415.4	415.4	415.4
140°	429.3	429.0	428.8	428.6	428.5	428.3	428.1	427.9	428.1	428.3	428.5
142.5°	441.0	440.9	440.8	440.6	440.2	440.0	439.6	439.3	439.6	440.0	440.2
145°	457.9	457.9	457.9	457.7	457.4	457.2	456.9	456.6	456.9	457.2	457.4
147.5°	472.5	472.6	472.7	472.5	472.0	471.4	471.0	470.5	471.0	471.4	472.0
150°	481.9	482.0	482.1	482.0	481.6	481.3	480.9	480.5	480.9	481.3	481.6
152.5°	489.8	490.0	490.1	490.1	489.7	489.5	489.2	488.9	489.2	489.5	489.7
155°	500.4	500.7	501.0	501.1	501.0	500.9	500.8	500.7	500.8	500.9	501.0
157.5°	509.6	510.0	510.2	510.4	510.5	510.5	510.6	510.7	510.6	510.5	510.5
160°	515.1	515.1	515.2	515.4	515.7	515.9	516.2	516.5	516.2	515.9	515.7
162.5°	519.9	520.0	520.0	520.3	520.6	520.9	521.3	521.7	521.3	520.9	520.6
165°	526.2	526.2	526.2	526.4	526.8	527.3	527.7	528.2	527.7	527.3	526.8
167.5°	531.1	531.2	531.2	531.5	532.0	532.4	532.9	533.3	532.9	532.4	532.0
170°	534.0	534.0	533.9	534.1	534.7	535.2	535.7	536.3	535.7	535.2	534.7
172.5°	536.0	535.9	535.8	536.1	536.6	537.2	537.7	538.2	537.7	537.2	536.6
175°	538.1	538.1	538.0	538.1	538.7	539.2	539.8	540.3	539.8	539.2	538.7
177.5°	539.4	539.2	539.1	539.3	539.8	540.3	540.8	541.3	540.8	540.3	539.8
180°	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3



TEST NUMBER: P332805-940

CATALOG NUMBER: S124DIW-S1020D470U940-4F0-1E-UDD-A

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°	16.9	16.9	19.1	20.2	21.8	24.4	25.6	31.1	33.2	35.8	40.2
90°	5.2	6.0	6.8	7.5	8.2	8.9	9.5	10.0	10.5	11.1	11.4
92.5°	5.4	5.7	6.4	7.1	7.8	8.6	9.1	9.6	10.2	10.7	11.0
95°	10.0	8.6	8.6	8.7	8.8	8.9	9.5	10.0	10.5	11.1	11.3
97.5°	54.8	50.7	40.8	30.7	20.7	10.7	10.7	10.8	10.8	10.9	11.0
100°	72.8	67.3	54.9	42.5	30.1	17.7	16.2	14.7	13.2	11.7	11.0
102.5°	92.4	92.1	90.5	88.9	87.3	85.7	69.2	52.7	36.3	19.8	11.6
105°	123.8	124.3	124.8	125.2	125.6	126.1	126.9	127.7	128.5	129.3	128.1
107.5°	154.4	154.8	155.3	156.0	156.6	157.2	157.6	158.0	158.4	158.8	159.2
110°	175.7	176.0	176.6	177.2	177.7	178.3	178.4	178.6	178.8	179.0	179.1



TEST NUMBER: P332805-940

CATALOG NUMBER: S124DIW-S1020D470U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	197.2	197.6	197.9	198.0	198.3	198.6	198.6	198.5	198.5	198.4	198.6
115°	228.2	228.3	228.2	228.1	228.0	227.9	228.1	228.3	228.5	228.6	228.7
117.5°	257.3	257.5	257.7	257.9	258.2	258.3	258.2	258.2	258.2	258.2	258.2
120°	276.6	276.8	276.7	276.6	276.5	276.4	276.6	276.8	277.0	277.1	277.1
122.5°	294.2	294.4	294.4	294.6	294.7	294.9	295.0	295.1	295.2	295.2	295.2
125°	320.7	320.7	320.6	320.4	320.2	320.0	320.3	320.6	320.8	321.1	321.3
127.5°	344.2	344.5	344.8	345.3	345.7	346.1	346.1	346.0	345.9	345.9	345.8
130°	360.1	360.3	360.5	360.8	361.1	361.3	361.4	361.5	361.6	361.7	361.7
132.5°	374.9	375.1	375.5	375.8	376.1	376.5	376.6	376.7	376.7	376.8	376.8
135°	395.7	395.8	396.2	396.5	396.9	397.3	397.4	397.6	397.8	398.0	398.1
137.5°	415.5	415.7	416.1	416.5	416.9	417.3	417.5	417.7	417.9	418.1	418.1
140°	428.6	428.8	429.0	429.3	429.4	429.6	429.9	430.2	430.4	430.7	430.9
142.5°	440.6	440.8	440.9	441.0	441.1	441.2	441.4	441.6	441.8	442.0	442.1
145°	457.7	457.9	457.9	457.9	457.9	457.9	458.0	458.1	458.2	458.3	458.3
147.5°	472.5	472.7	472.6	472.5	472.4	472.3	472.4	472.5	472.5	472.6	472.7
150°	482.0	482.1	482.0	481.9	481.8	481.7	481.7	481.7	481.7	481.7	481.8
152.5°	490.1	490.1	490.0	489.8	489.6	489.5	489.6	489.7	489.9	490.1	490.1
155°	501.1	501.0	500.7	500.4	500.2	499.9	500.2	500.6	501.0	501.3	501.4
157.5°	510.4	510.2	510.0	509.6	509.3	509.1	509.5	510.0	510.4	510.9	510.9
160°	515.4	515.2	515.1	515.1	515.0	514.9	515.4	515.9	516.5	517.0	517.0
162.5°	520.3	520.0	520.0	519.9	519.8	519.7	520.2	520.8	521.3	521.8	521.8
165°	526.4	526.2	526.2	526.2	526.2	526.2	526.9	527.6	528.3	529.1	529.0
167.5°	531.5	531.2	531.2	531.1	531.1	531.0	531.8	532.6	533.4	534.2	534.1
170°	534.1	533.9	534.0	534.0	534.1	534.2	534.9	535.7	536.4	537.2	537.1
172.5°	536.1	535.8	535.9	536.0	536.1	536.2	536.9	537.6	538.3	539.0	539.0
175°	538.1	538.0	538.1	538.1	538.2	538.3	539.1	539.9	540.7	541.5	541.4
177.5°	539.3	539.1	539.2	539.4	539.5	539.7	540.2	540.8	541.4	542.0	541.8
180°	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3



TEST NUMBER: P332805-940

CATALOG NUMBER: S124DIW-S1020D470U940-4F0-1E-UDD-A

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°	41.7	42.3	43.8	44.9	43.8	42.3	41.7	40.2	35.8	33.2	31.1
90°	11.6	11.8	11.9	12.1	11.9	11.8	11.6	11.4	11.1	10.5	10.0
92.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.0	10.7	10.2	9.6
95°	11.4	11.5	11.6	11.7	11.6	11.5	11.4	11.3	11.1	10.5	10.0
97.5°	11.1	11.1	11.2	11.3	11.2	11.1	11.1	11.0	10.9	10.8	10.8
100°	11.1	11.1	11.2	11.3	11.2	11.1	11.1	11.0	11.7	13.2	14.7
102.5°	11.6	11.6	11.6	11.7	11.6	11.6	11.6	11.6	19.8	36.3	52.7
105°	124.8	121.6	118.4	115.2	118.4	121.6	124.8	128.1	129.3	128.5	127.7
107.5°	159.5	159.8	160.2	160.5	160.2	159.8	159.5	159.2	158.8	158.4	158.0
110°	179.4	179.7	179.9	180.2	179.9	179.7	179.4	179.1	179.0	178.8	178.6



TEST NUMBER: P332805-940

CATALOG NUMBER: S124DIW-S1020D470U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	198.9	199.3	199.7	199.9	199.7	199.3	198.9	198.6	198.4	198.5	198.5
115°	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.6	228.5	228.3
117.5°	258.1	258.1	258.1	258.0	258.1	258.1	258.1	258.2	258.2	258.2	258.2
120°	277.0	276.8	276.6	276.4	276.6	276.8	277.0	277.1	277.1	277.0	276.8
122.5°	295.1	294.9	294.7	294.5	294.7	294.9	295.1	295.2	295.2	295.2	295.1
125°	321.4	321.5	321.6	321.6	321.6	321.5	321.4	321.3	321.1	320.8	320.6
127.5°	345.7	345.6	345.6	345.5	345.6	345.6	345.7	345.8	345.9	345.9	346.0
130°	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.6	361.5
132.5°	376.7	376.7	376.7	376.6	376.7	376.7	376.7	376.8	376.8	376.7	376.7
135°	398.3	398.5	398.7	398.9	398.7	398.5	398.3	398.1	398.0	397.8	397.6
137.5°	418.1	418.0	418.0	417.9	418.0	418.0	418.1	418.1	418.1	417.9	417.7
140°	431.0	431.1	431.1	431.2	431.1	431.1	431.0	430.9	430.7	430.4	430.2
142.5°	442.1	442.2	442.2	442.2	442.2	442.2	442.1	442.1	442.0	441.8	441.6
145°	458.5	458.7	458.9	459.1	458.9	458.7	458.5	458.3	458.3	458.2	458.1
147.5°	472.8	472.9	473.0	473.1	473.0	472.9	472.8	472.7	472.6	472.5	472.5
150°	481.9	482.0	482.1	482.1	482.1	482.0	481.9	481.8	481.7	481.7	481.7
152.5°	490.1	490.0	489.9	489.9	489.9	490.0	490.1	490.1	490.1	489.9	489.7
155°	501.1	500.9	500.6	500.3	500.6	500.9	501.1	501.4	501.3	501.0	500.6
157.5°	510.4	510.0	509.5	509.1	509.5	510.0	510.4	510.9	510.9	510.4	510.0
160°	516.5	515.9	515.4	514.9	515.4	515.9	516.5	517.0	517.0	516.5	515.9
162.5°	521.2	520.6	520.0	519.4	520.0	520.6	521.2	521.8	521.8	521.3	520.8
165°	528.2	527.4	526.6	525.8	526.6	527.4	528.2	529.0	529.1	528.3	527.6
167.5°	533.2	532.4	531.5	530.6	531.5	532.4	533.2	534.1	534.2	533.4	532.6
170°	536.1	535.2	534.3	533.4	534.3	535.2	536.1	537.1	537.2	536.4	535.7
172.5°	538.0	537.0	536.0	535.0	536.0	537.0	538.0	539.0	539.0	538.3	537.6
175°	540.3	539.2	538.1	537.1	538.1	539.2	540.3	541.4	541.5	540.7	539.9
177.5°	541.0	540.1	539.2	538.4	539.2	540.1	541.0	541.8	542.0	541.4	540.8
180°	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3



TEST NUMBER: P332805-940

CATALOG NUMBER: S124DIW-S1020D470U940-4F0-1E-UDD-A

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°	25.6	24.4	21.8	20.2	19.1	16.9	16.9	15.2	14.4	13.7	13.1
90°	9.5	8.9	8.2	7.5	6.8	6.0	5.2	4.2	3.2	2.2	1.2
92.5°	9.1	8.6	7.8	7.1	6.4	5.7	5.4	5.3	5.2	5.2	5.1
95°	9.5	8.9	8.8	8.7	8.6	8.6	10.0	13.1	16.1	19.2	22.2
97.5°	10.7	10.7	20.7	30.7	40.8	50.7	54.8	52.9	51.0	49.1	47.2
100°	16.2	17.7	30.1	42.5	54.9	67.3	72.8	71.2	69.6	67.9	66.3
102.5°	69.2	85.7	87.3	88.9	90.5	92.1	92.4	91.1	90.0	88.8	87.7
105°	126.9	126.1	125.6	125.2	124.8	124.3	123.8	123.2	122.7	122.2	121.6
107.5°	157.6	157.2	156.6	156.0	155.3	154.8	154.4	154.1	153.8	153.6	153.3
110°	178.4	178.3	177.7	177.2	176.6	176.0	175.7	175.4	175.1	174.9	174.6



TEST NUMBER: P332805-940

CATALOG NUMBER: S124DIW-S1020D470U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	198.6	198.6	198.3	198.0	197.9	197.6	197.2	196.7	196.3	195.7	195.3
115°	228.1	227.9	228.0	228.1	228.2	228.3	228.2	227.9	227.7	227.4	227.1
117.5°	258.2	258.3	258.2	257.9	257.7	257.5	257.3	256.9	256.5	256.2	255.8
120°	276.6	276.4	276.5	276.6	276.7	276.8	276.6	276.3	275.9	275.5	275.2
122.5°	295.0	294.9	294.7	294.6	294.4	294.4	294.2	294.0	293.7	293.6	293.3
125°	320.3	320.0	320.2	320.4	320.6	320.7	320.7	320.3	319.9	319.6	319.2
127.5°	346.1	346.1	345.7	345.3	344.8	344.5	344.2	344.1	344.0	343.9	343.8
130°	361.4	361.3	361.1	360.8	360.5	360.3	360.1	360.0	359.9	359.7	359.6
132.5°	376.6	376.5	376.1	375.8	375.5	375.1	374.9	374.7	374.5	374.3	374.3
135°	397.4	397.3	396.9	396.5	396.2	395.8	395.7	395.7	395.8	395.9	396.0
137.5°	417.5	417.3	416.9	416.5	416.1	415.7	415.5	415.4	415.4	415.4	415.4
140°	429.9	429.6	429.4	429.3	429.0	428.8	428.6	428.5	428.3	428.1	427.9
142.5°	441.4	441.2	441.1	441.0	440.9	440.8	440.6	440.2	440.0	439.6	439.3
145°	458.0	457.9	457.9	457.9	457.9	457.9	457.7	457.4	457.2	456.9	456.6
147.5°	472.4	472.3	472.4	472.5	472.6	472.7	472.5	472.0	471.4	471.0	470.5
150°	481.7	481.7	481.8	481.9	482.0	482.1	482.0	481.6	481.3	480.9	480.5
152.5°	489.6	489.5	489.6	489.8	490.0	490.1	490.1	489.7	489.5	489.2	488.9
155°	500.2	499.9	500.2	500.4	500.7	501.0	501.1	501.0	500.9	500.8	500.7
157.5°	509.5	509.1	509.3	509.6	510.0	510.2	510.4	510.5	510.5	510.6	510.7
160°	515.4	514.9	515.0	515.1	515.1	515.2	515.4	515.7	515.9	516.2	516.5
162.5°	520.2	519.7	519.8	519.9	520.0	520.0	520.3	520.6	520.9	521.3	521.7
165°	526.9	526.2	526.2	526.2	526.2	526.2	526.4	526.8	527.3	527.7	528.2
167.5°	531.8	531.0	531.1	531.1	531.2	531.2	531.5	532.0	532.4	532.9	533.3
170°	534.9	534.2	534.1	534.0	534.0	533.9	534.1	534.7	535.2	535.7	536.3
172.5°	536.9	536.2	536.1	536.0	535.9	535.8	536.1	536.6	537.2	537.7	538.2
175°	539.1	538.3	538.2	538.1	538.1	538.0	538.1	538.7	539.2	539.8	540.3
177.5°	540.2	539.7	539.5	539.4	539.2	539.1	539.3	539.8	540.3	540.8	541.3
180°	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3



TEST NUMBER: P332805-940

CATALOG NUMBER: S124DIW-S1020D470U940-4F0-1E-UDD-A

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°	13.7	14.4	16.1	17.8	20.0	20.6	20.2	20.3	18.5	18.2	16.3
90°	2.2	3.2	4.2	5.2	6.0	6.8	7.5	8.2	8.9	9.5	10.0
92.5°	5.2	5.2	5.3	5.4	5.7	6.4	7.1	7.8	8.6	9.1	9.6
95°	19.2	16.1	13.1	10.0	8.6	8.6	8.7	8.8	8.9	9.5	10.0
97.5°	49.1	51.0	52.9	54.8	50.7	40.8	30.7	20.7	10.7	10.7	10.8
100°	67.9	69.6	71.2	72.8	67.3	54.9	42.5	30.1	17.7	16.2	14.7
102.5°	88.8	90.0	91.1	92.4	92.1	90.5	88.9	87.3	85.7	69.2	52.7
105°	122.2	122.7	123.2	123.8	124.3	124.8	125.2	125.6	126.1	126.9	127.7
107.5°	153.6	153.8	154.1	154.4	154.8	155.3	156.0	156.6	157.2	157.6	158.0
110°	174.9	175.1	175.4	175.7	176.0	176.6	177.2	177.7	178.3	178.4	178.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	195.7	196.3	196.7	197.2	197.6	197.9	198.0	198.3	198.6	198.6	198.5
115°	227.4	227.7	227.9	228.2	228.3	228.2	228.1	228.0	227.9	228.1	228.3
117.5°	256.2	256.5	256.9	257.3	257.5	257.7	257.9	258.2	258.3	258.2	258.2
120°	275.5	275.9	276.3	276.6	276.8	276.7	276.6	276.5	276.4	276.6	276.8
122.5°	293.6	293.7	294.0	294.2	294.4	294.4	294.6	294.7	294.9	295.0	295.1
125°	319.6	319.9	320.3	320.7	320.7	320.6	320.4	320.2	320.0	320.3	320.6
127.5°	343.9	344.0	344.1	344.2	344.5	344.8	345.3	345.7	346.1	346.1	346.0
130°	359.7	359.9	360.0	360.1	360.3	360.5	360.8	361.1	361.3	361.4	361.5
132.5°	374.3	374.5	374.7	374.9	375.1	375.5	375.8	376.1	376.5	376.6	376.7
135°	395.9	395.8	395.7	395.7	395.8	396.2	396.5	396.9	397.3	397.4	397.6
137.5°	415.4	415.4	415.4	415.5	415.7	416.1	416.5	416.9	417.3	417.5	417.7
140°	428.1	428.3	428.5	428.6	428.8	429.0	429.3	429.4	429.6	429.9	430.2
142.5°	439.6	440.0	440.2	440.6	440.8	440.9	441.0	441.1	441.2	441.4	441.6
145°	456.9	457.2	457.4	457.7	457.9	457.9	457.9	457.9	457.9	458.0	458.1
147.5°	471.0	471.4	472.0	472.5	472.7	472.6	472.5	472.4	472.3	472.4	472.5
150°	480.9	481.3	481.6	482.0	482.1	482.0	481.9	481.8	481.7	481.7	481.7
152.5°	489.2	489.5	489.7	490.1	490.1	490.0	489.8	489.6	489.5	489.6	489.7
155°	500.8	500.9	501.0	501.1	501.0	500.7	500.4	500.2	499.9	500.2	500.6
157.5°	510.6	510.5	510.5	510.4	510.2	510.0	509.6	509.3	509.1	509.5	510.0
160°	516.2	515.9	515.7	515.4	515.2	515.1	515.1	515.0	514.9	515.4	515.9
162.5°	521.3	520.9	520.6	520.3	520.0	520.0	519.9	519.8	519.7	520.2	520.8
165°	527.7	527.3	526.8	526.4	526.2	526.2	526.2	526.2	526.2	526.9	527.6
167.5°	532.9	532.4	532.0	531.5	531.2	531.2	531.1	531.1	531.0	531.8	532.6
170°	535.7	535.2	534.7	534.1	533.9	534.0	534.0	534.1	534.2	534.9	535.7
172.5°	537.7	537.2	536.6	536.1	535.8	535.9	536.0	536.1	536.2	536.9	537.6
175°	539.8	539.2	538.7	538.1	538.0	538.1	538.1	538.2	538.3	539.1	539.9
177.5°	540.8	540.3	539.8	539.3	539.1	539.2	539.4	539.5	539.7	540.2	540.8
180°	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3	540.3



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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°	16.9	16.5	16.1	15.2	14.7	14.7	13.3
90°	10.5	11.1	11.4	11.6	11.8	11.9	12.1
92.5°	10.2	10.7	11.0	11.1	11.1	11.1	11.1
95°	10.5	11.1	11.3	11.4	11.5	11.6	11.7
97.5°	10.8	10.9	11.0	11.1	11.1	11.2	11.3
100°	13.2	11.7	11.0	11.1	11.1	11.2	11.3
102.5°	36.3	19.8	11.6	11.6	11.6	11.6	11.7
105°	128.5	129.3	128.1	124.8	121.6	118.4	115.2
107.5°	158.4	158.8	159.2	159.5	159.8	160.2	160.5
110°	178.8	179.0	179.1	179.4	179.7	179.9	180.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	198.5	198.4	198.6	198.9	199.3	199.7	199.9
115°	228.5	228.6	228.7	228.7	228.7	228.7	228.7
117.5°	258.2	258.2	258.2	258.1	258.1	258.1	258.0
120°	277.0	277.1	277.1	277.0	276.8	276.6	276.4
122.5°	295.2	295.2	295.2	295.1	294.9	294.7	294.5
125°	320.8	321.1	321.3	321.4	321.5	321.6	321.6
127.5°	345.9	345.9	345.8	345.7	345.6	345.6	345.5
130°	361.6	361.7	361.7	361.7	361.7	361.7	361.7
132.5°	376.7	376.8	376.8	376.7	376.7	376.7	376.6
135°	397.8	398.0	398.1	398.3	398.5	398.7	398.9
137.5°	417.9	418.1	418.1	418.1	418.0	418.0	417.9
140°	430.4	430.7	430.9	431.0	431.1	431.1	431.2
142.5°	441.8	442.0	442.1	442.1	442.2	442.2	442.2
145°	458.2	458.3	458.3	458.5	458.7	458.9	459.1
147.5°	472.5	472.6	472.7	472.8	472.9	473.0	473.1
150°	481.7	481.7	481.8	481.9	482.0	482.1	482.1
152.5°	489.9	490.1	490.1	490.1	490.0	489.9	489.9
155°	501.0	501.3	501.4	501.1	500.9	500.6	500.3
157.5°	510.4	510.9	510.9	510.4	510.0	509.5	509.1
160°	516.5	517.0	517.0	516.5	515.9	515.4	514.9
162.5°	521.3	521.8	521.8	521.2	520.6	520.0	519.4
165°	528.3	529.1	529.0	528.2	527.4	526.6	525.8
167.5°	533.4	534.2	534.1	533.2	532.4	531.5	530.6
170°	536.4	537.2	537.1	536.1	535.2	534.3	533.4
172.5°	538.3	539.0	539.0	538.0	537.0	536.0	535.0
175°	540.7	541.5	541.4	540.3	539.2	538.1	537.1
177.5°	541.4	542.0	541.8	541.0	540.1	539.2	538.4
180°	540.3	540.3	540.3	540.3	540.3	540.3	540.3

(END OF REPORT)