

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: P332939

Luminaire Tested: **S124RDIP-S795D810U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332939  
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: S124RDIP-S795D810U835-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

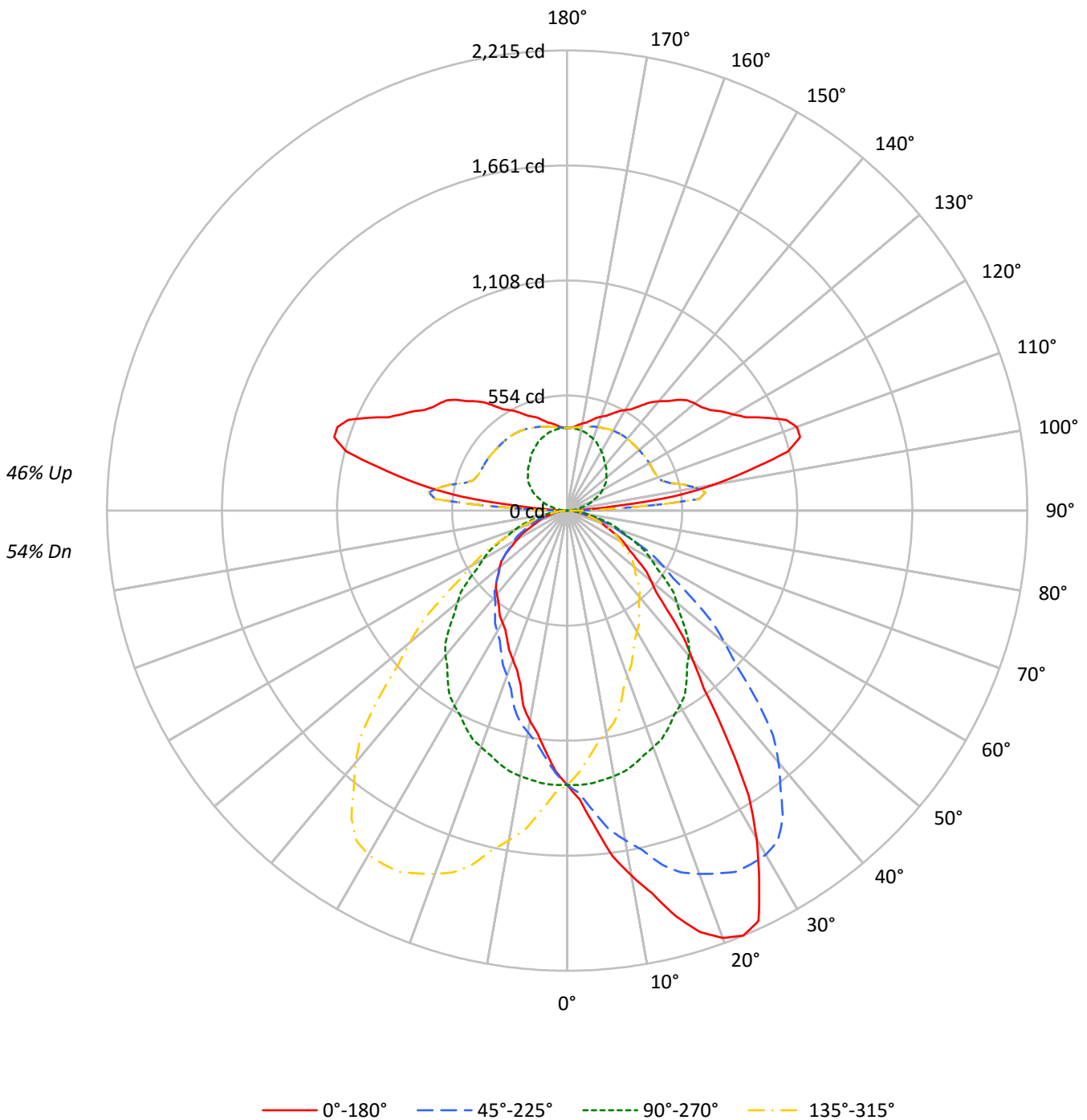
Lumens per Lamp: N/A  
Luminaire Lumens: 6233.5 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 45.9  
Input Voltage (V): 120  
Input Current (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	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	73	68	67	63	60	57	54	52	47	46	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	42	48	42	38	41	37	33	35	31	29	26
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	48	40	34	55	45	38	33	39	34	29	34	29	26	29	26	23	20
8	56	43	36	31	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	23	19	17	15

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

	0°	90°	180°	270°
0°	10656	10656	10656	10656
5°	12361	10689	9447	10689
10°	14623	10642	8432	10642
15°	16891	10543	7245	10543
20°	18806	10408	6552	10408
25°	19414	10276	6083	10276
30°	16995	10113	5800	10113
35°	13230	9875	5629	9875
40°	9921	9601	5538	9601
45°	7833	9162	5489	9162
50°	6612	8657	5330	8657
55°	5764	8099	5046	8099
60°	5186	7522	4466	7522
65°	4571	6898	3840	6898
70°	4116	6253	3465	6253
75°	3450	5540	2954	5540
80°	2920	4723	2771	4723
85°	2464	3696	2464	3696



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	2.1
10°-20°	385.8	6.2
20°-30°	603.4	9.7
30°-40°	670.8	10.8
40°-50°	595.2	9.5
50°-60°	463.8	7.4
60°-70°	303.6	4.9
70°-80°	149.3	2.4
80°-90°	39.0	0.6
90°-100°	287.5	4.6
100°-110°	598.3	9.6
110°-120°	535.9	8.6
120°-130°	450.8	7.2
130°-140°	375.9	6.0
140°-150°	287.1	4.6
150°-160°	201.8	3.2
160°-170°	118.7	1.9
170°-180°	38.6	0.6
0°-30°	1117.1	17.9
0°-40°	1787.9	28.7
0°-60°	2846.9	45.7
0°-90°	3338.9	53.6
90°-120°	1421.6	22.8
90°-150°	2535.4	40.7
90°-180°	2895.0	46.4
0°-180°	6233.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1320	1320	1320	1320	1320	
5°	1525	1319	1166	1319	1525	154
15°	2021	1262	867	1262	2021	575
25°	2180	1154	683	1154	2180	967
35°	1342	1002	571	1002	1342	841
45°	686	802	481	802	686	543
55°	410	575	358	575	410	372
65°	239	361	201	361	239	241
75°	111	178	95	178	111	122
85°	27	40	27	40	27	30
90°	16	1	16	1	16	14
95°	191	26	191	26	191	296
105°	1100	92	1100	92	1100	1088
115°	1056	161	1056	161	1056	1049
125°	843	224	843	224	843	766
135°	754	267	754	267	754	582
145°	615	307	615	307	615	390
155°	515	350	515	350	515	240
165°	450	381	450	381	450	129
175°	405	397	405	397	405	39
180°	398	398	398	398	398	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1392.3	1396.2	1392.3	1391.9	1387.7	1386.4	1384.7	1379.2	1368.9	1363.0	1364.3
5°	1525.3	1538.6	1531.2	1530.1	1518.4	1506.7	1499.2	1482.2	1464.1	1451.9	1441.8
7.5°	1679.1	1686.8	1682.1	1674.6	1655.7	1645.0	1627.7	1605.3	1572.9	1548.1	1525.4
10°	1783.8	1790.2	1788.0	1774.2	1760.4	1732.2	1716.2	1684.9	1643.9	1611.5	1581.2
12.5°	1886.7	1893.6	1874.8	1875.5	1849.3	1827.1	1801.8	1762.3	1715.0	1673.2	1635.2
15°	2021.0	2012.5	2012.5	2001.8	1972.6	1941.7	1915.7	1874.2	1814.6	1764.6	1712.0
17.5°	2126.1	2129.0	2124.7	2099.6	2076.6	2044.7	1996.9	1948.5	1893.2	1826.1	1772.3
20°	2189.0	2189.0	2184.3	2167.2	2137.5	2103.4	2051.8	1999.2	1929.0	1861.4	1800.8
22.5°	2214.6	2216.3	2210.6	2196.6	2169.8	2136.6	2092.7	2039.2	1966.8	1890.8	1815.7
25°	2179.5	2189.6	2190.6	2186.9	2178.9	2158.7	2121.0	2066.2	2001.3	1918.9	1838.0
27.5°	2001.0	2013.7	2024.9	2043.3	2067.8	2080.5	2082.2	2054.4	1997.8	1918.4	1837.1
30°	1823.1	1833.8	1868.3	1913.5	1948.7	1980.6	2008.2	2015.7	1983.8	1912.5	1826.9
32.5°	1625.7	1640.2	1674.8	1723.4	1781.9	1835.9	1898.0	1929.7	1928.9	1886.1	1806.9
35°	1342.4	1353.0	1384.9	1436.0	1506.2	1586.5	1684.9	1761.4	1813.6	1809.8	1761.4
37.5°	1082.6	1094.6	1126.9	1169.2	1237.3	1336.7	1431.9	1537.4	1633.8	1687.9	1671.8
40°	941.4	941.9	973.3	1016.9	1080.7	1167.4	1271.1	1388.1	1495.5	1583.3	1600.3
42.5°	829.9	830.0	850.7	897.7	943.7	1025.3	1124.3	1240.5	1366.2	1467.6	1512.7
45°	686.1	690.9	707.9	736.1	772.2	841.4	920.6	1028.6	1169.5	1289.7	1364.7
47.5°	581.0	588.0	598.8	621.8	650.6	696.7	762.2	859.2	973.9	1106.1	1212.8
50°	526.5	527.6	541.4	554.2	579.2	615.9	673.3	754.1	859.4	986.6	1105.2
52.5°	479.7	479.5	487.8	504.0	524.3	552.9	599.3	672.9	766.3	880.2	1002.6
55°	409.5	412.2	418.6	431.3	446.7	467.0	503.6	559.0	632.4	729.7	840.8
57.5°	356.1	357.5	362.5	367.9	382.1	396.8	424.3	462.7	524.6	604.3	707.9
60°	321.2	321.8	323.4	331.3	342.5	356.3	374.9	407.4	459.5	532.4	614.3
62.5°	287.2	288.1	290.6	296.4	305.1	314.6	334.1	360.2	403.3	465.6	539.4
65°	239.3	239.9	243.6	245.7	252.6	261.1	275.5	293.0	322.8	374.9	430.8
67.5°	200.0	200.0	200.2	203.1	207.8	213.5	222.1	236.1	258.6	290.6	339.8
70°	174.4	174.4	175.5	177.1	179.8	184.5	189.3	200.0	216.5	242.5	280.3
72.5°	150.6	151.0	152.1	152.4	153.8	157.7	161.3	168.1	180.3	200.0	230.5
75°	110.6	112.2	114.9	117.0	119.7	119.1	122.9	127.1	130.8	142.5	160.1
77.5°	82.3	81.5	81.8	83.6	83.9	84.5	87.1	90.4	93.2	98.7	105.0
80°	62.8	62.8	64.4	64.9	64.4	64.9	67.5	69.1	70.2	72.3	78.2
82.5°	47.4	48.3	47.8	48.3	48.6	49.1	51.4	51.7	52.8	53.6	56.1
85°	26.6	27.1	27.7	26.6	26.6	26.6	27.7	28.2	29.3	28.7	29.8
87.5°	12.6	12.2	12.8	12.6	12.9	12.5	12.8	13.5	12.4	13.0	12.7
90°	16.4	16.4	17.2	16.4	15.6	15.6	14.9	14.1	13.3	14.1	12.5
92.5°	60.2	60.2	62.9	67.1	76.3	92.0	115.6	153.6	206.6	248.0	217.1
95°	190.8	201.0	215.0	239.3	277.6	353.4	458.2	579.4	655.3	637.3	480.9
97.5°	510.0	526.2	549.7	596.8	652.9	734.5	811.0	856.0	823.2	671.2	450.1
100°	717.0	723.3	746.7	794.4	862.5	920.3	958.6	943.0	828.8	628.7	408.2
102.5°	897.2	902.2	926.9	961.5	1003.2	1027.3	1016.2	938.6	781.9	575.5	380.0
105°	1100.2	1104.9	1115.8	1122.1	1120.5	1088.4	1011.0	875.8	696.7	512.9	355.8
107.5°	1175.5	1173.5	1165.7	1147.9	1109.2	1039.5	930.5	786.5	627.9	477.9	351.4
110°	1176.8	1169.8	1155.7	1122.8	1067.3	981.3	867.9	732.7	593.5	466.0	352.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1139.9	1128.5	1108.8	1069.0	1006.0	920.0	812.9	693.3	574.1	460.4	356.4
115°	1056.4	1050.1	1025.1	978.2	916.4	841.3	749.9	653.7	555.9	457.4	363.6
117.5°	971.8	966.9	941.6	902.2	849.5	785.8	713.9	634.3	547.8	456.6	371.3
120°	924.2	915.6	895.3	860.9	816.3	760.8	698.3	625.5	543.4	456.6	376.9
122.5°	886.7	878.1	860.9	831.5	793.8	745.2	688.2	618.0	538.4	456.0	382.5
125°	842.9	838.2	823.4	800.7	769.4	726.4	672.5	605.2	530.1	455.1	391.0
127.5°	817.3	812.6	800.1	779.9	748.5	707.6	653.8	589.6	519.0	453.4	397.7
130°	802.3	797.6	785.1	765.5	733.4	692.0	638.8	577.1	512.2	452.7	402.7
132.5°	785.4	780.7	768.8	746.7	715.3	673.9	621.9	563.9	505.9	452.1	407.1
135°	753.8	749.1	736.6	714.7	683.4	644.3	596.6	545.8	496.5	451.2	413.6
137.5°	714.7	709.0	698.7	677.1	647.9	612.6	572.4	529.4	488.4	451.0	417.5
140°	686.5	680.3	669.3	652.1	624.8	591.9	556.7	520.0	484.0	450.4	420.7
142.5°	656.5	652.1	642.4	626.5	602.2	573.8	543.6	511.2	480.3	450.4	423.2
145°	615.4	611.5	603.6	590.4	570.8	548.9	525.5	498.9	473.8	448.8	424.6
147.5°	578.9	577.5	571.6	560.2	545.8	528.6	509.8	488.7	468.1	446.0	425.4
150°	558.3	557.5	552.8	542.7	530.1	516.1	500.4	482.4	463.7	444.1	425.4
152.5°	539.5	538.7	535.9	527.6	517.0	505.4	491.0	475.6	458.7	441.0	424.1
155°	515.3	515.3	512.9	506.7	498.9	489.5	477.8	465.2	451.2	436.3	422.2
157.5°	494.0	494.0	492.6	487.9	482.0	474.5	464.6	454.1	443.5	431.5	420.2
160°	480.9	480.9	480.1	475.4	470.7	464.5	455.9	447.3	437.9	427.7	418.3
162.5°	468.4	469.0	468.2	463.5	460.1	454.5	447.7	440.4	432.9	424.0	416.5
165°	449.6	450.4	451.2	448.0	444.9	441.0	435.5	430.8	424.6	418.3	412.9
167.5°	434.7	435.4	435.5	433.5	431.9	429.6	425.2	421.6	417.1	412.7	409.1
170°	425.4	425.4	426.1	425.4	423.8	421.5	418.3	416.0	412.1	408.9	406.6
172.5°	416.0	417.2	418.0	417.2	416.3	414.6	412.7	411.0	407.7	405.2	404.1
175°	405.0	406.6	408.2	406.6	406.6	406.6	405.0	404.3	402.7	401.1	401.1
177.5°	398.6	399.9	401.1	400.5	401.1	400.5	400.5	399.9	399.2	398.6	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1360.0	1354.1	1351.1	1344.3	1336.2	1331.9	1328.1	1322.6	1315.3	1307.7	1302.1
5°	1429.0	1416.3	1400.3	1381.2	1364.2	1347.7	1333.3	1319.0	1302.5	1285.4	1268.4
7.5°	1499.9	1474.8	1447.7	1416.3	1385.8	1358.0	1332.5	1308.0	1280.3	1255.6	1233.0
10°	1549.2	1515.2	1477.4	1437.6	1397.7	1363.1	1329.1	1298.2	1264.2	1233.9	1208.3
12.5°	1589.2	1549.2	1503.8	1454.1	1406.2	1364.4	1325.2	1285.0	1246.3	1213.4	1179.4
15°	1655.6	1600.8	1539.7	1480.1	1417.9	1361.0	1308.3	1261.5	1217.4	1171.1	1138.7
17.5°	1701.2	1636.2	1561.9	1490.3	1416.8	1349.7	1289.0	1233.2	1182.3	1135.0	1096.4
20°	1728.5	1656.7	1574.2	1492.9	1410.4	1338.6	1273.2	1211.5	1158.9	1107.8	1067.9
22.5°	1743.8	1664.3	1574.2	1489.0	1403.6	1325.9	1254.1	1189.8	1132.5	1081.4	1037.3
25°	1748.7	1663.6	1571.6	1473.7	1380.1	1297.7	1223.2	1153.6	1089.7	1038.7	991.9
27.5°	1741.9	1641.7	1547.4	1447.0	1350.4	1263.5	1185.4	1112.2	1048.3	993.5	945.5
30°	1731.7	1624.2	1523.2	1418.9	1321.1	1237.6	1155.1	1084.9	1018.5	961.6	913.2
32.5°	1709.5	1603.0	1494.2	1387.5	1288.3	1202.3	1124.1	1053.5	988.3	930.1	878.7
35°	1665.7	1557.8	1439.7	1330.1	1232.8	1143.4	1070.1	1002.0	939.8	877.5	823.3
37.5°	1608.0	1497.7	1380.2	1260.2	1162.8	1078.5	1011.1	947.2	886.5	829.7	769.6
40°	1553.5	1453.0	1331.7	1212.6	1112.6	1031.2	969.0	911.0	849.9	793.5	733.4
42.5°	1487.5	1401.9	1279.4	1159.8	1061.1	982.7	924.8	868.1	812.4	757.8	695.1
45°	1377.5	1312.6	1197.7	1082.8	983.4	905.7	852.5	802.5	753.6	701.5	642.5
47.5°	1251.3	1207.4	1108.2	990.6	898.6	828.7	777.3	736.5	695.1	643.0	591.2
50°	1163.7	1135.5	1039.7	932.3	844.6	780.2	727.6	689.3	654.7	604.7	558.4
52.5°	1070.1	1055.1	974.2	871.5	786.7	723.6	678.6	644.2	609.2	567.7	524.4
55°	927.5	935.5	866.9	778.1	698.3	645.1	604.2	575.4	545.7	510.6	477.1
57.5°	781.8	810.9	764.9	686.9	612.1	563.0	532.2	508.0	483.0	453.9	425.3
60°	694.6	719.0	693.0	624.4	559.0	513.2	484.5	465.9	440.9	414.3	392.5
62.5°	609.5	635.7	620.2	564.8	504.1	464.7	439.4	422.1	403.5	380.3	357.6
65°	502.6	519.6	512.2	473.9	430.8	397.3	373.9	361.1	344.1	327.1	306.9
67.5°	384.9	417.8	413.5	393.1	355.9	329.7	314.4	303.1	287.6	275.0	261.2
70°	316.4	346.8	346.2	329.7	309.5	285.1	274.4	264.9	251.0	238.8	227.6
72.5°	259.0	286.8	290.9	278.3	264.4	245.9	235.7	229.1	215.7	207.3	198.3
75°	181.4	201.6	206.9	206.9	200.5	190.9	181.9	177.6	168.1	160.6	155.3
77.5°	118.9	131.7	140.0	141.9	142.9	139.7	132.2	129.2	121.9	119.2	114.1
80°	84.0	92.5	102.1	105.3	108.0	106.9	103.7	101.6	94.7	92.0	89.9
82.5°	58.1	62.8	70.6	77.6	76.9	79.7	76.9	75.2	70.0	69.0	66.9
85°	30.3	30.8	31.9	36.7	39.4	40.4	41.0	39.9	38.3	38.3	34.6
87.5°	12.4	12.0	11.9	11.9	12.2	13.7	14.5	14.6	13.7	12.9	11.7
90°	10.9	10.9	6.3	6.3	5.5	4.7	2.3	0.8	2.3	4.7	5.5
92.5°	157.9	97.3	57.5	41.3	29.9	20.3	13.0	8.9	13.0	20.3	29.9
95°	294.0	165.8	97.7	64.9	46.1	36.0	28.1	25.8	28.1	36.0	46.1
97.5°	264.3	158.4	106.0	78.5	62.4	53.0	46.3	46.3	46.3	53.0	62.4
100°	248.7	160.3	114.2	89.1	74.3	64.9	59.4	59.4	59.4	64.9	74.3
102.5°	244.3	166.5	124.8	101.0	86.8	78.0	73.2	71.9	73.2	78.0	86.8
105°	246.3	181.4	143.9	121.2	107.1	97.7	93.8	91.5	93.8	97.7	107.1
107.5°	257.9	198.8	164.4	142.0	128.5	118.5	114.6	113.1	114.6	118.5	128.5
110°	266.6	211.9	177.5	156.4	142.3	132.9	129.0	127.5	129.0	132.9	142.3





TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	276.0	224.4	191.3	170.1	156.1	147.3	142.8	141.2	142.8	147.3	156.1
115°	290.9	244.0	212.7	191.6	176.7	168.9	163.4	161.1	163.4	168.9	176.7
117.5°	306.0	262.9	233.2	211.3	197.4	188.8	183.9	181.7	183.9	188.8	197.4
120°	316.7	276.0	246.3	224.4	211.1	202.5	197.0	195.5	197.0	202.5	211.1
122.5°	326.7	288.5	258.8	237.5	223.0	215.0	209.6	208.0	209.6	215.0	223.0
125°	341.7	305.7	277.6	255.7	240.8	232.2	227.5	224.4	227.5	232.2	240.8
127.5°	354.7	321.7	294.5	272.4	256.9	247.1	241.5	239.0	241.5	247.1	256.9
130°	362.8	332.3	305.7	283.1	268.2	256.5	250.2	247.1	250.2	256.5	268.2
132.5°	370.9	341.1	314.5	293.1	277.0	265.9	257.7	255.2	257.7	265.9	277.0
135°	381.6	353.4	327.6	307.3	290.9	277.6	269.8	266.6	269.8	277.6	290.9
137.5°	389.1	362.8	338.7	319.3	302.3	289.6	281.0	278.1	281.0	289.6	302.3
140°	394.1	369.1	345.6	326.8	310.4	297.1	288.5	286.2	288.5	297.1	310.4
142.5°	397.8	374.7	351.9	333.7	317.9	305.3	297.3	294.9	297.3	305.3	317.9
145°	401.9	380.8	360.5	343.3	328.4	317.5	309.6	307.3	309.6	317.5	328.4
147.5°	405.5	387.1	368.0	352.5	340.1	328.9	322.0	321.2	322.0	328.9	340.1
150°	407.4	390.2	373.0	358.1	346.4	337.0	330.8	330.0	330.8	337.0	346.4
152.5°	408.6	392.7	377.4	363.8	353.3	344.5	338.3	338.1	338.3	344.5	353.3
155°	409.7	396.4	383.1	371.4	362.8	355.0	350.3	349.5	350.3	355.0	362.8
157.5°	409.7	399.1	387.8	378.6	371.1	365.0	360.6	360.6	360.6	365.0	371.1
160°	409.7	400.3	391.0	382.4	376.1	370.6	367.5	367.5	367.5	370.6	376.1
162.5°	409.7	401.6	392.8	386.1	380.5	375.6	373.1	373.8	373.1	375.6	380.5
165°	408.2	401.9	394.9	390.2	386.3	382.4	380.8	380.8	380.8	382.4	386.3
167.5°	406.3	401.8	396.6	393.0	390.8	387.8	387.1	387.8	387.1	387.8	390.8
170°	405.0	401.1	397.2	394.9	393.3	391.0	390.2	391.0	390.2	391.0	393.3
172.5°	403.8	400.5	397.8	396.1	395.2	393.5	393.3	394.1	393.3	393.5	395.2
175°	401.9	399.6	398.0	398.0	397.2	396.4	396.4	397.2	396.4	396.4	397.2
177.5°	399.9	398.6	398.0	398.0	398.0	397.4	398.0	398.6	398.0	397.4	398.0
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1296.2	1291.9	1286.4	1280.0	1272.4	1265.6	1262.6	1265.1	1266.4	1263.0	1262.6
5°	1256.7	1243.4	1232.8	1216.8	1204.1	1193.4	1186.0	1182.8	1183.9	1175.4	1173.2
7.5°	1212.4	1196.6	1179.2	1160.3	1142.6	1127.0	1118.8	1114.3	1105.3	1101.4	1094.9
10°	1183.9	1162.6	1145.6	1123.2	1103.0	1084.4	1075.4	1067.9	1058.9	1054.6	1045.6
12.5°	1154.5	1129.8	1111.1	1087.9	1067.3	1044.8	1036.2	1022.4	1008.3	999.3	987.7
15°	1113.1	1083.4	1060.5	1032.8	1008.4	982.8	960.0	934.4	924.9	904.7	893.0
17.5°	1064.7	1034.5	1006.2	969.1	931.4	899.7	875.3	850.8	836.2	823.3	817.3
20°	1032.8	1005.2	965.8	922.7	880.7	845.6	825.9	810.0	794.0	785.0	778.6
22.5°	1002.6	967.3	921.6	875.1	833.1	805.6	788.9	772.5	759.6	751.0	742.4
25°	952.0	905.7	857.3	804.1	775.4	751.5	733.4	720.1	712.1	701.0	696.7
27.5°	900.0	843.9	790.5	754.8	724.9	703.0	687.2	677.2	667.1	660.0	654.5
30°	860.0	803.1	755.2	721.2	690.9	672.8	660.0	648.3	640.3	634.5	630.2
32.5°	820.4	763.5	723.3	686.7	662.8	645.1	631.5	622.8	616.5	609.0	606.4
35°	763.2	712.7	677.6	644.6	620.1	604.2	593.5	584.5	579.2	577.0	575.4
37.5°	708.2	666.8	629.1	602.0	580.2	567.7	555.1	550.7	547.0	543.2	544.9
40°	673.3	634.5	601.0	572.3	554.7	540.9	533.4	528.1	524.9	524.9	524.9
42.5°	643.1	605.1	572.5	546.7	529.2	517.5	509.2	504.7	503.6	503.2	505.8
45°	596.2	561.1	528.1	506.8	491.9	480.2	475.5	471.7	471.7	473.9	474.4
47.5°	549.7	516.8	490.4	466.5	452.9	445.6	441.4	439.5	439.7	441.9	444.3
50°	521.2	488.8	462.7	441.4	428.7	421.7	418.0	417.0	418.0	418.0	421.7
52.5°	490.1	461.1	435.5	417.6	403.1	396.6	394.6	393.1	393.8	395.5	397.1
55°	444.6	418.6	394.1	377.1	366.4	362.2	357.4	357.9	356.9	357.9	357.9
57.5°	399.0	375.6	352.8	339.3	330.0	323.8	318.6	320.1	318.5	318.3	317.4
60°	369.6	344.1	326.0	313.8	303.1	297.8	293.0	294.1	292.5	291.4	289.3
62.5°	337.7	316.4	299.2	287.4	278.9	272.7	267.9	266.9	263.2	259.5	254.9
65°	291.4	273.9	258.5	247.3	239.3	234.5	230.8	227.6	219.6	211.1	206.9
67.5°	246.5	233.8	219.4	210.0	203.5	197.2	190.1	184.7	177.2	172.5	169.9
70°	217.5	205.3	193.1	184.0	177.1	171.3	163.3	159.6	154.2	152.1	149.4
72.5°	189.9	178.5	167.1	158.9	151.6	147.0	140.7	137.0	134.7	133.8	131.2
75°	147.9	138.8	130.3	122.9	117.0	113.8	111.2	108.5	107.4	102.6	100.0
77.5°	107.9	101.9	96.6	91.3	87.1	85.0	79.9	76.8	75.0	72.8	72.2
80°	84.0	79.8	74.5	71.3	65.4	63.3	61.2	60.6	60.1	59.6	59.0
82.5°	63.2	58.9	53.6	51.7	50.1	48.8	47.5	47.0	46.5	46.8	46.7
85°	31.9	29.8	29.8	29.3	28.7	28.2	27.7	27.7	27.1	27.7	27.1
87.5°	11.9	11.5	12.4	11.5	12.3	12.6	12.0	12.2	12.8	12.1	12.1
90°	6.3	6.3	10.9	10.9	12.5	14.1	13.3	14.1	14.9	15.6	15.6
92.5°	41.3	57.5	97.3	157.9	217.1	248.0	206.6	153.6	115.6	92.0	76.3
95°	64.9	97.7	165.8	294.0	480.9	637.3	655.3	579.4	458.2	353.4	277.6
97.5°	78.5	106.0	158.4	264.3	450.1	671.2	823.2	856.0	811.0	734.5	652.9
100°	89.1	114.2	160.3	248.7	408.2	628.7	828.8	943.0	958.6	920.3	862.5
102.5°	101.0	124.8	166.5	244.3	380.0	575.5	781.9	938.6	1016.2	1027.3	1003.2
105°	121.2	143.9	181.4	246.3	355.8	512.9	696.7	875.8	1011.0	1088.4	1120.5
107.5°	142.0	164.4	198.8	257.9	351.4	477.9	627.9	786.5	930.5	1039.5	1109.2
110°	156.4	177.5	211.9	266.6	352.6	466.0	593.5	732.7	867.9	981.3	1067.3



TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.1	191.3	224.4	276.0	356.4	460.4	574.1	693.3	812.9	920.0	1006.0
115°	191.6	212.7	244.0	290.9	363.6	457.4	555.9	653.7	749.9	841.3	916.4
117.5°	211.3	233.2	262.9	306.0	371.3	456.6	547.8	634.3	713.9	785.8	849.5
120°	224.4	246.3	276.0	316.7	376.9	456.6	543.4	625.5	698.3	760.8	816.3
122.5°	237.5	258.8	288.5	326.7	382.5	456.0	538.4	618.0	688.2	745.2	793.8
125°	255.7	277.6	305.7	341.7	391.0	455.1	530.1	605.2	672.5	726.4	769.4
127.5°	272.4	294.5	321.7	354.7	397.7	453.4	519.0	589.6	653.8	707.6	748.5
130°	283.1	305.7	332.3	362.8	402.7	452.7	512.2	577.1	638.8	692.0	733.4
132.5°	293.1	314.5	341.1	370.9	407.1	452.1	505.9	563.9	621.9	673.9	715.3
135°	307.3	327.6	353.4	381.6	413.6	451.2	496.5	545.8	596.6	644.3	683.4
137.5°	319.3	338.7	362.8	389.1	417.5	451.0	488.4	529.4	572.4	612.6	647.9
140°	326.8	345.6	369.1	394.1	420.7	450.4	484.0	520.0	556.7	591.9	624.8
142.5°	333.7	351.9	374.7	397.8	423.2	450.4	480.3	511.2	543.6	573.8	602.2
145°	343.3	360.5	380.8	401.9	424.6	448.8	473.8	498.9	525.5	548.9	570.8
147.5°	352.5	368.0	387.1	405.5	425.4	446.0	468.1	488.7	509.8	528.6	545.8
150°	358.1	373.0	390.2	407.4	425.4	444.1	463.7	482.4	500.4	516.1	530.1
152.5°	363.8	377.4	392.7	408.6	424.1	441.0	458.7	475.6	491.0	505.4	517.0
155°	371.4	383.1	396.4	409.7	422.2	436.3	451.2	465.2	477.8	489.5	498.9
157.5°	378.6	387.8	399.1	409.7	420.2	431.5	443.5	454.1	464.6	474.5	482.0
160°	382.4	391.0	400.3	409.7	418.3	427.7	437.9	447.3	455.9	464.5	470.7
162.5°	386.1	392.8	401.6	409.7	416.5	424.0	432.9	440.4	447.7	454.5	460.1
165°	390.2	394.9	401.9	408.2	412.9	418.3	424.6	430.8	435.5	441.0	444.9
167.5°	393.0	396.6	401.8	406.3	409.1	412.7	417.1	421.6	425.2	429.6	431.9
170°	394.9	397.2	401.1	405.0	406.6	408.9	412.1	416.0	418.3	421.5	423.8
172.5°	396.1	397.8	400.5	403.8	404.1	405.2	407.7	411.0	412.7	414.6	416.3
175°	398.0	398.0	399.6	401.9	401.1	401.1	402.7	404.3	405.0	406.6	406.6
177.5°	398.0	398.0	398.6	399.9	398.6	398.6	399.2	399.9	400.5	400.5	401.1
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1260.0	1260.9	1257.9	1257.0	1257.9	1260.9	1260.0	1262.6	1263.0	1266.4	1265.1
5°	1169.0	1167.9	1165.3	1165.8	1165.3	1167.9	1169.0	1173.2	1175.4	1183.9	1182.8
7.5°	1091.1	1087.0	1088.1	1083.9	1088.1	1087.0	1091.1	1094.9	1101.4	1105.3	1114.3
10°	1043.5	1037.6	1032.8	1028.6	1032.8	1037.6	1043.5	1045.6	1054.6	1058.9	1067.9
12.5°	978.4	973.4	966.9	968.2	966.9	973.4	978.4	987.7	999.3	1008.3	1022.4
15°	886.0	878.1	865.3	866.9	865.3	878.1	886.0	893.0	904.7	924.9	934.4
17.5°	807.9	808.0	802.1	803.5	802.1	808.0	807.9	817.3	823.3	836.2	850.8
20°	767.4	763.7	764.2	762.7	764.2	763.7	767.4	778.6	785.0	794.0	810.0
22.5°	739.4	734.8	731.1	727.8	731.1	734.8	739.4	742.4	751.0	759.6	772.5
25°	691.9	688.7	683.9	682.9	683.9	688.7	691.9	696.7	701.0	712.1	720.1
27.5°	650.2	649.6	647.7	645.2	647.7	649.6	650.2	654.5	660.0	667.1	677.2
30°	626.0	624.9	623.8	622.2	623.8	624.9	626.0	630.2	634.5	640.3	648.3
32.5°	604.3	603.6	602.6	602.7	602.6	603.6	604.3	606.4	609.0	616.5	622.8
35°	573.3	572.8	571.7	571.2	571.7	572.8	573.3	575.4	577.0	579.2	584.5
37.5°	544.4	545.8	545.1	545.0	545.1	545.8	544.4	544.9	543.2	547.0	550.7
40°	524.4	524.9	526.0	525.5	526.0	524.9	524.4	524.9	524.9	524.9	528.1
42.5°	507.8	507.9	509.4	507.6	509.4	507.9	507.8	505.8	503.2	503.6	504.7
45°	478.1	481.3	480.8	480.8	480.8	481.3	478.1	474.4	473.9	471.7	471.7
47.5°	445.7	448.4	449.2	449.1	449.2	448.4	445.7	444.3	441.9	439.7	439.5
50°	424.4	423.3	424.9	424.4	424.9	423.3	424.4	421.7	418.0	418.0	417.0
52.5°	398.5	398.7	398.6	398.0	398.6	398.7	398.5	397.1	395.5	393.8	393.1
55°	358.5	359.0	357.9	358.5	357.9	359.0	358.5	357.9	357.9	356.9	357.9
57.5°	315.1	312.5	313.6	312.3	313.6	312.5	315.1	317.4	318.3	318.5	320.1
60°	284.0	279.7	278.7	276.6	278.7	279.7	284.0	289.3	291.4	292.5	294.1
62.5°	249.1	246.1	242.5	244.2	242.5	246.1	249.1	254.9	259.5	263.2	266.9
65°	202.6	200.5	198.9	201.0	198.9	200.5	202.6	206.9	211.1	219.6	227.6
67.5°	167.7	166.6	166.6	165.5	166.6	166.6	167.7	169.9	172.5	177.2	184.7
70°	149.4	147.9	147.9	146.8	147.9	147.9	149.4	149.4	152.1	154.2	159.6
72.5°	130.7	129.1	129.6	128.9	129.6	129.1	130.7	131.2	133.8	134.7	137.0
75°	96.8	94.1	94.1	94.7	94.1	94.1	96.8	100.0	102.6	107.4	108.5
77.5°	72.2	71.7	72.4	71.5	72.4	71.7	72.2	72.2	72.8	75.0	76.8
80°	59.0	58.5	58.0	59.6	58.0	58.5	59.0	59.0	59.6	60.1	60.6
82.5°	45.8	45.7	45.6	47.7	45.6	45.7	45.8	46.7	46.8	46.5	47.0
85°	27.7	26.6	27.7	26.6	27.7	26.6	27.7	27.1	27.7	27.1	27.7
87.5°	13.1	12.8	12.2	12.6	12.2	12.8	13.1	12.1	12.1	12.8	12.2
90°	16.4	17.2	16.4	16.4	16.4	17.2	16.4	15.6	15.6	14.9	14.1
92.5°	67.1	62.9	60.2	60.2	60.2	62.9	67.1	76.3	92.0	115.6	153.6
95°	239.3	215.0	201.0	190.8	201.0	215.0	239.3	277.6	353.4	458.2	579.4
97.5°	596.8	549.7	526.2	510.0	526.2	549.7	596.8	652.9	734.5	811.0	856.0
100°	794.4	746.7	723.3	717.0	723.3	746.7	794.4	862.5	920.3	958.6	943.0
102.5°	961.5	926.9	902.2	897.2	902.2	926.9	961.5	1003.2	1027.3	1016.2	938.6
105°	1122.1	1115.8	1104.9	1100.2	1104.9	1115.8	1122.1	1120.5	1088.4	1011.0	875.8
107.5°	1147.9	1165.7	1173.5	1175.5	1173.5	1165.7	1147.9	1109.2	1039.5	930.5	786.5
110°	1122.8	1155.7	1169.8	1176.8	1169.8	1155.7	1122.8	1067.3	981.3	867.9	732.7



TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1069.0	1108.8	1128.5	1139.9	1128.5	1108.8	1069.0	1006.0	920.0	812.9	693.3
115°	978.2	1025.1	1050.1	1056.4	1050.1	1025.1	978.2	916.4	841.3	749.9	653.7
117.5°	902.2	941.6	966.9	971.8	966.9	941.6	902.2	849.5	785.8	713.9	634.3
120°	860.9	895.3	915.6	924.2	915.6	895.3	860.9	816.3	760.8	698.3	625.5
122.5°	831.5	860.9	878.1	886.7	878.1	860.9	831.5	793.8	745.2	688.2	618.0
125°	800.7	823.4	838.2	842.9	838.2	823.4	800.7	769.4	726.4	672.5	605.2
127.5°	779.9	800.1	812.6	817.3	812.6	800.1	779.9	748.5	707.6	653.8	589.6
130°	765.5	785.1	797.6	802.3	797.6	785.1	765.5	733.4	692.0	638.8	577.1
132.5°	746.7	768.8	780.7	785.4	780.7	768.8	746.7	715.3	673.9	621.9	563.9
135°	714.7	736.6	749.1	753.8	749.1	736.6	714.7	683.4	644.3	596.6	545.8
137.5°	677.1	698.7	709.0	714.7	709.0	698.7	677.1	647.9	612.6	572.4	529.4
140°	652.1	669.3	680.3	686.5	680.3	669.3	652.1	624.8	591.9	556.7	520.0
142.5°	626.5	642.4	652.1	656.5	652.1	642.4	626.5	602.2	573.8	543.6	511.2
145°	590.4	603.6	611.5	615.4	611.5	603.6	590.4	570.8	548.9	525.5	498.9
147.5°	560.2	571.6	577.5	578.9	577.5	571.6	560.2	545.8	528.6	509.8	488.7
150°	542.7	552.8	557.5	558.3	557.5	552.8	542.7	530.1	516.1	500.4	482.4
152.5°	527.6	535.9	538.7	539.5	538.7	535.9	527.6	517.0	505.4	491.0	475.6
155°	506.7	512.9	515.3	515.3	515.3	512.9	506.7	498.9	489.5	477.8	465.2
157.5°	487.9	492.6	494.0	494.0	494.0	492.6	487.9	482.0	474.5	464.6	454.1
160°	475.4	480.1	480.9	480.9	480.9	480.1	475.4	470.7	464.5	455.9	447.3
162.5°	463.5	468.2	469.0	468.4	469.0	468.2	463.5	460.1	454.5	447.7	440.4
165°	448.0	451.2	450.4	449.6	450.4	451.2	448.0	444.9	441.0	435.5	430.8
167.5°	433.5	435.5	435.4	434.7	435.4	435.5	433.5	431.9	429.6	425.2	421.6
170°	425.4	426.1	425.4	425.4	425.4	426.1	425.4	423.8	421.5	418.3	416.0
172.5°	417.2	418.0	417.2	416.0	417.2	418.0	417.2	416.3	414.6	412.7	411.0
175°	406.6	408.2	406.6	405.0	406.6	408.2	406.6	406.6	406.6	405.0	404.3
177.5°	400.5	401.1	399.9	398.6	399.9	401.1	400.5	401.1	400.5	400.5	399.9
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1262.6	1265.6	1272.4	1280.0	1286.4	1291.9	1296.2	1302.1	1307.7	1315.3	1322.6
5°	1186.0	1193.4	1204.1	1216.8	1232.8	1243.4	1256.7	1268.4	1285.4	1302.5	1319.0
7.5°	1118.8	1127.0	1142.6	1160.3	1179.2	1196.6	1212.4	1233.0	1255.6	1280.3	1308.0
10°	1075.4	1084.4	1103.0	1123.2	1145.6	1162.6	1183.9	1208.3	1233.9	1264.2	1298.2
12.5°	1036.2	1044.8	1067.3	1087.9	1111.1	1129.8	1154.5	1179.4	1213.4	1246.3	1285.0
15°	960.0	982.8	1008.4	1032.8	1060.5	1083.4	1113.1	1138.7	1171.1	1217.4	1261.5
17.5°	875.3	899.7	931.4	969.1	1006.2	1034.5	1064.7	1096.4	1135.0	1182.3	1233.2
20°	825.9	845.6	880.7	922.7	965.8	1005.2	1032.8	1067.9	1107.8	1158.9	1211.5
22.5°	788.9	805.6	833.1	875.1	921.6	967.3	1002.6	1037.3	1081.4	1132.5	1189.8
25°	733.4	751.5	775.4	804.1	857.3	905.7	952.0	991.9	1038.7	1089.7	1153.6
27.5°	687.2	703.0	724.9	754.8	790.5	843.9	900.0	945.5	993.5	1048.3	1112.2
30°	660.0	672.8	690.9	721.2	755.2	803.1	860.0	913.2	961.6	1018.5	1084.9
32.5°	631.5	645.1	662.8	686.7	723.3	763.5	820.4	878.7	930.1	988.3	1053.5
35°	593.5	604.2	620.1	644.6	677.6	712.7	763.2	823.3	877.5	939.8	1002.0
37.5°	555.1	567.7	580.2	602.0	629.1	666.8	708.2	769.6	829.7	886.5	947.2
40°	533.4	540.9	554.7	572.3	601.0	634.5	673.3	733.4	793.5	849.9	911.0
42.5°	509.2	517.5	529.2	546.7	572.5	605.1	643.1	695.1	757.8	812.4	868.1
45°	475.5	480.2	491.9	506.8	528.1	561.1	596.2	642.5	701.5	753.6	802.5
47.5°	441.4	445.6	452.9	466.5	490.4	516.8	549.7	591.2	643.0	695.1	736.5
50°	418.0	421.7	428.7	441.4	462.7	488.8	521.2	558.4	604.7	654.7	689.3
52.5°	394.6	396.6	403.1	417.6	435.5	461.1	490.1	524.4	567.7	609.2	644.2
55°	357.4	362.2	366.4	377.1	394.1	418.6	444.6	477.1	510.6	545.7	575.4
57.5°	318.6	323.8	330.0	339.3	352.8	375.6	399.0	425.3	453.9	483.0	508.0
60°	293.0	297.8	303.1	313.8	326.0	344.1	369.6	392.5	414.3	440.9	465.9
62.5°	267.9	272.7	278.9	287.4	299.2	316.4	337.7	357.6	380.3	403.5	422.1
65°	230.8	234.5	239.3	247.3	258.5	273.9	291.4	306.9	327.1	344.1	361.1
67.5°	190.1	197.2	203.5	210.0	219.4	233.8	246.5	261.2	275.0	287.6	303.1
70°	163.3	171.3	177.1	184.0	193.1	205.3	217.5	227.6	238.8	251.0	264.9
72.5°	140.7	147.0	151.6	158.9	167.1	178.5	189.9	198.3	207.3	215.7	229.1
75°	111.2	113.8	117.0	122.9	130.3	138.8	147.9	155.3	160.6	168.1	177.6
77.5°	79.9	85.0	87.1	91.3	96.6	101.9	107.9	114.1	119.2	121.9	129.2
80°	61.2	63.3	65.4	71.3	74.5	79.8	84.0	89.9	92.0	94.7	101.6
82.5°	47.5	48.8	50.1	51.7	53.6	58.9	63.2	66.9	69.0	70.0	75.2
85°	27.7	28.2	28.7	29.3	29.8	29.8	31.9	34.6	38.3	38.3	39.9
87.5°	12.0	12.6	12.3	11.5	12.4	11.5	11.9	11.7	12.9	13.7	14.6
90°	13.3	14.1	12.5	10.9	10.9	6.3	6.3	5.5	4.7	2.3	0.8
92.5°	206.6	248.0	217.1	157.9	97.3	57.5	41.3	29.9	20.3	13.0	8.9
95°	655.3	637.3	480.9	294.0	165.8	97.7	64.9	46.1	36.0	28.1	25.8
97.5°	823.2	671.2	450.1	264.3	158.4	106.0	78.5	62.4	53.0	46.3	46.3
100°	828.8	628.7	408.2	248.7	160.3	114.2	89.1	74.3	64.9	59.4	59.4
102.5°	781.9	575.5	380.0	244.3	166.5	124.8	101.0	86.8	78.0	73.2	71.9
105°	696.7	512.9	355.8	246.3	181.4	143.9	121.2	107.1	97.7	93.8	91.5
107.5°	627.9	477.9	351.4	257.9	198.8	164.4	142.0	128.5	118.5	114.6	113.1
110°	593.5	466.0	352.6	266.6	211.9	177.5	156.4	142.3	132.9	129.0	127.5



TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	574.1	460.4	356.4	276.0	224.4	191.3	170.1	156.1	147.3	142.8	141.2
115°	555.9	457.4	363.6	290.9	244.0	212.7	191.6	176.7	168.9	163.4	161.1
117.5°	547.8	456.6	371.3	306.0	262.9	233.2	211.3	197.4	188.8	183.9	181.7
120°	543.4	456.6	376.9	316.7	276.0	246.3	224.4	211.1	202.5	197.0	195.5
122.5°	538.4	456.0	382.5	326.7	288.5	258.8	237.5	223.0	215.0	209.6	208.0
125°	530.1	455.1	391.0	341.7	305.7	277.6	255.7	240.8	232.2	227.5	224.4
127.5°	519.0	453.4	397.7	354.7	321.7	294.5	272.4	256.9	247.1	241.5	239.0
130°	512.2	452.7	402.7	362.8	332.3	305.7	283.1	268.2	256.5	250.2	247.1
132.5°	505.9	452.1	407.1	370.9	341.1	314.5	293.1	277.0	265.9	257.7	255.2
135°	496.5	451.2	413.6	381.6	353.4	327.6	307.3	290.9	277.6	269.8	266.6
137.5°	488.4	451.0	417.5	389.1	362.8	338.7	319.3	302.3	289.6	281.0	278.1
140°	484.0	450.4	420.7	394.1	369.1	345.6	326.8	310.4	297.1	288.5	286.2
142.5°	480.3	450.4	423.2	397.8	374.7	351.9	333.7	317.9	305.3	297.3	294.9
145°	473.8	448.8	424.6	401.9	380.8	360.5	343.3	328.4	317.5	309.6	307.3
147.5°	468.1	446.0	425.4	405.5	387.1	368.0	352.5	340.1	328.9	322.0	321.2
150°	463.7	444.1	425.4	407.4	390.2	373.0	358.1	346.4	337.0	330.8	330.0
152.5°	458.7	441.0	424.1	408.6	392.7	377.4	363.8	353.3	344.5	338.3	338.1
155°	451.2	436.3	422.2	409.7	396.4	383.1	371.4	362.8	355.0	350.3	349.5
157.5°	443.5	431.5	420.2	409.7	399.1	387.8	378.6	371.1	365.0	360.6	360.6
160°	437.9	427.7	418.3	409.7	400.3	391.0	382.4	376.1	370.6	367.5	367.5
162.5°	432.9	424.0	416.5	409.7	401.6	392.8	386.1	380.5	375.6	373.1	373.8
165°	424.6	418.3	412.9	408.2	401.9	394.9	390.2	386.3	382.4	380.8	380.8
167.5°	417.1	412.7	409.1	406.3	401.8	396.6	393.0	390.8	387.8	387.1	387.8
170°	412.1	408.9	406.6	405.0	401.1	397.2	394.9	393.3	391.0	390.2	391.0
172.5°	407.7	405.2	404.1	403.8	400.5	397.8	396.1	395.2	393.5	393.3	394.1
175°	402.7	401.1	401.1	401.9	399.6	398.0	398.0	397.2	396.4	396.4	397.2
177.5°	399.2	398.6	398.6	399.9	398.6	398.0	398.0	398.0	397.4	398.0	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1328.1	1331.9	1336.2	1344.3	1351.1	1354.1	1360.0	1364.3	1363.0	1368.9	1379.2
5°	1333.3	1347.7	1364.2	1381.2	1400.3	1416.3	1429.0	1441.8	1451.9	1464.1	1482.2
7.5°	1332.5	1358.0	1385.8	1416.3	1447.7	1474.8	1499.9	1525.4	1548.1	1572.9	1605.3
10°	1329.1	1363.1	1397.7	1437.6	1477.4	1515.2	1549.2	1581.2	1611.5	1643.9	1684.9
12.5°	1325.2	1364.4	1406.2	1454.1	1503.8	1549.2	1589.2	1635.2	1673.2	1715.0	1762.3
15°	1308.3	1361.0	1417.9	1480.1	1539.7	1600.8	1655.6	1712.0	1764.6	1814.6	1874.2
17.5°	1289.0	1349.7	1416.8	1490.3	1561.9	1636.2	1701.2	1772.3	1826.1	1893.2	1948.5
20°	1273.2	1338.6	1410.4	1492.9	1574.2	1656.7	1728.5	1800.8	1861.4	1929.0	1999.2
22.5°	1254.1	1325.9	1403.6	1489.0	1574.2	1664.3	1743.8	1815.7	1890.8	1966.8	2039.2
25°	1223.2	1297.7	1380.1	1473.7	1571.6	1663.6	1748.7	1838.0	1918.9	2001.3	2066.2
27.5°	1185.4	1263.5	1350.4	1447.0	1547.4	1641.7	1741.9	1837.1	1918.4	1997.8	2054.4
30°	1155.1	1237.6	1321.1	1418.9	1523.2	1624.2	1731.7	1826.9	1912.5	1983.8	2015.7
32.5°	1124.1	1202.3	1288.3	1387.5	1494.2	1603.0	1709.5	1806.9	1886.1	1928.9	1929.7
35°	1070.1	1143.4	1232.8	1330.1	1439.7	1557.8	1665.7	1761.4	1809.8	1813.6	1761.4
37.5°	1011.1	1078.5	1162.8	1260.2	1380.2	1497.7	1608.0	1671.8	1687.9	1633.8	1537.4
40°	969.0	1031.2	1112.6	1212.6	1331.7	1453.0	1553.5	1600.3	1583.3	1495.5	1388.1
42.5°	924.8	982.7	1061.1	1159.8	1279.4	1401.9	1487.5	1512.7	1467.6	1366.2	1240.5
45°	852.5	905.7	983.4	1082.8	1197.7	1312.6	1377.5	1364.7	1289.7	1169.5	1028.6
47.5°	777.3	828.7	898.6	990.6	1108.2	1207.4	1251.3	1212.8	1106.1	973.9	859.2
50°	727.6	780.2	844.6	932.3	1039.7	1135.5	1163.7	1105.2	986.6	859.4	754.1
52.5°	678.6	723.6	786.7	871.5	974.2	1055.1	1070.1	1002.6	880.2	766.3	672.9
55°	604.2	645.1	698.3	778.1	866.9	935.5	927.5	840.8	729.7	632.4	559.0
57.5°	532.2	563.0	612.1	686.9	764.9	810.9	781.8	707.9	604.3	524.6	462.7
60°	484.5	513.2	559.0	624.4	693.0	719.0	694.6	614.3	532.4	459.5	407.4
62.5°	439.4	464.7	504.1	564.8	620.2	635.7	609.5	539.4	465.6	403.3	360.2
65°	373.9	397.3	430.8	473.9	512.2	519.6	502.6	430.8	374.9	322.8	293.0
67.5°	314.4	329.7	355.9	393.1	413.5	417.8	384.9	339.8	290.6	258.6	236.1
70°	274.4	285.1	309.5	329.7	346.2	346.8	316.4	280.3	242.5	216.5	200.0
72.5°	235.7	245.9	264.4	278.3	290.9	286.8	259.0	230.5	200.0	180.3	168.1
75°	181.9	190.9	200.5	206.9	206.9	201.6	181.4	160.1	142.5	130.8	127.1
77.5°	132.2	139.7	142.9	141.9	140.0	131.7	118.9	105.0	98.7	93.2	90.4
80°	103.7	106.9	108.0	105.3	102.1	92.5	84.0	78.2	72.3	70.2	69.1
82.5°	76.9	79.7	76.9	77.6	70.6	62.8	58.1	56.1	53.6	52.8	51.7
85°	41.0	40.4	39.4	36.7	31.9	30.8	30.3	29.8	28.7	29.3	28.2
87.5°	14.5	13.7	12.2	11.9	11.9	12.0	12.4	12.7	13.0	12.4	13.5
90°	2.3	4.7	5.5	6.3	6.3	10.9	10.9	12.5	14.1	13.3	14.1
92.5°	13.0	20.3	29.9	41.3	57.5	97.3	157.9	217.1	248.0	206.6	153.6
95°	28.1	36.0	46.1	64.9	97.7	165.8	294.0	480.9	637.3	655.3	579.4
97.5°	46.3	53.0	62.4	78.5	106.0	158.4	264.3	450.1	671.2	823.2	856.0
100°	59.4	64.9	74.3	89.1	114.2	160.3	248.7	408.2	628.7	828.8	943.0
102.5°	73.2	78.0	86.8	101.0	124.8	166.5	244.3	380.0	575.5	781.9	938.6
105°	93.8	97.7	107.1	121.2	143.9	181.4	246.3	355.8	512.9	696.7	875.8
107.5°	114.6	118.5	128.5	142.0	164.4	198.8	257.9	351.4	477.9	627.9	786.5
110°	129.0	132.9	142.3	156.4	177.5	211.9	266.6	352.6	466.0	593.5	732.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.8	147.3	156.1	170.1	191.3	224.4	276.0	356.4	460.4	574.1	693.3
115°	163.4	168.9	176.7	191.6	212.7	244.0	290.9	363.6	457.4	555.9	653.7
117.5°	183.9	188.8	197.4	211.3	233.2	262.9	306.0	371.3	456.6	547.8	634.3
120°	197.0	202.5	211.1	224.4	246.3	276.0	316.7	376.9	456.6	543.4	625.5
122.5°	209.6	215.0	223.0	237.5	258.8	288.5	326.7	382.5	456.0	538.4	618.0
125°	227.5	232.2	240.8	255.7	277.6	305.7	341.7	391.0	455.1	530.1	605.2
127.5°	241.5	247.1	256.9	272.4	294.5	321.7	354.7	397.7	453.4	519.0	589.6
130°	250.2	256.5	268.2	283.1	305.7	332.3	362.8	402.7	452.7	512.2	577.1
132.5°	257.7	265.9	277.0	293.1	314.5	341.1	370.9	407.1	452.1	505.9	563.9
135°	269.8	277.6	290.9	307.3	327.6	353.4	381.6	413.6	451.2	496.5	545.8
137.5°	281.0	289.6	302.3	319.3	338.7	362.8	389.1	417.5	451.0	488.4	529.4
140°	288.5	297.1	310.4	326.8	345.6	369.1	394.1	420.7	450.4	484.0	520.0
142.5°	297.3	305.3	317.9	333.7	351.9	374.7	397.8	423.2	450.4	480.3	511.2
145°	309.6	317.5	328.4	343.3	360.5	380.8	401.9	424.6	448.8	473.8	498.9
147.5°	322.0	328.9	340.1	352.5	368.0	387.1	405.5	425.4	446.0	468.1	488.7
150°	330.8	337.0	346.4	358.1	373.0	390.2	407.4	425.4	444.1	463.7	482.4
152.5°	338.3	344.5	353.3	363.8	377.4	392.7	408.6	424.1	441.0	458.7	475.6
155°	350.3	355.0	362.8	371.4	383.1	396.4	409.7	422.2	436.3	451.2	465.2
157.5°	360.6	365.0	371.1	378.6	387.8	399.1	409.7	420.2	431.5	443.5	454.1
160°	367.5	370.6	376.1	382.4	391.0	400.3	409.7	418.3	427.7	437.9	447.3
162.5°	373.1	375.6	380.5	386.1	392.8	401.6	409.7	416.5	424.0	432.9	440.4
165°	380.8	382.4	386.3	390.2	394.9	401.9	408.2	412.9	418.3	424.6	430.8
167.5°	387.1	387.8	390.8	393.0	396.6	401.8	406.3	409.1	412.7	417.1	421.6
170°	390.2	391.0	393.3	394.9	397.2	401.1	405.0	406.6	408.9	412.1	416.0
172.5°	393.3	393.5	395.2	396.1	397.8	400.5	403.8	404.1	405.2	407.7	411.0
175°	396.4	396.4	397.2	398.0	398.0	399.6	401.9	401.1	401.1	402.7	404.3
177.5°	398.0	397.4	398.0	398.0	398.0	398.6	399.9	398.6	398.6	399.2	399.9
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332939

CATALOG NUMBER: S124RDIP-S795D810U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1384.7	1386.4	1387.7	1391.9	1392.3	1396.2	1392.3
5°	1499.2	1506.7	1518.4	1530.1	1531.2	1538.6	1525.3
7.5°	1627.7	1645.0	1655.7	1674.6	1682.1	1686.8	1679.1
10°	1716.2	1732.2	1760.4	1774.2	1788.0	1790.2	1783.8
12.5°	1801.8	1827.1	1849.3	1875.5	1874.8	1893.6	1886.7
15°	1915.7	1941.7	1972.6	2001.8	2012.5	2012.5	2021.0
17.5°	1996.9	2044.7	2076.6	2099.6	2124.7	2129.0	2126.1
20°	2051.8	2103.4	2137.5	2167.2	2184.3	2189.0	2189.0
22.5°	2092.7	2136.6	2169.8	2196.6	2210.6	2216.3	2214.6
25°	2121.0	2158.7	2178.9	2186.9	2190.6	2189.6	2179.5
27.5°	2082.2	2080.5	2067.8	2043.3	2024.9	2013.7	2001.0
30°	2008.2	1980.6	1948.7	1913.5	1868.3	1833.8	1823.1
32.5°	1898.0	1835.9	1781.9	1723.4	1674.8	1640.2	1625.7
35°	1684.9	1586.5	1506.2	1436.0	1384.9	1353.0	1342.4
37.5°	1431.9	1336.7	1237.3	1169.2	1126.9	1094.6	1082.6
40°	1271.1	1167.4	1080.7	1016.9	973.3	941.9	941.4
42.5°	1124.3	1025.3	943.7	897.7	850.7	830.0	829.9
45°	920.6	841.4	772.2	736.1	707.9	690.9	686.1
47.5°	762.2	696.7	650.6	621.8	598.8	588.0	581.0
50°	673.3	615.9	579.2	554.2	541.4	527.6	526.5
52.5°	599.3	552.9	524.3	504.0	487.8	479.5	479.7
55°	503.6	467.0	446.7	431.3	418.6	412.2	409.5
57.5°	424.3	396.8	382.1	367.9	362.5	357.5	356.1
60°	374.9	356.3	342.5	331.3	323.4	321.8	321.2
62.5°	334.1	314.6	305.1	296.4	290.6	288.1	287.2
65°	275.5	261.1	252.6	245.7	243.6	239.9	239.3
67.5°	222.1	213.5	207.8	203.1	200.2	200.0	200.0
70°	189.3	184.5	179.8	177.1	175.5	174.4	174.4
72.5°	161.3	157.7	153.8	152.4	152.1	151.0	150.6
75°	122.9	119.1	119.7	117.0	114.9	112.2	110.6
77.5°	87.1	84.5	83.9	83.6	81.8	81.5	82.3
80°	67.5	64.9	64.4	64.9	64.4	62.8	62.8
82.5°	51.4	49.1	48.6	48.3	47.8	48.3	47.4
85°	27.7	26.6	26.6	26.6	27.7	27.1	26.6
87.5°	12.8	12.5	12.9	12.6	12.8	12.2	12.6
90°	14.9	15.6	15.6	16.4	17.2	16.4	16.4
92.5°	115.6	92.0	76.3	67.1	62.9	60.2	60.2
95°	458.2	353.4	277.6	239.3	215.0	201.0	190.8
97.5°	811.0	734.5	652.9	596.8	549.7	526.2	510.0
100°	958.6	920.3	862.5	794.4	746.7	723.3	717.0
102.5°	1016.2	1027.3	1003.2	961.5	926.9	902.2	897.2
105°	1011.0	1088.4	1120.5	1122.1	1115.8	1104.9	1100.2
107.5°	930.5	1039.5	1109.2	1147.9	1165.7	1173.5	1175.5
110°	867.9	981.3	1067.3	1122.8	1155.7	1169.8	1176.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	812.9	920.0	1006.0	1069.0	1108.8	1128.5	1139.9
115°	749.9	841.3	916.4	978.2	1025.1	1050.1	1056.4
117.5°	713.9	785.8	849.5	902.2	941.6	966.9	971.8
120°	698.3	760.8	816.3	860.9	895.3	915.6	924.2
122.5°	688.2	745.2	793.8	831.5	860.9	878.1	886.7
125°	672.5	726.4	769.4	800.7	823.4	838.2	842.9
127.5°	653.8	707.6	748.5	779.9	800.1	812.6	817.3
130°	638.8	692.0	733.4	765.5	785.1	797.6	802.3
132.5°	621.9	673.9	715.3	746.7	768.8	780.7	785.4
135°	596.6	644.3	683.4	714.7	736.6	749.1	753.8
137.5°	572.4	612.6	647.9	677.1	698.7	709.0	714.7
140°	556.7	591.9	624.8	652.1	669.3	680.3	686.5
142.5°	543.6	573.8	602.2	626.5	642.4	652.1	656.5
145°	525.5	548.9	570.8	590.4	603.6	611.5	615.4
147.5°	509.8	528.6	545.8	560.2	571.6	577.5	578.9
150°	500.4	516.1	530.1	542.7	552.8	557.5	558.3
152.5°	491.0	505.4	517.0	527.6	535.9	538.7	539.5
155°	477.8	489.5	498.9	506.7	512.9	515.3	515.3
157.5°	464.6	474.5	482.0	487.9	492.6	494.0	494.0
160°	455.9	464.5	470.7	475.4	480.1	480.9	480.9
162.5°	447.7	454.5	460.1	463.5	468.2	469.0	468.4
165°	435.5	441.0	444.9	448.0	451.2	450.4	449.6
167.5°	425.2	429.6	431.9	433.5	435.5	435.4	434.7
170°	418.3	421.5	423.8	425.4	426.1	425.4	425.4
172.5°	412.7	414.6	416.3	417.2	418.0	417.2	416.0
175°	405.0	406.6	406.6	406.6	408.2	406.6	405.0
177.5°	400.5	400.5	401.1	400.5	401.1	399.9	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0

(END OF REPORT)