

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: P332002

Luminaire Tested: **S123DIP-S1000D365U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332002  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D365U835-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5553.9 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

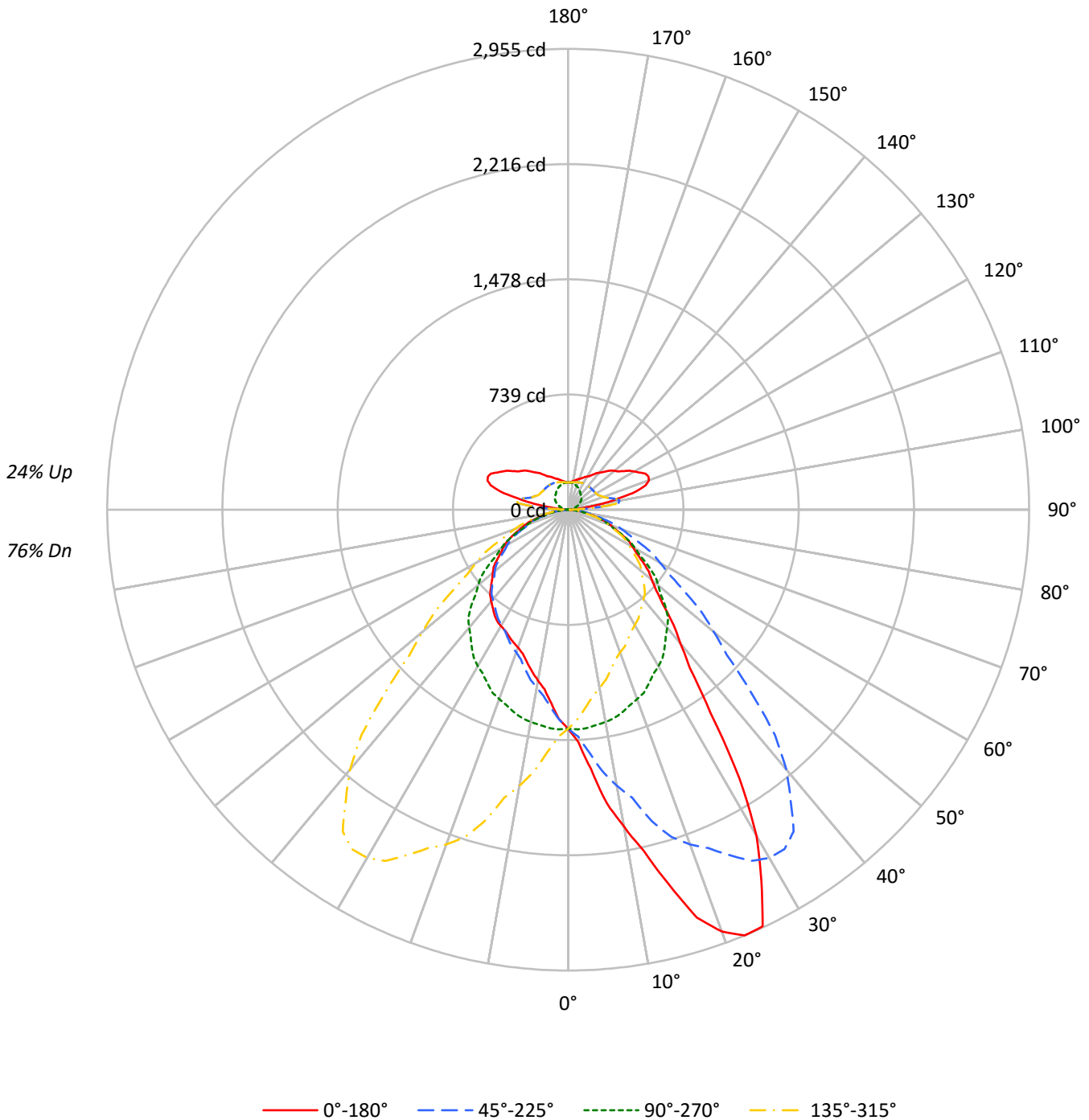
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332002

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	80	76							
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	65								
2	95	88	81	76	90	84	78	73	77	72	68	70	66	63	64	61	59	55								
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50	47								
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	41								
5	74	62	53	47	70	59	52	46	54	48	43	50	45	41	46	42	38	36								
6	68	56	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34	31								
7	63	50	42	36	60	48	41	35	45	38	34	41	36	32	38	34	30	28								
8	59	46	38	32	56	44	37	32	41	35	30	38	33	29	35	30	27	25								
9	55	42	34	29	52	41	33	28	38	31	27	35	30	26	32	28	24	22								
10	51	39	31	26	49	37	30	26	35	29	25	32	27	23	30	26	22	20								

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

	0°	90°	180°	270°
0°	15118	15118	15118	15118
5°	18029	15183	13456	15183
10°	22566	15106	12153	15106
15°	27679	14985	11314	14985
20°	32972	14795	10772	14795
25°	35011	14563	10652	14563
30°	30009	14395	10708	14395
35°	20871	14155	10820	14155
40°	15719	13874	10786	13874
45°	13052	13457	10648	13457
50°	11692	12603	10551	12603
55°	10931	11684	10421	11684
60°	10254	10723	10314	10723
65°	9638	9775	9984	9775
70°	9039	8696	9508	8696
75°	8093	7615	8717	7615
80°	7085	6242	7507	6242
85°	5545	4533	5039	4533



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	2.5
10°-20°	443.6	8.0
20°-30°	744.6	13.4
30°-40°	843.1	15.2
40°-50°	756.1	13.6
50°-60°	610.1	11.0
60°-70°	425.2	7.7
70°-80°	223.5	4.0
80°-90°	56.0	1.0
90°-100°	97.2	1.7
100°-110°	275.1	5.0
110°-120°	270.6	4.9
120°-130°	215.9	3.9
130°-140°	170.2	3.1
140°-150°	127.0	2.3
150°-160°	88.5	1.6
160°-170°	52.0	0.9
170°-180°	16.9	0.3
0°-30°	1326.6	23.9
0°-40°	2169.7	39.1
0°-60°	3535.9	63.7
0°-90°	4240.5	76.4
90°-120°	642.9	11.6
90°-150°	1155.9	20.8
90°-180°	1313.0	23.6
0°-180°	5553.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1404	1404	1404	1404	1404	
5°	1669	1405	1245	1405	1669	173
15°	2484	1345	1015	1345	2484	717
25°	2948	1226	897	1226	2948	1293
35°	1588	1077	823	1077	1588	1032
45°	857	884	700	884	857	678
55°	582	623	555	623	582	523
65°	378	384	392	384	378	377
75°	195	183	210	183	195	208
85°	45	37	41	37	45	53
90°	10	1	10	1	10	8
95°	41	12	41	12	41	74
105°	450	41	450	41	450	443
115°	547	72	547	72	547	531
125°	431	101	431	101	431	391
135°	350	118	350	118	350	271
145°	273	135	273	135	273	174
155°	226	153	226	153	226	106
165°	198	167	198	167	198	56
175°	178	174	178	174	178	17
180°	175	175	175	175	175	



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1490.5	1489.5	1486.7	1488.9	1484.6	1478.6	1478.0	1472.6	1456.8	1455.7	1451.4
5°	1668.6	1663.1	1662.4	1661.8	1652.2	1639.3	1614.8	1612.8	1580.1	1563.8	1544.0
7.5°	1899.1	1902.0	1892.0	1883.3	1854.2	1835.0	1808.7	1775.1	1735.0	1694.3	1667.2
10°	2064.6	2087.1	2059.2	2040.1	2022.4	1989.1	1950.3	1902.0	1853.7	1797.2	1754.3
12.5°	2242.1	2253.1	2247.5	2229.6	2202.1	2151.3	2082.6	2029.4	1984.9	1890.8	1852.8
15°	2483.8	2525.3	2498.8	2437.5	2438.9	2390.6	2300.7	2202.1	2149.7	2067.3	1955.1
17.5°	2741.3	2746.5	2735.2	2684.1	2650.1	2583.7	2500.8	2406.2	2300.1	2200.4	2081.4
20°	2878.5	2874.4	2850.6	2824.0	2765.5	2713.8	2623.3	2517.8	2381.7	2283.7	2153.8
22.5°	2954.7	2947.9	2936.6	2914.4	2865.7	2810.2	2728.9	2613.6	2484.1	2349.1	2198.9
25°	2947.9	2956.7	2958.1	2952.0	2935.0	2901.6	2837.6	2745.8	2616.5	2443.0	2286.5
27.5°	2681.1	2693.7	2730.0	2762.3	2798.3	2835.1	2830.2	2784.6	2688.9	2539.0	2347.7
30°	2414.4	2387.2	2454.5	2539.6	2597.4	2699.5	2756.7	2760.1	2706.3	2577.7	2391.2
32.5°	2044.2	2074.1	2103.9	2208.6	2335.0	2449.6	2563.4	2655.0	2665.5	2579.9	2416.8
35°	1588.3	1625.7	1680.1	1734.6	1870.7	1987.7	2187.8	2362.0	2500.8	2519.2	2419.1
37.5°	1279.9	1298.4	1332.8	1387.4	1476.4	1615.2	1770.0	1990.2	2191.3	2340.9	2347.4
40°	1118.7	1124.2	1163.0	1204.5	1276.6	1390.9	1530.4	1725.0	1965.9	2174.9	2262.0
42.5°	997.9	1009.8	1026.3	1066.2	1123.6	1209.6	1339.3	1500.2	1721.0	1961.4	2131.8
45°	857.4	871.0	881.2	907.8	948.6	1006.4	1097.0	1243.9	1412.0	1660.4	1889.7
47.5°	764.6	765.7	773.3	793.3	821.1	864.5	928.5	1022.9	1177.2	1378.7	1614.1
50°	698.2	709.1	711.8	727.4	749.2	781.2	834.3	914.6	1041.2	1218.1	1434.5
52.5°	651.4	654.6	662.3	673.6	692.6	717.5	763.5	826.4	925.7	1076.5	1275.5
55°	582.5	582.5	590.0	598.8	609.7	632.2	662.8	709.1	784.6	901.7	1066.3
57.5°	518.8	522.2	527.5	530.2	539.5	554.3	579.9	615.0	671.4	761.5	892.4
60°	476.3	482.5	481.8	487.2	495.4	507.0	528.7	557.3	607.7	679.8	790.1
62.5°	439.3	438.9	438.8	445.3	453.5	464.5	478.7	503.4	546.2	610.1	704.0
65°	378.4	377.0	381.8	385.8	388.6	396.7	407.6	429.4	458.0	505.6	578.4
67.5°	324.2	320.2	322.8	324.2	328.8	335.2	345.4	358.9	381.6	419.9	474.7
70°	287.2	283.8	283.1	284.4	288.5	293.3	300.8	313.7	334.8	365.4	405.6
72.5°	249.1	246.7	246.6	249.6	251.5	254.6	259.9	271.8	288.5	311.5	349.0
75°	194.6	194.6	194.6	195.3	197.3	200.1	204.1	210.3	223.2	239.5	264.7
77.5°	145.9	145.8	144.9	144.8	147.8	149.0	150.0	155.7	162.9	173.9	192.3
80°	114.3	110.9	112.3	114.3	115.7	116.4	118.4	119.8	125.9	132.0	144.9
82.5°	84.9	82.1	82.3	85.5	85.7	86.4	88.5	90.4	92.7	98.3	105.2
85°	44.9	44.9	45.6	45.6	46.3	45.6	47.6	48.3	48.3	51.7	55.8
87.5°	18.4	17.4	17.8	18.3	17.8	18.2	18.7	19.2	19.7	20.3	20.6
90°	10.2	10.6	10.2	9.9	10.2	9.5	9.2	8.8	8.5	8.8	7.8
92.5°	17.0	17.7	17.3	18.4	19.0	20.8	23.6	29.8	41.0	54.3	59.8
95°	41.0	42.4	44.9	48.1	54.8	67.5	86.2	127.2	170.0	209.6	186.6
97.5°	111.6	114.6	124.2	140.1	166.2	208.4	254.0	317.1	347.4	324.8	237.8
100°	221.6	221.2	235.0	260.8	296.5	346.7	388.0	416.6	404.3	334.7	226.2
102.5°	325.0	333.2	344.7	365.1	392.9	424.7	448.8	449.7	407.1	316.3	209.2
105°	449.5	451.3	462.6	476.0	492.3	501.4	494.7	459.4	385.5	284.1	188.4
107.5°	521.2	524.4	528.2	532.8	532.5	519.9	488.9	431.5	347.8	255.7	175.1
110°	550.6	551.3	552.0	549.2	539.3	514.5	470.0	405.0	324.1	239.6	170.0



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	556.5	556.4	553.7	544.9	526.8	495.0	445.1	378.7	303.4	228.8	167.1
115°	546.7	544.9	537.8	522.3	495.8	457.3	405.3	343.8	278.5	217.3	166.1
117.5°	515.4	513.0	502.9	485.1	457.4	418.3	371.7	318.6	263.4	210.5	166.7
120°	489.4	487.3	478.8	459.0	431.1	395.4	353.0	305.3	255.5	207.4	167.9
122.5°	465.1	462.4	453.1	435.3	410.5	377.3	338.0	294.9	249.0	205.5	169.8
125°	431.1	428.7	419.8	404.3	381.7	353.4	319.5	280.9	240.7	202.8	172.8
127.5°	403.1	400.9	392.9	379.6	359.5	333.7	303.1	268.8	233.3	201.6	176.2
130°	387.3	384.5	377.1	364.3	345.6	321.6	293.0	261.1	229.3	200.7	178.5
132.5°	371.8	369.8	363.2	350.5	332.9	310.0	283.3	254.1	225.7	200.4	180.2
135°	349.5	347.0	340.7	330.1	312.7	292.6	269.6	244.5	220.9	200.0	182.7
137.5°	326.0	324.3	319.0	308.2	293.7	276.2	256.4	235.8	216.7	199.2	184.4
140°	309.6	309.9	304.3	294.4	280.9	265.7	248.8	230.8	214.1	199.0	185.5
142.5°	294.3	294.6	289.6	280.8	269.3	256.1	241.4	226.0	211.9	198.4	186.4
145°	273.2	272.5	269.6	262.2	253.4	243.1	231.8	220.2	208.8	197.5	186.9
147.5°	255.8	255.5	252.8	247.8	241.1	233.8	224.7	215.4	205.9	196.2	186.9
150°	245.6	245.6	243.5	239.6	234.3	227.6	220.2	212.0	203.9	195.1	186.9
152.5°	237.1	237.1	235.8	232.2	228.1	222.5	215.9	208.9	201.6	193.7	186.1
155°	226.5	226.2	225.5	222.6	219.4	215.2	209.9	204.3	198.2	191.2	185.2
157.5°	216.8	216.9	216.3	214.2	211.5	208.1	204.0	199.3	194.4	189.0	184.0
160°	210.6	211.0	211.0	208.8	206.4	203.9	200.4	196.5	191.9	187.3	183.4
162.5°	205.0	205.3	205.3	203.5	201.9	199.7	196.4	193.1	189.3	185.6	182.3
165°	197.5	197.5	197.9	196.5	195.1	193.3	190.8	188.7	185.9	183.1	180.6
167.5°	190.5	190.5	190.8	189.8	189.2	187.9	186.5	184.9	182.6	180.5	178.9
170°	186.2	186.2	186.6	185.9	185.5	184.8	183.4	182.3	180.6	178.8	177.8
172.5°	182.3	182.6	183.2	182.5	182.4	182.0	180.9	180.1	178.6	177.4	176.9
175°	177.8	178.1	178.5	178.1	178.1	178.1	177.4	177.0	176.3	175.6	175.6
177.5°	175.1	175.1	175.7	175.4	175.7	175.7	175.4	175.1	174.9	174.6	174.9
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1448.1	1443.7	1439.4	1431.8	1425.2	1416.0	1413.2	1410.0	1400.2	1391.5	1384.9
5°	1536.5	1520.2	1496.4	1474.6	1456.9	1433.1	1419.5	1405.2	1384.8	1366.4	1351.5
7.5°	1629.1	1597.0	1560.0	1519.9	1482.7	1446.7	1417.7	1391.9	1363.3	1336.2	1315.1
10°	1702.6	1656.3	1604.6	1548.8	1501.2	1454.9	1416.1	1382.1	1345.3	1313.3	1286.8
12.5°	1786.4	1717.8	1646.5	1578.7	1522.4	1458.2	1411.2	1367.9	1326.3	1287.8	1258.0
15°	1885.6	1798.5	1714.2	1620.9	1535.2	1454.9	1399.1	1344.7	1296.3	1256.9	1218.8
17.5°	1976.0	1877.3	1766.1	1652.8	1549.3	1454.1	1376.0	1314.4	1254.0	1205.7	1167.7
20°	2027.2	1914.9	1789.0	1671.3	1557.0	1450.8	1365.1	1291.6	1226.2	1175.2	1132.3
22.5°	2071.3	1939.9	1809.7	1683.8	1556.4	1442.1	1344.9	1269.3	1198.5	1148.5	1102.9
25°	2117.0	1959.8	1829.2	1681.5	1539.3	1420.9	1312.0	1226.2	1155.5	1097.0	1050.0
27.5°	2156.2	1958.5	1803.4	1644.6	1512.3	1393.6	1277.4	1185.4	1110.3	1046.7	999.1
30°	2182.3	1961.2	1776.8	1619.6	1486.2	1363.7	1250.7	1158.2	1079.3	1014.6	969.7
32.5°	2198.7	1959.5	1752.3	1584.7	1444.8	1336.5	1221.9	1126.1	1045.0	981.4	938.1
35°	2208.2	1947.6	1710.1	1512.7	1378.0	1272.5	1176.6	1077.2	992.2	933.0	884.0
37.5°	2189.1	1922.4	1661.1	1443.3	1295.8	1191.9	1111.2	1026.6	945.2	880.0	837.8
40°	2159.2	1906.1	1623.0	1394.3	1239.2	1139.1	1070.4	987.4	907.1	845.2	805.7
42.5°	2102.0	1872.8	1581.1	1339.9	1180.4	1080.3	1017.1	947.7	871.7	813.6	774.1
45°	1962.5	1800.6	1518.2	1258.2	1093.5	990.1	934.3	884.0	815.2	758.7	724.7
47.5°	1769.0	1691.8	1427.3	1172.1	1002.9	903.4	845.4	804.9	754.7	709.1	676.4
50°	1634.5	1602.6	1365.7	1113.3	942.5	845.2	789.4	752.6	716.6	671.0	641.0
52.5°	1479.4	1499.1	1293.9	1052.3	881.0	785.3	732.8	703.6	670.8	633.4	607.3
55°	1261.0	1332.4	1169.8	950.0	789.4	698.2	648.5	622.6	603.6	575.7	553.2
57.5°	1056.4	1147.3	1035.6	844.5	699.4	620.7	573.1	544.9	532.7	518.1	500.4
60°	935.0	1024.8	939.8	773.7	639.0	564.1	521.9	498.1	485.9	475.7	460.7
62.5°	826.7	917.6	846.1	701.9	579.6	510.2	473.5	450.2	440.7	435.4	422.6
65°	677.8	756.0	708.4	590.0	494.7	433.5	400.1	383.8	375.0	372.9	364.7
67.5°	551.6	611.2	576.5	489.4	414.4	361.5	333.2	319.3	312.5	311.8	305.7
70°	468.9	524.7	498.1	419.2	354.5	313.0	288.5	276.3	272.2	271.5	268.1
72.5°	404.6	443.5	422.4	356.6	306.6	268.9	251.0	238.2	233.5	234.5	232.2
75°	299.4	328.7	316.4	270.8	230.7	206.2	191.2	183.1	179.0	181.0	178.3
77.5°	215.4	234.0	222.9	191.4	166.6	148.9	137.9	132.8	129.2	129.0	127.8
80°	162.6	173.5	167.4	148.3	127.9	113.0	104.1	100.7	98.7	98.0	97.3
82.5°	115.8	125.1	117.9	104.8	90.9	81.9	76.9	72.4	70.9	71.3	70.6
85°	58.5	61.9	59.2	51.0	45.6	41.5	38.8	36.7	35.4	36.1	34.7
87.5°	21.5	21.8	20.0	17.7	16.4	14.6	14.4	13.2	12.3	12.4	12.1
90°	6.7	5.7	4.6	3.9	3.2	2.1	1.4	0.7	1.4	2.1	3.2
92.5°	44.9	29.7	20.4	15.2	12.2	9.5	6.5	4.4	6.5	9.5	12.2
95°	128.6	76.0	45.9	32.2	23.0	17.0	13.1	12.0	13.1	17.0	23.0
97.5°	141.1	81.8	53.1	38.2	29.1	23.9	20.8	20.5	20.8	23.9	29.1
100°	133.2	80.9	56.2	42.4	33.9	29.0	26.5	26.2	26.5	29.0	33.9
102.5°	126.4	82.1	59.9	47.2	39.6	34.9	32.7	32.1	32.7	34.9	39.6
105°	121.6	85.2	66.1	55.1	48.4	44.2	42.1	41.0	42.1	44.2	48.4
107.5°	121.2	91.0	74.2	64.0	57.7	53.6	51.5	50.5	51.5	53.6	57.7
110°	122.6	95.8	79.9	70.0	64.0	60.1	58.3	57.2	58.3	60.1	64.0





TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	125.5	100.6	85.8	76.2	70.2	66.3	64.5	63.5	64.5	66.3	70.2
115°	130.0	108.5	95.1	85.5	79.5	76.0	73.9	72.4	73.9	76.0	79.5
117.5°	136.1	116.9	103.6	94.8	88.1	84.8	83.0	81.4	83.0	84.8	88.1
120°	140.6	122.3	109.5	100.7	94.0	90.5	88.7	87.6	88.7	90.5	94.0
122.5°	144.9	127.9	115.5	106.1	99.7	95.8	94.1	93.0	94.1	95.8	99.7
125°	151.6	136.1	123.7	114.1	107.4	103.5	101.4	100.7	101.4	103.5	107.4
127.5°	157.1	143.1	131.2	121.6	114.2	110.3	107.6	106.6	107.6	110.3	114.2
130°	160.8	147.4	135.7	126.2	118.7	114.5	111.3	110.3	111.3	114.5	118.7
132.5°	164.2	151.0	139.7	130.4	123.0	117.9	114.4	113.1	114.4	117.9	123.0
135°	168.6	156.5	145.6	136.1	128.6	123.3	119.4	118.0	119.4	123.3	128.6
137.5°	171.8	160.4	149.8	141.0	133.6	128.0	124.2	122.7	124.2	128.0	133.6
140°	173.5	162.9	152.7	143.8	136.8	131.1	127.6	125.8	127.6	131.1	136.8
142.5°	175.2	164.9	154.9	146.7	139.6	134.5	130.7	129.2	130.7	134.5	139.6
145°	177.0	167.5	158.3	150.2	144.2	138.9	135.7	134.6	135.7	138.9	144.2
147.5°	178.2	169.6	161.2	154.3	148.5	143.9	140.8	140.2	140.8	143.9	148.5
150°	178.5	171.0	162.9	156.5	151.6	147.0	144.2	143.8	144.2	147.0	151.6
152.5°	179.0	171.9	164.9	158.8	154.4	150.4	147.6	147.5	147.6	150.4	154.4
155°	179.2	173.5	167.5	162.6	158.7	155.1	153.0	153.0	153.0	155.1	158.7
157.5°	179.5	174.4	169.6	165.8	162.5	159.4	157.7	157.4	157.7	159.4	162.5
160°	179.5	175.3	171.0	167.5	165.0	162.2	160.8	160.8	160.8	162.2	165.0
162.5°	179.2	175.6	171.9	168.9	166.7	164.5	163.3	163.3	163.3	164.5	166.7
165°	178.5	176.0	173.2	170.7	169.3	167.5	166.8	167.1	166.8	167.5	169.3
167.5°	177.9	175.9	173.9	172.3	171.3	170.0	169.6	170.0	169.6	170.0	171.3
170°	177.0	175.6	173.9	173.2	172.4	171.4	171.0	171.7	171.0	171.4	172.4
172.5°	176.8	175.6	174.1	173.7	173.3	172.5	172.4	172.9	172.4	172.5	173.3
175°	176.0	175.3	174.6	174.2	174.2	173.5	173.9	174.2	173.9	173.5	174.2
177.5°	175.4	174.9	174.6	174.6	174.6	174.3	174.6	174.9	174.6	174.3	174.6
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1381.1	1377.3	1371.9	1363.7	1357.2	1346.8	1346.8	1348.5	1348.5	1347.9	1346.8
5°	1339.2	1329.0	1316.8	1302.5	1287.5	1272.5	1269.8	1264.4	1260.3	1257.5	1254.1
7.5°	1295.0	1276.9	1259.0	1239.0	1220.8	1205.7	1195.2	1186.5	1180.9	1174.9	1170.6
10°	1265.0	1242.6	1221.5	1200.4	1177.2	1158.9	1147.3	1139.1	1133.0	1127.6	1124.9
12.5°	1229.6	1203.9	1180.7	1160.6	1135.3	1116.4	1105.4	1101.6	1094.4	1082.9	1076.9
15°	1177.9	1154.1	1126.2	1095.6	1083.3	1060.2	1047.3	1041.2	1037.1	1028.2	1025.5
17.5°	1133.7	1102.5	1071.2	1048.4	1025.6	1006.9	999.6	992.0	986.6	979.4	977.2
20°	1098.3	1070.4	1041.8	1017.3	993.5	973.1	967.0	961.5	956.1	952.7	950.0
22.5°	1062.4	1034.5	1010.8	987.9	962.5	949.1	942.5	936.5	932.7	930.4	927.6
25°	1011.9	987.4	960.9	940.4	920.0	911.2	907.1	903.7	901.0	897.6	896.9
27.5°	966.7	940.0	918.5	899.5	884.8	877.4	873.5	871.8	872.4	873.6	874.4
30°	933.0	908.5	890.8	874.4	860.8	854.0	853.3	853.3	856.1	856.7	858.1
32.5°	901.9	881.8	864.1	848.3	838.0	833.3	835.9	835.9	838.1	839.9	842.3
35°	856.7	839.0	825.4	811.8	803.0	805.0	806.4	807.7	811.1	815.2	818.0
37.5°	813.6	798.2	784.1	773.4	769.4	773.0	776.3	779.2	783.1	786.2	789.0
40°	782.6	771.0	757.4	747.9	749.2	751.3	754.0	757.4	760.8	762.8	765.6
42.5°	753.7	741.6	731.3	723.4	725.3	727.9	729.5	731.3	735.2	738.9	740.5
45°	709.8	700.2	690.7	685.9	687.3	688.7	690.0	692.1	695.5	698.2	698.9
47.5°	660.3	653.7	647.3	642.7	644.8	644.3	646.1	650.4	651.5	653.1	656.9
50°	628.8	622.6	615.2	613.8	613.8	613.8	614.5	619.9	619.9	622.6	625.4
52.5°	593.9	590.0	585.2	582.8	581.7	581.7	584.5	587.3	588.4	592.2	594.9
55°	542.4	538.3	534.2	532.1	530.8	532.1	537.6	538.9	542.4	544.4	546.4
57.5°	488.6	485.5	482.2	481.1	480.8	482.6	485.6	489.7	490.5	496.8	499.9
60°	453.2	448.4	445.7	445.7	444.4	450.5	449.1	455.9	457.3	461.4	466.1
62.5°	416.7	410.3	409.2	409.2	411.2	412.9	414.8	417.8	421.4	426.5	430.2
65°	357.9	354.5	359.3	358.6	357.3	361.3	361.3	364.7	368.8	373.6	381.1
67.5°	302.3	300.5	300.9	300.9	303.0	305.3	307.2	310.2	315.1	320.1	325.0
70°	264.7	266.8	263.4	266.1	268.1	268.8	270.2	274.2	279.7	283.1	288.5
72.5°	228.2	228.1	228.5	229.6	231.6	232.9	234.2	238.9	244.8	247.7	252.1
75°	175.6	174.9	176.9	176.9	180.3	181.7	183.1	185.1	190.5	194.6	198.0
77.5°	128.2	129.0	128.6	130.9	130.0	130.2	134.5	136.5	137.1	145.1	146.9
80°	96.6	98.0	98.7	99.4	100.0	98.7	103.4	105.5	105.5	110.2	113.6
82.5°	69.4	70.2	72.0	72.7	72.8	74.2	74.6	76.1	77.7	79.8	84.2
85°	34.7	36.7	37.4	36.7	37.4	36.1	38.1	38.8	39.5	39.5	39.5
87.5°	11.7	12.4	12.0	12.8	12.4	13.2	13.1	12.1	12.2	13.9	11.8
90°	3.9	4.6	5.7	6.7	7.8	8.8	8.5	8.8	9.2	9.5	10.2
92.5°	15.2	20.4	29.7	44.9	59.8	54.3	41.0	29.8	23.6	20.8	19.0
95°	32.2	45.9	76.0	128.6	186.6	209.6	170.0	127.2	86.2	67.5	54.8
97.5°	38.2	53.1	81.8	141.1	237.8	324.8	347.4	317.1	254.0	208.4	166.2
100°	42.4	56.2	80.9	133.2	226.2	334.7	404.3	416.6	388.0	346.7	296.5
102.5°	47.2	59.9	82.1	126.4	209.2	316.3	407.1	449.7	448.8	424.7	392.9
105°	55.1	66.1	85.2	121.6	188.4	284.1	385.5	459.4	494.7	501.4	492.3
107.5°	64.0	74.2	91.0	121.2	175.1	255.7	347.8	431.5	488.9	519.9	532.5
110°	70.0	79.9	95.8	122.6	170.0	239.6	324.1	405.0	470.0	514.5	539.3



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	76.2	85.8	100.6	125.5	167.1	228.8	303.4	378.7	445.1	495.0	526.8
115°	85.5	95.1	108.5	130.0	166.1	217.3	278.5	343.8	405.3	457.3	495.8
117.5°	94.8	103.6	116.9	136.1	166.7	210.5	263.4	318.6	371.7	418.3	457.4
120°	100.7	109.5	122.3	140.6	167.9	207.4	255.5	305.3	353.0	395.4	431.1
122.5°	106.1	115.5	127.9	144.9	169.8	205.5	249.0	294.9	338.0	377.3	410.5
125°	114.1	123.7	136.1	151.6	172.8	202.8	240.7	280.9	319.5	353.4	381.7
127.5°	121.6	131.2	143.1	157.1	176.2	201.6	233.3	268.8	303.1	333.7	359.5
130°	126.2	135.7	147.4	160.8	178.5	200.7	229.3	261.1	293.0	321.6	345.6
132.5°	130.4	139.7	151.0	164.2	180.2	200.4	225.7	254.1	283.3	310.0	332.9
135°	136.1	145.6	156.5	168.6	182.7	200.0	220.9	244.5	269.6	292.6	312.7
137.5°	141.0	149.8	160.4	171.8	184.4	199.2	216.7	235.8	256.4	276.2	293.7
140°	143.8	152.7	162.9	173.5	185.5	199.0	214.1	230.8	248.8	265.7	280.9
142.5°	146.7	154.9	164.9	175.2	186.4	198.4	211.9	226.0	241.4	256.1	269.3
145°	150.2	158.3	167.5	177.0	186.9	197.5	208.8	220.2	231.8	243.1	253.4
147.5°	154.3	161.2	169.6	178.2	186.9	196.2	205.9	215.4	224.7	233.8	241.1
150°	156.5	162.9	171.0	178.5	186.9	195.1	203.9	212.0	220.2	227.6	234.3
152.5°	158.8	164.9	171.9	179.0	186.1	193.7	201.6	208.9	215.9	222.5	228.1
155°	162.6	167.5	173.5	179.2	185.2	191.2	198.2	204.3	209.9	215.2	219.4
157.5°	165.8	169.6	174.4	179.5	184.0	189.0	194.4	199.3	204.0	208.1	211.5
160°	167.5	171.0	175.3	179.5	183.4	187.3	191.9	196.5	200.4	203.9	206.4
162.5°	168.9	171.9	175.6	179.2	182.3	185.6	189.3	193.1	196.4	199.7	201.9
165°	170.7	173.2	176.0	178.5	180.6	183.1	185.9	188.7	190.8	193.3	195.1
167.5°	172.3	173.9	175.9	177.9	178.9	180.5	182.6	184.9	186.5	187.9	189.2
170°	173.2	173.9	175.6	177.0	177.8	178.8	180.6	182.3	183.4	184.8	185.5
172.5°	173.7	174.1	175.6	176.8	176.9	177.4	178.6	180.1	180.9	182.0	182.4
175°	174.2	174.6	175.3	176.0	175.6	175.6	176.3	177.0	177.4	178.1	178.1
177.5°	174.6	174.6	174.9	175.4	174.9	174.6	174.9	175.1	175.4	175.7	175.7
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1343.0	1342.5	1346.3	1343.6	1346.3	1342.5	1343.0	1346.8	1347.9	1348.5	1348.5
5°	1250.1	1252.1	1245.3	1245.3	1245.3	1252.1	1250.1	1254.1	1257.5	1260.3	1264.4
7.5°	1167.3	1164.3	1164.6	1160.9	1164.6	1164.3	1167.3	1170.6	1174.9	1180.9	1186.5
10°	1116.7	1112.6	1111.2	1111.9	1111.2	1112.6	1116.7	1124.9	1127.6	1133.0	1139.1
12.5°	1074.8	1074.0	1065.0	1065.1	1065.0	1074.0	1074.8	1076.9	1082.9	1094.4	1101.6
15°	1025.5	1012.6	1011.2	1015.3	1011.2	1012.6	1025.5	1025.5	1028.2	1037.1	1041.2
17.5°	976.1	969.3	969.7	967.7	969.7	969.3	976.1	977.2	979.4	986.6	992.0
20°	950.0	945.9	945.2	940.4	945.2	945.9	950.0	950.0	952.7	956.1	961.5
22.5°	926.0	924.7	925.1	919.8	925.1	924.7	926.0	927.6	930.4	932.7	936.5
25°	896.2	899.6	896.9	896.9	896.9	899.6	896.2	896.9	897.6	901.0	903.7
27.5°	876.1	875.9	874.6	874.6	874.6	875.9	876.1	874.4	873.6	872.4	871.8
30°	860.8	860.1	861.5	861.5	861.5	860.1	860.8	858.1	856.7	856.1	853.3
32.5°	845.6	846.5	846.8	847.3	846.8	846.5	845.6	842.3	839.9	838.1	835.9
35°	822.0	822.7	824.8	823.4	824.8	822.7	822.0	818.0	815.2	811.1	807.7
37.5°	790.2	793.3	792.6	793.7	792.6	793.3	790.2	789.0	786.2	783.1	779.2
40°	766.2	768.3	767.6	767.6	767.6	768.3	766.2	765.6	762.8	760.8	757.4
42.5°	741.7	743.2	741.5	740.4	741.5	743.2	741.7	740.5	738.9	735.2	731.3
45°	701.6	700.2	702.3	699.5	702.3	700.2	701.6	698.9	698.2	695.5	692.1
47.5°	656.7	658.0	658.6	660.6	658.6	658.0	656.7	656.9	653.1	651.5	650.4
50°	626.7	630.8	630.8	630.1	630.8	630.8	626.7	625.4	622.6	619.9	619.9
52.5°	597.3	599.2	602.0	601.8	602.0	599.2	597.3	594.9	592.2	588.4	587.3
55°	551.9	553.2	554.6	555.3	554.6	553.2	551.9	546.4	544.4	542.4	538.9
57.5°	504.8	504.2	507.5	508.5	507.5	504.2	504.8	499.9	496.8	490.5	489.7
60°	471.6	471.6	477.0	479.1	477.0	471.6	471.6	466.1	461.4	457.3	455.9
62.5°	436.2	438.4	443.8	441.0	443.8	438.4	436.2	430.2	426.5	421.4	417.8
65°	384.5	389.9	389.2	392.0	389.2	389.9	384.5	381.1	373.6	368.8	364.7
67.5°	330.4	333.8	338.7	339.2	338.7	333.8	330.4	325.0	320.1	315.1	310.2
70°	294.0	297.4	300.1	302.1	300.1	297.4	294.0	288.5	283.1	279.7	274.2
72.5°	258.6	260.4	266.9	264.0	266.9	260.4	258.6	252.1	247.7	244.8	238.9
75°	202.8	207.5	211.6	209.6	211.6	207.5	202.8	198.0	194.6	190.5	185.1
77.5°	150.0	154.7	156.6	154.9	156.6	154.7	150.0	146.9	145.1	137.1	136.5
80°	118.4	117.7	121.8	121.1	121.8	117.7	118.4	113.6	110.2	105.5	105.5
82.5°	86.8	86.2	88.1	88.5	88.1	86.2	86.8	84.2	79.8	77.7	76.1
85°	42.2	44.2	41.5	40.8	41.5	44.2	42.2	39.5	39.5	39.5	38.8
87.5°	11.8	11.8	11.4	10.8	11.4	11.8	11.8	11.8	13.9	12.2	12.1
90°	9.9	10.2	10.6	10.2	10.6	10.2	9.9	10.2	9.5	9.2	8.8
92.5°	18.4	17.3	17.7	17.0	17.7	17.3	18.4	19.0	20.8	23.6	29.8
95°	48.1	44.9	42.4	41.0	42.4	44.9	48.1	54.8	67.5	86.2	127.2
97.5°	140.1	124.2	114.6	111.6	114.6	124.2	140.1	166.2	208.4	254.0	317.1
100°	260.8	235.0	221.2	221.6	221.2	235.0	260.8	296.5	346.7	388.0	416.6
102.5°	365.1	344.7	333.2	325.0	333.2	344.7	365.1	392.9	424.7	448.8	449.7
105°	476.0	462.6	451.3	449.5	451.3	462.6	476.0	492.3	501.4	494.7	459.4
107.5°	532.8	528.2	524.4	521.2	524.4	528.2	532.8	532.5	519.9	488.9	431.5
110°	549.2	552.0	551.3	550.6	551.3	552.0	549.2	539.3	514.5	470.0	405.0



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	544.9	553.7	556.4	556.5	556.4	553.7	544.9	526.8	495.0	445.1	378.7
115°	522.3	537.8	544.9	546.7	544.9	537.8	522.3	495.8	457.3	405.3	343.8
117.5°	485.1	502.9	513.0	515.4	513.0	502.9	485.1	457.4	418.3	371.7	318.6
120°	459.0	478.8	487.3	489.4	487.3	478.8	459.0	431.1	395.4	353.0	305.3
122.5°	435.3	453.1	462.4	465.1	462.4	453.1	435.3	410.5	377.3	338.0	294.9
125°	404.3	419.8	428.7	431.1	428.7	419.8	404.3	381.7	353.4	319.5	280.9
127.5°	379.6	392.9	400.9	403.1	400.9	392.9	379.6	359.5	333.7	303.1	268.8
130°	364.3	377.1	384.5	387.3	384.5	377.1	364.3	345.6	321.6	293.0	261.1
132.5°	350.5	363.2	369.8	371.8	369.8	363.2	350.5	332.9	310.0	283.3	254.1
135°	330.1	340.7	347.0	349.5	347.0	340.7	330.1	312.7	292.6	269.6	244.5
137.5°	308.2	319.0	324.3	326.0	324.3	319.0	308.2	293.7	276.2	256.4	235.8
140°	294.4	304.3	309.9	309.6	309.9	304.3	294.4	280.9	265.7	248.8	230.8
142.5°	280.8	289.6	294.6	294.3	294.6	289.6	280.8	269.3	256.1	241.4	226.0
145°	262.2	269.6	272.5	273.2	272.5	269.6	262.2	253.4	243.1	231.8	220.2
147.5°	247.8	252.8	255.5	255.8	255.5	252.8	247.8	241.1	233.8	224.7	215.4
150°	239.6	243.5	245.6	245.6	245.6	243.5	239.6	234.3	227.6	220.2	212.0
152.5°	232.2	235.8	237.1	237.1	237.1	235.8	232.2	228.1	222.5	215.9	208.9
155°	222.6	225.5	226.2	226.5	226.2	225.5	222.6	219.4	215.2	209.9	204.3
157.5°	214.2	216.3	216.9	216.8	216.9	216.3	214.2	211.5	208.1	204.0	199.3
160°	208.8	211.0	211.0	210.6	211.0	211.0	208.8	206.4	203.9	200.4	196.5
162.5°	203.5	205.3	205.3	205.0	205.3	205.3	203.5	201.9	199.7	196.4	193.1
165°	196.5	197.9	197.5	197.5	197.5	197.9	196.5	195.1	193.3	190.8	188.7
167.5°	189.8	190.8	190.5	190.5	190.5	190.8	189.8	189.2	187.9	186.5	184.9
170°	185.9	186.6	186.2	186.2	186.2	186.6	185.9	185.5	184.8	183.4	182.3
172.5°	182.5	183.2	182.6	182.3	182.6	183.2	182.5	182.4	182.0	180.9	180.1
175°	178.1	178.5	178.1	177.8	178.1	178.5	178.1	178.1	178.1	177.4	177.0
177.5°	175.4	175.7	175.1	175.1	175.1	175.7	175.4	175.7	175.7	175.4	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1346.8	1346.8	1357.2	1363.7	1371.9	1377.3	1381.1	1384.9	1391.5	1400.2	1410.0
5°	1269.8	1272.5	1287.5	1302.5	1316.8	1329.0	1339.2	1351.5	1366.4	1384.8	1405.2
7.5°	1195.2	1205.7	1220.8	1239.0	1259.0	1276.9	1295.0	1315.1	1336.2	1363.3	1391.9
10°	1147.3	1158.9	1177.2	1200.4	1221.5	1242.6	1265.0	1286.8	1313.3	1345.3	1382.1
12.5°	1105.4	1116.4	1135.3	1160.6	1180.7	1203.9	1229.6	1258.0	1287.8	1326.3	1367.9
15°	1047.3	1060.2	1083.3	1095.6	1126.2	1154.1	1177.9	1218.8	1256.9	1296.3	1344.7
17.5°	999.6	1006.9	1025.6	1048.4	1071.2	1102.5	1133.7	1167.7	1205.7	1254.0	1314.4
20°	967.0	973.1	993.5	1017.3	1041.8	1070.4	1098.3	1132.3	1175.2	1226.2	1291.6
22.5°	942.5	949.1	962.5	987.9	1010.8	1034.5	1062.4	1102.9	1148.5	1198.5	1269.3
25°	907.1	911.2	920.0	940.4	960.9	987.4	1011.9	1050.0	1097.0	1155.5	1226.2
27.5°	873.5	877.4	884.8	899.5	918.5	940.0	966.7	999.1	1046.7	1110.3	1185.4
30°	853.3	854.0	860.8	874.4	890.8	908.5	933.0	969.7	1014.6	1079.3	1158.2
32.5°	835.9	833.3	838.0	848.3	864.1	881.8	901.9	938.1	981.4	1045.0	1126.1
35°	806.4	805.0	803.0	811.8	825.4	839.0	856.7	884.0	933.0	992.2	1077.2
37.5°	776.3	773.0	769.4	773.4	784.1	798.2	813.6	837.8	880.0	945.2	1026.6
40°	754.0	751.3	749.2	747.9	757.4	771.0	782.6	805.7	845.2	907.1	987.4
42.5°	729.5	727.9	725.3	723.4	731.3	741.6	753.7	774.1	813.6	871.7	947.7
45°	690.0	688.7	687.3	685.9	690.7	700.2	709.8	724.7	758.7	815.2	884.0
47.5°	646.1	644.3	644.8	642.7	647.3	653.7	660.3	676.4	709.1	754.7	804.9
50°	614.5	613.8	613.8	613.8	615.2	622.6	628.8	641.0	671.0	716.6	752.6
52.5°	584.5	581.7	581.7	582.8	585.2	590.0	593.9	607.3	633.4	670.8	703.6
55°	537.6	532.1	530.8	532.1	534.2	538.3	542.4	553.2	575.7	603.6	622.6
57.5°	485.6	482.6	480.8	481.1	482.2	485.5	488.6	500.4	518.1	532.7	544.9
60°	449.1	450.5	444.4	445.7	445.7	448.4	453.2	460.7	475.7	485.9	498.1
62.5°	414.8	412.9	411.2	409.2	409.2	410.3	416.7	422.6	435.4	440.7	450.2
65°	361.3	361.3	357.3	358.6	359.3	354.5	357.9	364.7	372.9	375.0	383.8
67.5°	307.2	305.3	303.0	300.9	300.9	300.5	302.3	305.7	311.8	312.5	319.3
70°	270.2	268.8	268.1	266.1	263.4	266.8	264.7	268.1	271.5	272.2	276.3
72.5°	234.2	232.9	231.6	229.6	228.5	228.1	228.2	232.2	234.5	233.5	238.2
75°	183.1	181.7	180.3	176.9	176.9	174.9	175.6	178.3	181.0	179.0	183.1
77.5°	134.5	130.2	130.0	130.9	128.6	129.0	128.2	127.8	129.0	129.2	132.8
80°	103.4	98.7	100.0	99.4	98.7	98.0	96.6	97.3	98.0	98.7	100.7
82.5°	74.6	74.2	72.8	72.7	72.0	70.2	69.4	70.6	71.3	70.9	72.4
85°	38.1	36.1	37.4	36.7	37.4	36.7	34.7	34.7	36.1	35.4	36.7
87.5°	13.1	13.2	12.4	12.8	12.0	12.4	11.7	12.1	12.4	12.3	13.2
90°	8.5	8.8	7.8	6.7	5.7	4.6	3.9	3.2	2.1	1.4	0.7
92.5°	41.0	54.3	59.8	44.9	29.7	20.4	15.2	12.2	9.5	6.5	4.4
95°	170.0	209.6	186.6	128.6	76.0	45.9	32.2	23.0	17.0	13.1	12.0
97.5°	347.4	324.8	237.8	141.1	81.8	53.1	38.2	29.1	23.9	20.8	20.5
100°	404.3	334.7	226.2	133.2	80.9	56.2	42.4	33.9	29.0	26.5	26.2
102.5°	407.1	316.3	209.2	126.4	82.1	59.9	47.2	39.6	34.9	32.7	32.1
105°	385.5	284.1	188.4	121.6	85.2	66.1	55.1	48.4	44.2	42.1	41.0
107.5°	347.8	255.7	175.1	121.2	91.0	74.2	64.0	57.7	53.6	51.5	50.5
110°	324.1	239.6	170.0	122.6	95.8	79.9	70.0	64.0	60.1	58.3	57.2



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.4	228.8	167.1	125.5	100.6	85.8	76.2	70.2	66.3	64.5	63.5
115°	278.5	217.3	166.1	130.0	108.5	95.1	85.5	79.5	76.0	73.9	72.4
117.5°	263.4	210.5	166.7	136.1	116.9	103.6	94.8	88.1	84.8	83.0	81.4
120°	255.5	207.4	167.9	140.6	122.3	109.5	100.7	94.0	90.5	88.7	87.6
122.5°	249.0	205.5	169.8	144.9	127.9	115.5	106.1	99.7	95.8	94.1	93.0
125°	240.7	202.8	172.8	151.6	136.1	123.7	114.1	107.4	103.5	101.4	100.7
127.5°	233.3	201.6	176.2	157.1	143.1	131.2	121.6	114.2	110.3	107.6	106.6
130°	229.3	200.7	178.5	160.8	147.4	135.7	126.2	118.7	114.5	111.3	110.3
132.5°	225.7	200.4	180.2	164.2	151.0	139.7	130.4	123.0	117.9	114.4	113.1
135°	220.9	200.0	182.7	168.6	156.5	145.6	136.1	128.6	123.3	119.4	118.0
137.5°	216.7	199.2	184.4	171.8	160.4	149.8	141.0	133.6	128.0	124.2	122.7
140°	214.1	199.0	185.5	173.5	162.9	152.7	143.8	136.8	131.1	127.6	125.8
142.5°	211.9	198.4	186.4	175.2	164.9	154.9	146.7	139.6	134.5	130.7	129.2
145°	208.8	197.5	186.9	177.0	167.5	158.3	150.2	144.2	138.9	135.7	134.6
147.5°	205.9	196.2	186.9	178.2	169.6	161.2	154.3	148.5	143.9	140.8	140.2
150°	203.9	195.1	186.9	178.5	171.0	162.9	156.5	151.6	147.0	144.2	143.8
152.5°	201.6	193.7	186.1	179.0	171.9	164.9	158.8	154.4	150.4	147.6	147.5
155°	198.2	191.2	185.2	179.2	173.5	167.5	162.6	158.7	155.1	153.0	153.0
157.5°	194.4	189.0	184.0	179.5	174.4	169.6	165.8	162.5	159.4	157.7	157.4
160°	191.9	187.3	183.4	179.5	175.3	171.0	167.5	165.0	162.2	160.8	160.8
162.5°	189.3	185.6	182.3	179.2	175.6	171.9	168.9	166.7	164.5	163.3	163.3
165°	185.9	183.1	180.6	178.5	176.0	173.2	170.7	169.3	167.5	166.8	167.1
167.5°	182.6	180.5	178.9	177.9	175.9	173.9	172.3	171.3	170.0	169.6	170.0
170°	180.6	178.8	177.8	177.0	175.6	173.9	173.2	172.4	171.4	171.0	171.7
172.5°	178.6	177.4	176.9	176.8	175.6	174.1	173.7	173.3	172.5	172.4	172.9
175°	176.3	175.6	175.6	176.0	175.3	174.6	174.2	174.2	173.5	173.9	174.2
177.5°	174.9	174.6	174.9	175.4	174.9	174.6	174.6	174.6	174.3	174.6	174.9
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1413.2	1416.0	1425.2	1431.8	1439.4	1443.7	1448.1	1451.4	1455.7	1456.8	1472.6
5°	1419.5	1433.1	1456.9	1474.6	1496.4	1520.2	1536.5	1544.0	1563.8	1580.1	1612.8
7.5°	1417.7	1446.7	1482.7	1519.9	1560.0	1597.0	1629.1	1667.2	1694.3	1735.0	1775.1
10°	1416.1	1454.9	1501.2	1548.8	1604.6	1656.3	1702.6	1754.3	1797.2	1853.7	1902.0
12.5°	1411.2	1458.2	1522.4	1578.7	1646.5	1717.8	1786.4	1852.8	1890.8	1984.9	2029.4
15°	1399.1	1454.9	1535.2	1620.9	1714.2	1798.5	1885.6	1955.1	2067.3	2149.7	2202.1
17.5°	1376.0	1454.1	1549.3	1652.8	1766.1	1877.3	1976.0	2081.4	2200.4	2300.1	2406.2
20°	1365.1	1450.8	1557.0	1671.3	1789.0	1914.9	2027.2	2153.8	2283.7	2381.7	2517.8
22.5°	1344.9	1442.1	1556.4	1683.8	1809.7	1939.9	2071.3	2198.9	2349.1	2484.1	2613.6
25°	1312.0	1420.9	1539.3	1681.5	1829.2	1959.8	2117.0	2286.5	2443.0	2616.5	2745.8
27.5°	1277.4	1393.6	1512.3	1644.6	1803.4	1958.5	2156.2	2347.7	2539.0	2688.9	2784.6
30°	1250.7	1363.7	1486.2	1619.6	1776.8	1961.2	2182.3	2391.2	2577.7	2706.3	2760.1
32.5°	1221.9	1336.5	1444.8	1584.7	1752.3	1959.5	2198.7	2416.8	2579.9	2665.5	2655.0
35°	1176.6	1272.5	1378.0	1512.7	1710.1	1947.6	2208.2	2419.1	2519.2	2500.8	2362.0
37.5°	1111.2	1191.9	1295.8	1443.3	1661.1	1922.4	2189.1	2347.4	2340.9	2191.3	1990.2
40°	1070.4	1139.1	1239.2	1394.3	1623.0	1906.1	2159.2	2262.0	2174.9	1965.9	1725.0
42.5°	1017.1	1080.3	1180.4	1339.9	1581.1	1872.8	2102.0	2131.8	1961.4	1721.0	1500.2
45°	934.3	990.1	1093.5	1258.2	1518.2	1800.6	1962.5	1889.7	1660.4	1412.0	1243.9
47.5°	845.4	903.4	1002.9	1172.1	1427.3	1691.8	1769.0	1614.1	1378.7	1177.2	1022.9
50°	789.4	845.2	942.5	1113.3	1365.7	1602.6	1634.5	1434.5	1218.1	1041.2	914.6
52.5°	732.8	785.3	881.0	1052.3	1293.9	1499.1	1479.4	1275.5	1076.5	925.7	826.4
55°	648.5	698.2	789.4	950.0	1169.8	1332.4	1261.0	1066.3	901.7	784.6	709.1
57.5°	573.1	620.7	699.4	844.5	1035.6	1147.3	1056.4	892.4	761.5	671.4	615.0
60°	521.9	564.1	639.0	773.7	939.8	1024.8	935.0	790.1	679.8	607.7	557.3
62.5°	473.5	510.2	579.6	701.9	846.1	917.6	826.7	704.0	610.1	546.2	503.4
65°	400.1	433.5	494.7	590.0	708.4	756.0	677.8	578.4	505.6	458.0	429.4
67.5°	333.2	361.5	414.4	489.4	576.5	611.2	551.6	474.7	419.9	381.6	358.9
70°	288.5	313.0	354.5	419.2	498.1	524.7	468.9	405.6	365.4	334.8	313.7
72.5°	251.0	268.9	306.6	356.6	422.4	443.5	404.6	349.0	311.5	288.5	271.8
75°	191.2	206.2	230.7	270.8	316.4	328.7	299.4	264.7	239.5	223.2	210.3
77.5°	137.9	148.9	166.6	191.4	222.9	234.0	215.4	192.3	173.9	162.9	155.7
80°	104.1	113.0	127.9	148.3	167.4	173.5	162.6	144.9	132.0	125.9	119.8
82.5°	76.9	81.9	90.9	104.8	117.9	125.1	115.8	105.2	98.3	92.7	90.4
85°	38.8	41.5	45.6	51.0	59.2	61.9	58.5	55.8	51.7	48.3	48.3
87.5°	14.4	14.6	16.4	17.7	20.0	21.8	21.5	20.6	20.3	19.7	19.2
90°	1.4	2.1	3.2	3.9	4.6	5.7	6.7	7.8	8.8	8.5	8.8
92.5°	6.5	9.5	12.2	15.2	20.4	29.7	44.9	59.8	54.3	41.0	29.8
95°	13.1	17.0	23.0	32.2	45.9	76.0	128.6	186.6	209.6	170.0	127.2
97.5°	20.8	23.9	29.1	38.2	53.1	81.8	141.1	237.8	324.8	347.4	317.1
100°	26.5	29.0	33.9	42.4	56.2	80.9	133.2	226.2	334.7	404.3	416.6
102.5°	32.7	34.9	39.6	47.2	59.9	82.1	126.4	209.2	316.3	407.1	449.7
105°	42.1	44.2	48.4	55.1	66.1	85.2	121.6	188.4	284.1	385.5	459.4
107.5°	51.5	53.6	57.7	64.0	74.2	91.0	121.2	175.1	255.7	347.8	431.5
110°	58.3	60.1	64.0	70.0	79.9	95.8	122.6	170.0	239.6	324.1	405.0





TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	64.5	66.3	70.2	76.2	85.8	100.6	125.5	167.1	228.8	303.4	378.7
115°	73.9	76.0	79.5	85.5	95.1	108.5	130.0	166.1	217.3	278.5	343.8
117.5°	83.0	84.8	88.1	94.8	103.6	116.9	136.1	166.7	210.5	263.4	318.6
120°	88.7	90.5	94.0	100.7	109.5	122.3	140.6	167.9	207.4	255.5	305.3
122.5°	94.1	95.8	99.7	106.1	115.5	127.9	144.9	169.8	205.5	249.0	294.9
125°	101.4	103.5	107.4	114.1	123.7	136.1	151.6	172.8	202.8	240.7	280.9
127.5°	107.6	110.3	114.2	121.6	131.2	143.1	157.1	176.2	201.6	233.3	268.8
130°	111.3	114.5	118.7	126.2	135.7	147.4	160.8	178.5	200.7	229.3	261.1
132.5°	114.4	117.9	123.0	130.4	139.7	151.0	164.2	180.2	200.4	225.7	254.1
135°	119.4	123.3	128.6	136.1	145.6	156.5	168.6	182.7	200.0	220.9	244.5
137.5°	124.2	128.0	133.6	141.0	149.8	160.4	171.8	184.4	199.2	216.7	235.8
140°	127.6	131.1	136.8	143.8	152.7	162.9	173.5	185.5	199.0	214.1	230.8
142.5°	130.7	134.5	139.6	146.7	154.9	164.9	175.2	186.4	198.4	211.9	226.0
145°	135.7	138.9	144.2	150.2	158.3	167.5	177.0	186.9	197.5	208.8	220.2
147.5°	140.8	143.9	148.5	154.3	161.2	169.6	178.2	186.9	196.2	205.9	215.4
150°	144.2	147.0	151.6	156.5	162.9	171.0	178.5	186.9	195.1	203.9	212.0
152.5°	147.6	150.4	154.4	158.8	164.9	171.9	179.0	186.1	193.7	201.6	208.9
155°	153.0	155.1	158.7	162.6	167.5	173.5	179.2	185.2	191.2	198.2	204.3
157.5°	157.7	159.4	162.5	165.8	169.6	174.4	179.5	184.0	189.0	194.4	199.3
160°	160.8	162.2	165.0	167.5	171.0	175.3	179.5	183.4	187.3	191.9	196.5
162.5°	163.3	164.5	166.7	168.9	171.9	175.6	179.2	182.3	185.6	189.3	193.1
165°	166.8	167.5	169.3	170.7	173.2	176.0	178.5	180.6	183.1	185.9	188.7
167.5°	169.6	170.0	171.3	172.3	173.9	175.9	177.9	178.9	180.5	182.6	184.9
170°	171.0	171.4	172.4	173.2	173.9	175.6	177.0	177.8	178.8	180.6	182.3
172.5°	172.4	172.5	173.3	173.7	174.1	175.6	176.8	176.9	177.4	178.6	180.1
175°	173.9	173.5	174.2	174.2	174.6	175.3	176.0	175.6	175.6	176.3	177.0
177.5°	174.6	174.3	174.6	174.6	174.6	174.9	175.4	174.9	174.6	174.9	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1478.0	1478.6	1484.6	1488.9	1486.7	1489.5	1490.5
5°	1614.8	1639.3	1652.2	1661.8	1662.4	1663.1	1668.6
7.5°	1808.7	1835.0	1854.2	1883.3	1892.0	1902.0	1899.1
10°	1950.3	1989.1	2022.4	2040.1	2059.2	2087.1	2064.6
12.5°	2082.6	2151.3	2202.1	2229.6	2247.5	2253.1	2242.1
15°	2300.7	2390.6	2438.9	2437.5	2498.8	2525.3	2483.8
17.5°	2500.8	2583.7	2650.1	2684.1	2735.2	2746.5	2741.3
20°	2623.3	2713.8	2765.5	2824.0	2850.6	2874.4	2878.5
22.5°	2728.9	2810.2	2865.7	2914.4	2936.6	2947.9	2954.7
25°	2837.6	2901.6	2935.0	2952.0	2958.1	2956.7	2947.9
27.5°	2830.2	2835.1	2798.3	2762.3	2730.0	2693.7	2681.1
30°	2756.7	2699.5	2597.4	2539.6	2454.5	2387.2	2414.4
32.5°	2563.4	2449.6	2335.0	2208.6	2103.9	2074.1	2044.2
35°	2187.8	1987.7	1870.7	1734.6	1680.1	1625.7	1588.3
37.5°	1770.0	1615.2	1476.4	1387.4	1332.8	1298.4	1279.9
40°	1530.4	1390.9	1276.6	1204.5	1163.0	1124.2	1118.7
42.5°	1339.3	1209.6	1123.6	1066.2	1026.3	1009.8	997.9
45°	1097.0	1006.4	948.6	907.8	881.2	871.0	857.4
47.5°	928.5	864.5	821.1	793.3	773.3	765.7	764.6
50°	834.3	781.2	749.2	727.4	711.8	709.1	698.2
52.5°	763.5	717.5	692.6	673.6	662.3	654.6	651.4
55°	662.8	632.2	609.7	598.8	590.0	582.5	582.5
57.5°	579.9	554.3	539.5	530.2	527.5	522.2	518.8
60°	528.7	507.0	495.4	487.2	481.8	482.5	476.3
62.5°	478.7	464.5	453.5	445.3	438.8	438.9	439.3
65°	407.6	396.7	388.6	385.8	381.8	377.0	378.4
67.5°	345.4	335.2	328.8	324.2	322.8	320.2	324.2
70°	300.8	293.3	288.5	284.4	283.1	283.8	287.2
72.5°	259.9	254.6	251.5	249.6	246.6	246.7	249.1
75°	204.1	200.1	197.3	195.3	194.6	194.6	194.6
77.5°	150.0	149.0	147.8	144.8	144.9	145.8	145.9
80°	118.4	116.4	115.7	114.3	112.3	110.9	114.3
82.5°	88.5	86.4	85.7	85.5	82.3	82.1	84.9
85°	47.6	45.6	46.3	45.6	45.6	44.9	44.9
87.5°	18.7	18.2	17.8	18.3	17.8	17.4	18.4
90°	9.2	9.5	10.2	9.9	10.2	10.6	10.2
92.5°	23.6	20.8	19.0	18.4	17.3	17.7	17.0
95°	86.2	67.5	54.8	48.1	44.9	42.4	41.0
97.5°	254.0	208.4	166.2	140.1	124.2	114.6	111.6
100°	388.0	346.7	296.5	260.8	235.0	221.2	221.6
102.5°	448.8	424.7	392.9	365.1	344.7	333.2	325.0
105°	494.7	501.4	492.3	476.0	462.6	451.3	449.5
107.5°	488.9	519.9	532.5	532.8	528.2	524.4	521.2
110°	470.0	514.5	539.3	549.2	552.0	551.3	550.6



TEST NUMBER: P332002

CATALOG NUMBER: S123DIP-S1000D365U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	445.1	495.0	526.8	544.9	553.7	556.4	556.5
115°	405.3	457.3	495.8	522.3	537.8	544.9	546.7
117.5°	371.7	418.3	457.4	485.1	502.9	513.0	515.4
120°	353.0	395.4	431.1	459.0	478.8	487.3	489.4
122.5°	338.0	377.3	410.5	435.3	453.1	462.4	465.1
125°	319.5	353.4	381.7	404.3	419.8	428.7	431.1
127.5°	303.1	333.7	359.5	379.6	392.9	400.9	403.1
130°	293.0	321.6	345.6	364.3	377.1	384.5	387.3
132.5°	283.3	310.0	332.9	350.5	363.2	369.8	371.8
135°	269.6	292.6	312.7	330.1	340.7	347.0	349.5
137.5°	256.4	276.2	293.7	308.2	319.0	324.3	326.0
140°	248.8	265.7	280.9	294.4	304.3	309.9	309.6
142.5°	241.4	256.1	269.3	280.8	289.6	294.6	294.3
145°	231.8	243.1	253.4	262.2	269.6	272.5	273.2
147.5°	224.7	233.8	241.1	247.8	252.8	255.5	255.8
150°	220.2	227.6	234.3	239.6	243.5	245.6	245.6
152.5°	215.9	222.5	228.1	232.2	235.8	237.1	237.1
155°	209.9	215.2	219.4	222.6	225.5	226.2	226.5
157.5°	204.0	208.1	211.5	214.2	216.3	216.9	216.8
160°	200.4	203.9	206.4	208.8	211.0	211.0	210.6
162.5°	196.4	199.7	201.9	203.5	205.3	205.3	205.0
165°	190.8	193.3	195.1	196.5	197.9	197.5	197.5
167.5°	186.5	187.9	189.2	189.8	190.8	190.5	190.5
170°	183.4	184.8	185.5	185.9	186.6	186.2	186.2
172.5°	180.9	182.0	182.4	182.5	183.2	182.6	182.3
175°	177.4	178.1	178.1	178.1	178.5	178.1	177.8
177.5°	175.4	175.7	175.7	175.4	175.7	175.1	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6

(END OF REPORT)