

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: P332065-830

Luminaire Tested: **S123DIP-S1165D805U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332065-830  
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-S1165D805U830-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7356.2 lumens  
Efficiency: N/A  
Efficacy: 121.2 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

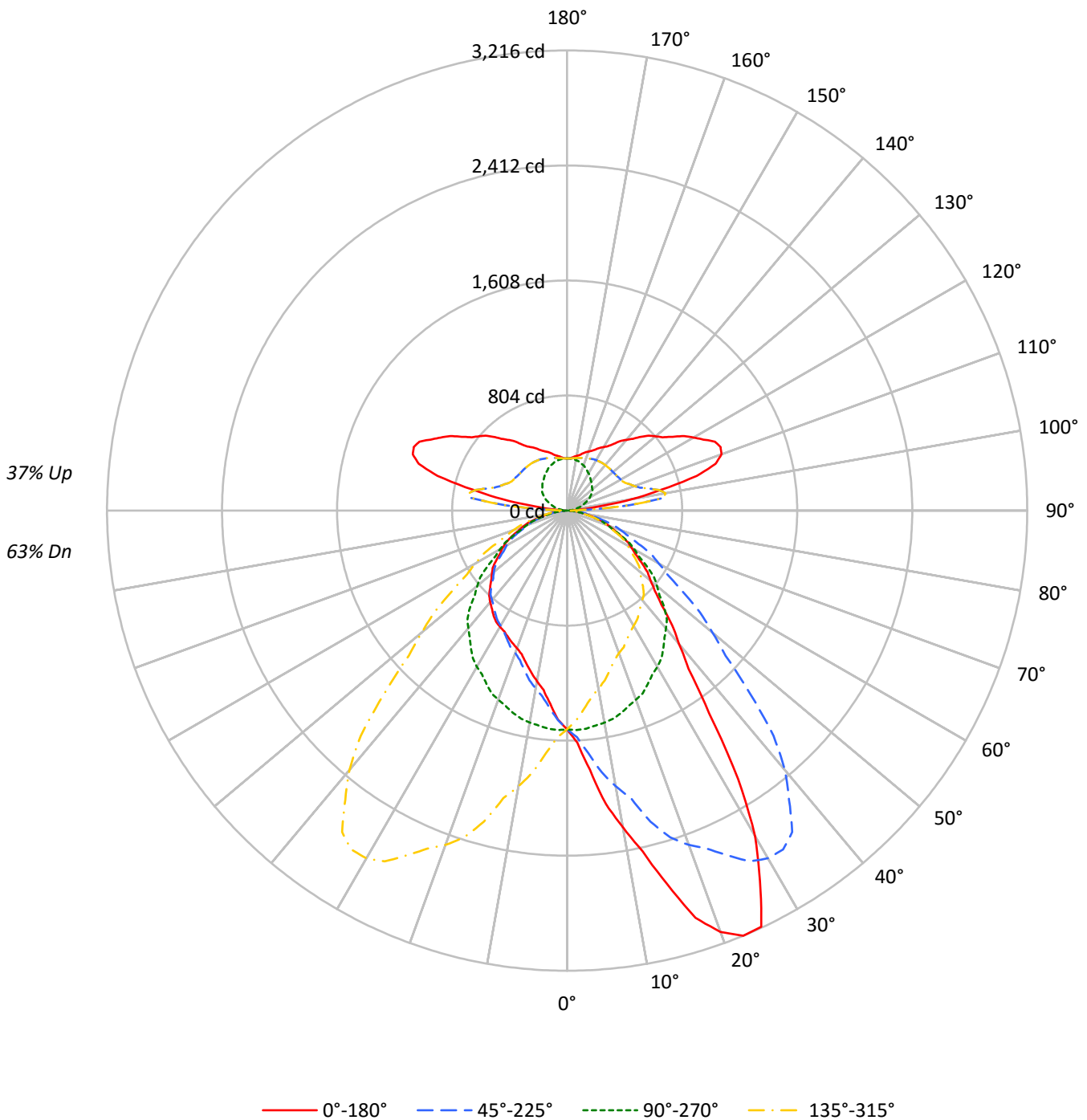
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

### 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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	89	95	91	88	84	80	77	75	70	68	66	61	59	58	54
2	92	85	79	74	86	80	74	70	70	66	63	62	59	56	54	51	49	45
3	84	75	68	62	79	71	64	59	62	57	53	55	51	48	48	45	42	39
4	77	66	59	52	72	63	56	50	56	50	46	49	45	41	43	40	37	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	39	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	39	33	41	35	31	36	32	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	32	27	33	29	25	30	26	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	21	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

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

	0°	90°	180°	270°
0°	16457	16457	16457	16457
5°	19626	16528	14647	16528
10°	24565	16444	13230	16444
15°	30130	16312	12316	16312
20°	35892	16105	11726	16105
25°	38112	15853	11595	15853
30°	32666	15669	11656	15669
35°	22718	15408	11779	15408
40°	17113	15104	11741	15104
45°	14209	14647	11592	14647
50°	12728	13720	11488	13720
55°	11898	12720	11344	12720
60°	11162	11672	11227	11672
65°	10491	10641	10868	10641
70°	9838	9467	10351	9467
75°	8813	8289	9491	8289
80°	7711	6794	8176	6794
85°	6039	4940	5496	4940



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	2.0
10°-20°	482.9	6.6
20°-30°	810.5	11.0
30°-40°	917.8	12.5
40°-50°	823.0	11.2
50°-60°	664.2	9.0
60°-70°	462.8	6.3
70°-80°	243.3	3.3
80°-90°	62.3	0.8
90°-100°	202.6	2.8
100°-110°	573.6	7.8
110°-120°	564.3	7.7
120°-130°	450.1	6.1
130°-140°	354.9	4.8
140°-150°	264.9	3.6
150°-160°	184.6	2.5
160°-170°	108.5	1.5
170°-180°	35.3	0.5
0°-30°	1444.1	19.6
0°-40°	2361.9	32.1
0°-60°	3849.1	52.3
0°-90°	4617.5	62.8
90°-120°	1340.5	18.2
90°-150°	2410.4	32.8
90°-180°	2739.0	37.2
0°-180°	7356.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1529	1529	1529	1529	1529	
5°	1816	1530	1356	1530	1816	188
15°	2704	1464	1105	1464	2704	781
25°	3209	1335	976	1335	3209	1407
35°	1729	1173	896	1173	1729	1123
45°	933	962	762	962	933	739
55°	634	678	604	678	634	569
65°	412	418	427	418	412	410
75°	212	199	228	199	212	227
85°	49	40	44	40	49	58
90°	21	2	21	2	21	14
95°	86	25	86	25	86	154
105°	937	86	937	86	937	925
115°	1140	151	1140	151	1140	1108
125°	899	210	899	210	899	815
135°	729	246	729	246	729	565
145°	570	281	570	281	570	362
155°	472	319	472	319	472	220
165°	412	349	412	349	412	118
175°	371	363	371	363	371	36
180°	364	364	364	364	364	



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1622.6	1621.4	1618.4	1620.8	1616.1	1609.5	1608.9	1603.0	1585.8	1584.6	1579.9
5°	1816.4	1810.4	1809.7	1808.9	1798.6	1784.5	1757.8	1755.6	1720.0	1702.2	1680.8
7.5°	2067.3	2070.4	2059.6	2050.1	2018.5	1997.5	1969.0	1932.4	1888.7	1844.4	1814.9
10°	2247.5	2271.9	2241.6	2220.8	2201.6	2165.2	2123.1	2070.4	2017.8	1956.3	1909.7
12.5°	2440.7	2452.7	2446.6	2427.0	2397.1	2341.8	2267.0	2209.1	2160.7	2058.3	2016.9
15°	2703.8	2749.0	2720.1	2653.4	2654.9	2602.3	2504.5	2397.1	2340.1	2250.4	2128.3
17.5°	2984.1	2989.7	2977.4	2921.9	2884.8	2812.5	2722.3	2619.3	2503.8	2395.4	2265.7
20°	3133.4	3129.0	3103.0	3074.2	3010.5	2954.2	2855.6	2740.8	2592.7	2486.1	2344.5
22.5°	3216.4	3209.0	3196.7	3172.5	3119.5	3059.0	2970.6	2845.2	2704.1	2557.1	2393.7
25°	3209.0	3218.6	3220.1	3213.4	3194.9	3158.6	3089.0	2989.0	2848.3	2659.4	2489.0
27.5°	2918.6	2932.2	2971.8	3006.9	3046.2	3086.2	3080.8	3031.2	2927.1	2763.9	2555.6
30°	2628.2	2598.6	2671.9	2764.6	2827.5	2938.6	3000.9	3004.5	2946.0	2806.0	2603.0
32.5°	2225.2	2257.9	2290.3	2404.2	2541.8	2666.6	2790.5	2890.2	2901.6	2808.4	2630.9
35°	1728.9	1769.7	1828.9	1888.2	2036.4	2163.8	2381.5	2571.2	2722.3	2742.3	2633.4
37.5°	1393.3	1413.3	1450.9	1510.2	1607.1	1758.3	1926.7	2166.4	2385.4	2548.3	2555.3
40°	1217.9	1223.7	1265.9	1311.2	1389.7	1514.1	1665.9	1877.8	2140.0	2367.5	2462.3
42.5°	1086.3	1099.3	1117.2	1160.6	1223.1	1316.8	1458.0	1633.0	1873.4	2135.1	2320.6
45°	933.4	948.2	959.3	988.2	1032.6	1095.6	1194.1	1354.2	1537.1	1807.4	2057.1
47.5°	832.4	833.5	841.8	863.6	893.8	941.0	1010.7	1113.5	1281.5	1500.8	1757.1
50°	760.1	771.8	774.9	791.8	815.6	850.4	908.1	995.6	1133.4	1326.0	1561.5
52.5°	709.1	712.7	721.0	733.2	753.9	781.1	831.1	899.6	1007.8	1171.9	1388.5
55°	634.0	634.0	642.2	651.9	663.7	688.2	721.5	771.8	854.1	981.5	1160.7
57.5°	564.8	568.4	574.2	577.2	587.3	603.4	631.3	669.5	730.8	828.9	971.5
60°	518.5	525.2	524.4	530.4	539.3	551.9	575.6	606.7	661.5	740.0	860.1
62.5°	478.2	477.8	477.7	484.7	493.6	505.7	521.0	548.0	594.6	664.2	766.4
65°	411.9	410.4	415.6	420.0	423.0	431.9	443.7	467.4	498.5	550.4	629.6
67.5°	352.9	348.6	351.4	352.9	358.0	364.9	376.0	390.7	415.4	457.0	516.8
70°	312.6	308.9	308.1	309.6	314.1	319.2	327.4	341.5	364.5	397.8	441.5
72.5°	271.1	268.6	268.4	271.7	273.8	277.2	283.0	295.9	314.1	339.1	379.8
75°	211.9	211.9	211.9	212.6	214.8	217.8	222.3	228.8	243.0	260.7	288.1
77.5°	158.8	158.6	157.8	157.6	160.9	162.2	163.2	169.5	177.3	189.4	209.3
80°	124.4	120.7	122.2	124.4	125.9	126.7	128.9	130.4	137.0	143.7	157.8
82.5°	92.5	89.4	89.6	93.0	93.3	94.1	96.3	98.4	100.9	107.0	114.5
85°	48.9	48.9	49.7	49.7	50.3	49.7	51.8	52.6	52.6	56.3	60.7
87.5°	22.1	21.0	21.5	21.9	21.5	21.8	22.2	22.6	23.1	23.8	23.9
90°	21.4	22.1	21.4	20.6	21.4	19.9	19.1	18.4	17.7	18.4	16.2
92.5°	35.5	36.9	36.1	38.4	39.7	43.5	49.2	62.0	85.5	113.3	124.7
95°	85.5	88.4	93.6	100.2	114.2	140.7	179.8	265.3	354.5	437.0	389.1
97.5°	232.7	239.0	258.9	292.1	346.5	434.6	529.7	661.3	724.5	677.2	495.8
100°	462.0	461.3	490.0	543.8	618.2	722.9	809.1	868.8	843.0	697.9	471.6
102.5°	677.8	694.7	718.8	761.4	819.3	885.6	935.9	937.7	848.9	659.5	436.2
105°	937.4	941.0	964.6	992.6	1026.5	1045.7	1031.6	958.0	804.0	592.5	392.8
107.5°	1086.8	1093.5	1101.5	1111.0	1110.3	1084.1	1019.5	899.9	725.3	533.2	365.0
110°	1148.1	1149.5	1151.0	1145.1	1124.5	1072.9	980.1	844.5	675.7	499.6	354.5



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1160.5	1160.2	1154.6	1136.3	1098.5	1032.3	928.2	789.7	632.7	477.2	348.6
115°	1140.0	1136.3	1121.5	1089.1	1033.9	953.6	845.2	717.0	580.7	453.2	346.4
117.5°	1074.9	1069.8	1048.6	1011.4	953.9	872.3	775.1	664.4	549.3	439.0	347.7
120°	1020.6	1016.2	998.5	957.2	899.0	824.6	736.1	636.7	532.8	432.5	350.1
122.5°	969.9	964.3	944.8	907.7	856.0	786.8	704.9	614.9	519.2	428.5	354.1
125°	899.0	893.8	875.4	843.0	795.9	736.9	666.2	585.8	501.8	423.0	360.3
127.5°	840.7	835.9	819.3	791.5	749.6	696.0	632.1	560.5	486.5	420.4	367.4
130°	807.7	801.7	786.3	759.8	720.7	670.6	610.9	544.6	478.2	418.6	372.1
132.5°	775.2	771.1	757.4	730.8	694.2	646.4	590.9	529.8	470.6	417.9	375.7
135°	728.8	723.6	710.4	688.2	652.1	610.1	562.2	509.9	460.5	417.1	381.0
137.5°	679.8	676.4	665.2	642.7	612.4	576.0	534.7	491.8	451.9	415.5	384.6
140°	645.5	646.3	634.4	613.9	585.8	554.1	518.8	481.2	446.6	414.9	386.9
142.5°	613.7	614.4	603.8	585.5	561.7	534.1	503.4	471.2	441.9	413.7	388.6
145°	569.6	568.2	562.2	546.8	528.4	507.0	483.4	459.1	435.5	411.9	389.8
147.5°	533.4	532.8	527.2	516.7	502.8	487.6	468.5	449.2	429.3	409.2	389.8
150°	512.2	512.2	507.7	499.6	488.5	474.6	459.1	442.1	425.2	406.8	389.8
152.5°	494.5	494.5	491.8	484.3	475.6	463.9	450.3	435.6	420.5	403.8	388.0
155°	472.3	471.6	470.1	464.2	457.6	448.7	437.7	425.9	413.4	398.7	386.2
157.5°	452.1	452.3	451.1	446.7	440.9	434.0	425.5	415.6	405.5	394.1	383.6
160°	439.2	439.9	439.9	435.5	430.4	425.2	417.8	409.7	400.1	390.6	382.5
162.5°	427.4	428.1	428.1	424.3	420.9	416.3	409.5	402.7	394.8	387.0	380.1
165°	411.9	411.9	412.6	409.7	406.8	403.1	397.9	393.5	387.6	381.7	376.5
167.5°	397.2	397.2	397.9	395.9	394.5	391.9	388.9	385.5	380.7	376.5	373.1
170°	388.3	388.3	389.1	387.6	386.9	385.4	382.5	380.2	376.5	372.9	370.7
172.5°	380.1	380.7	382.0	380.5	380.4	379.5	377.1	375.5	372.4	369.9	368.9
175°	370.7	371.4	372.1	371.4	371.4	371.4	369.9	369.2	367.7	366.3	366.3
177.5°	365.2	365.2	366.4	365.8	366.4	366.4	365.8	365.2	364.6	364.0	364.6
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1576.3	1571.6	1566.9	1558.6	1551.4	1541.3	1538.4	1534.8	1524.2	1514.8	1507.6
5°	1672.6	1654.8	1628.9	1605.2	1586.0	1560.1	1545.2	1529.7	1507.4	1487.4	1471.1
7.5°	1773.4	1738.4	1698.1	1654.5	1614.0	1574.9	1543.3	1515.1	1484.0	1454.5	1431.6
10°	1853.4	1803.0	1746.7	1686.0	1634.1	1583.8	1541.5	1504.5	1464.5	1429.6	1400.8
12.5°	1944.7	1870.0	1792.3	1718.5	1657.3	1587.3	1536.2	1489.1	1443.8	1401.8	1369.4
15°	2052.7	1957.8	1866.0	1764.5	1671.1	1583.8	1523.1	1463.8	1411.2	1368.2	1326.7
17.5°	2151.1	2043.6	1922.6	1799.1	1686.6	1582.9	1497.8	1430.9	1365.1	1312.5	1271.1
20°	2206.8	2084.5	1947.5	1819.3	1694.9	1579.3	1486.0	1406.0	1334.8	1279.3	1232.7
22.5°	2254.8	2111.8	1970.0	1833.0	1694.3	1569.8	1464.1	1381.7	1304.7	1250.3	1200.6
25°	2304.5	2133.4	1991.2	1830.4	1675.7	1546.7	1428.2	1334.8	1257.8	1194.1	1143.0
27.5°	2347.2	2131.9	1963.1	1790.3	1646.2	1517.1	1390.5	1290.4	1208.6	1139.4	1087.6
30°	2375.6	2134.9	1934.1	1763.0	1617.9	1484.5	1361.5	1260.7	1174.9	1104.5	1055.6
32.5°	2393.4	2133.1	1907.4	1725.1	1572.8	1454.8	1330.1	1225.8	1137.6	1068.4	1021.2
35°	2403.8	2120.1	1861.5	1646.7	1500.1	1385.3	1280.8	1172.6	1080.1	1015.6	962.2
37.5°	2383.0	2092.6	1808.2	1571.1	1410.6	1297.5	1209.7	1117.5	1028.9	958.0	912.0
40°	2350.4	2074.9	1766.7	1517.9	1349.0	1240.0	1165.3	1074.9	987.4	920.0	877.0
42.5°	2288.2	2038.7	1721.1	1458.6	1285.0	1176.0	1107.1	1031.6	949.0	885.6	842.7
45°	2136.4	1960.0	1652.7	1369.7	1190.4	1077.8	1017.1	962.2	887.4	826.0	788.9
47.5°	1925.7	1841.7	1553.7	1275.9	1091.7	983.4	920.3	876.2	821.5	771.8	736.3
50°	1779.3	1744.5	1486.7	1211.9	1026.0	920.0	859.3	819.3	780.0	730.4	697.8
52.5°	1610.4	1631.9	1408.5	1145.5	959.0	854.9	797.7	765.9	730.3	689.5	661.1
55°	1372.6	1450.4	1273.4	1034.1	859.3	760.1	706.0	677.8	657.0	626.7	602.3
57.5°	1150.0	1249.0	1127.3	919.3	761.4	675.7	623.9	593.2	579.9	564.0	544.8
60°	1017.9	1115.6	1023.0	842.3	695.6	614.1	568.2	542.2	528.9	517.8	501.5
62.5°	899.8	998.8	921.1	764.0	630.9	555.4	515.4	490.1	479.8	473.9	460.1
65°	737.8	823.0	771.1	642.2	538.6	471.8	435.5	417.8	408.1	406.0	397.1
67.5°	600.5	665.3	627.5	532.7	451.1	393.5	362.7	347.6	340.2	339.4	332.7
70°	510.4	571.1	542.2	456.3	386.0	340.7	314.1	300.8	296.3	295.6	291.9
72.5°	440.5	482.9	459.9	388.1	333.8	292.8	273.1	259.3	254.2	255.2	252.8
75°	325.9	357.8	344.5	294.8	251.1	224.4	208.1	199.3	194.8	197.1	194.1
77.5°	234.5	254.7	242.7	208.3	181.3	162.1	150.1	144.6	140.6	140.4	139.1
80°	177.0	188.9	182.2	161.5	139.3	123.0	113.3	109.6	107.4	106.7	105.9
82.5°	126.1	136.2	128.3	114.0	99.0	89.2	83.7	78.8	77.2	77.7	76.9
85°	63.7	67.4	64.5	55.5	49.7	45.1	42.2	40.0	38.5	39.3	37.8
87.5°	24.7	24.9	22.6	20.0	18.5	16.3	16.0	14.5	13.7	13.9	13.8
90°	14.0	11.8	9.6	8.1	6.6	4.4	2.9	1.5	2.9	4.4	6.6
92.5°	93.6	61.9	42.6	31.7	25.5	19.8	13.6	9.1	13.6	19.8	25.5
95°	268.2	158.4	95.8	67.0	47.9	35.3	27.2	25.1	27.2	35.3	47.9
97.5°	294.4	170.5	110.7	79.6	60.7	49.9	43.5	42.7	43.5	49.9	60.7
100°	277.8	168.7	117.2	88.4	70.8	60.4	55.2	54.6	55.2	60.4	70.8
102.5°	263.6	171.1	124.8	98.5	82.6	72.8	68.2	66.9	68.2	72.8	82.6
105°	253.4	177.6	137.8	115.0	100.9	92.1	87.7	85.5	87.7	92.1	100.9
107.5°	252.8	189.6	154.8	133.6	120.4	111.7	107.4	105.2	107.4	111.7	120.4
110°	255.7	199.7	166.5	145.9	133.4	125.3	121.6	119.4	121.6	125.3	133.4





TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	261.6	209.7	178.9	158.9	146.4	138.3	134.6	132.3	134.6	138.3	146.4
115°	271.2	226.2	198.2	178.3	165.8	158.4	154.0	151.1	154.0	158.4	165.8
117.5°	283.9	243.7	216.0	197.7	183.6	176.8	173.1	169.8	173.1	176.8	183.6
120°	293.3	255.0	228.5	210.0	196.0	188.6	184.9	182.8	184.9	188.6	196.0
122.5°	302.1	266.7	240.8	221.2	207.8	199.8	196.1	194.0	196.1	199.8	207.8
125°	316.1	283.7	257.9	238.0	224.0	215.9	211.5	210.0	211.5	215.9	224.0
127.5°	327.6	298.4	273.5	253.6	238.2	229.9	224.4	222.3	224.4	229.9	238.2
130°	335.3	307.3	283.0	263.1	247.6	238.7	232.1	229.9	232.1	238.7	247.6
132.5°	342.3	314.9	291.2	271.9	256.5	245.8	238.7	235.8	238.7	245.8	256.5
135°	351.5	326.4	303.6	283.7	268.2	257.2	249.1	246.1	249.1	257.2	268.2
137.5°	358.3	334.4	312.5	294.0	278.7	266.9	258.9	255.8	258.9	266.9	278.7
140°	361.8	339.7	318.3	299.9	285.2	273.4	266.0	262.3	266.0	273.4	285.2
142.5°	365.3	343.8	323.0	305.9	291.1	280.5	272.5	269.4	272.5	280.5	291.1
145°	369.2	349.3	330.2	313.2	300.7	289.6	283.0	280.8	283.0	289.6	300.7
147.5°	371.6	353.7	336.2	321.7	309.6	300.1	293.6	292.3	293.6	300.1	309.6
150°	372.1	356.7	339.7	326.4	316.1	306.5	300.7	299.9	300.7	306.5	316.1
152.5°	373.3	358.4	343.8	331.1	322.1	313.6	307.7	307.6	307.7	313.6	322.1
155°	373.6	361.8	349.3	338.9	330.8	323.5	319.1	319.1	319.1	323.5	330.8
157.5°	374.4	363.7	353.7	345.7	338.8	332.3	328.8	328.2	328.8	332.3	338.8
160°	374.4	365.5	356.7	349.3	344.1	338.3	335.3	335.3	335.3	338.3	344.1
162.5°	373.7	366.1	358.4	352.2	347.7	343.0	340.6	340.6	340.6	343.0	347.7
165°	372.1	366.9	361.1	355.9	353.0	349.3	347.8	348.6	347.8	349.3	353.0
167.5°	371.0	366.8	362.6	359.3	357.2	354.5	353.7	354.6	353.7	354.5	357.2
170°	369.2	366.3	362.6	361.1	359.6	357.4	356.7	358.2	356.7	357.4	359.6
172.5°	368.6	366.3	363.2	362.2	361.4	359.8	359.6	360.5	359.6	359.8	361.4
175°	366.9	365.5	364.0	363.3	363.3	361.8	362.6	363.3	362.6	361.8	363.3
177.5°	365.8	364.6	364.0	364.0	364.0	363.4	364.0	364.6	364.0	363.4	364.0
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1503.4	1499.3	1493.4	1484.5	1477.3	1466.1	1466.1	1467.9	1467.9	1467.4	1466.1
5°	1457.8	1446.7	1433.4	1417.9	1401.6	1385.3	1382.2	1376.3	1371.9	1368.9	1365.3
7.5°	1409.7	1390.0	1370.6	1348.8	1328.9	1312.5	1301.1	1291.6	1285.5	1279.0	1274.2
10°	1377.1	1352.6	1329.6	1306.7	1281.5	1261.5	1249.0	1240.0	1233.4	1227.5	1224.5
12.5°	1338.6	1310.6	1285.3	1263.5	1235.9	1215.3	1203.3	1199.1	1191.3	1178.8	1172.3
15°	1282.2	1256.3	1226.0	1192.6	1179.3	1154.1	1140.0	1133.4	1128.9	1119.3	1116.3
17.5°	1234.1	1200.1	1166.1	1141.2	1116.4	1096.0	1088.2	1079.9	1073.9	1066.1	1063.8
20°	1195.6	1165.3	1134.1	1107.5	1081.5	1059.3	1052.6	1046.7	1040.8	1037.1	1034.1
22.5°	1156.5	1126.1	1100.3	1075.4	1047.7	1033.2	1026.0	1019.5	1015.3	1012.8	1009.8
25°	1101.5	1074.9	1045.9	1023.7	1001.5	991.8	987.4	983.7	980.8	977.0	976.3
27.5°	1052.3	1023.3	999.8	979.1	963.2	955.2	950.8	949.0	949.7	951.0	951.9
30°	1015.6	988.9	969.7	951.9	937.1	929.6	928.9	928.9	931.9	932.6	934.1
32.5°	981.8	959.9	940.7	923.4	912.2	907.1	909.9	909.9	912.3	914.3	916.9
35°	932.6	913.3	898.5	883.7	874.1	876.3	877.8	879.3	883.0	887.4	890.4
37.5°	885.6	868.9	853.5	842.0	837.5	841.5	845.1	848.2	852.4	855.9	858.8
40°	851.9	839.2	824.4	814.1	815.6	817.8	820.8	824.4	828.2	830.4	833.4
42.5°	820.5	807.3	796.1	787.4	789.5	792.3	794.1	796.1	800.3	804.4	806.1
45°	772.6	762.2	751.9	746.7	748.2	749.7	751.1	753.4	757.1	760.1	760.7
47.5°	718.9	711.6	704.6	699.6	701.9	701.3	703.3	708.0	709.2	711.0	715.1
50°	684.5	677.8	669.7	668.2	668.2	668.2	668.9	674.9	674.9	677.8	680.8
52.5°	646.6	642.2	637.1	634.4	633.2	633.2	636.3	639.3	640.5	644.6	647.6
55°	590.4	586.0	581.5	579.3	577.8	579.3	585.2	586.6	590.4	592.6	594.8
57.5°	531.9	528.5	524.9	523.7	523.4	525.4	528.6	533.0	534.0	540.7	544.1
60°	493.3	488.1	485.2	485.2	483.7	490.4	488.9	496.3	497.8	502.3	507.5
62.5°	453.6	446.7	445.5	445.5	447.6	449.5	451.6	454.9	458.6	464.3	468.3
65°	389.6	386.0	391.2	390.4	388.9	393.3	393.3	397.1	401.5	406.7	414.8
67.5°	329.0	327.2	327.5	327.5	329.8	332.3	334.4	337.6	343.0	348.5	353.8
70°	288.1	290.4	286.7	289.6	291.9	292.6	294.1	298.5	304.4	308.1	314.1
72.5°	248.5	248.3	248.7	250.0	252.1	253.4	255.0	260.0	266.6	269.7	274.4
75°	191.1	190.4	192.6	192.6	196.3	197.7	199.3	201.5	207.5	211.9	215.6
77.5°	139.6	140.4	140.0	142.5	141.5	141.8	146.4	148.6	149.2	158.0	159.9
80°	105.2	106.7	107.4	108.1	108.9	107.4	112.6	114.8	114.8	120.0	123.7
82.5°	75.6	76.4	78.4	79.1	79.3	80.8	81.2	82.8	84.6	86.8	91.7
85°	37.8	40.0	40.7	40.0	40.7	39.3	41.5	42.2	43.0	43.0	43.0
87.5°	13.5	14.3	14.2	15.3	15.1	16.1	16.0	15.0	15.1	17.1	15.0
90°	8.1	9.6	11.8	14.0	16.2	18.4	17.7	18.4	19.1	19.9	21.4
92.5°	31.7	42.6	61.9	93.6	124.7	113.3	85.5	62.0	49.2	43.5	39.7
95°	67.0	95.8	158.4	268.2	389.1	437.0	354.5	265.3	179.8	140.7	114.2
97.5°	79.6	110.7	170.5	294.4	495.8	677.2	724.5	661.3	529.7	434.6	346.5
100°	88.4	117.2	168.7	277.8	471.6	697.9	843.0	868.8	809.1	722.9	618.2
102.5°	98.5	124.8	171.1	263.6	436.2	659.5	848.9	937.7	935.9	885.6	819.3
105°	115.0	137.8	177.6	253.4	392.8	592.5	804.0	958.0	1031.6	1045.7	1026.5
107.5°	133.6	154.8	189.6	252.8	365.0	533.2	725.3	899.9	1019.5	1084.1	1110.3
110°	145.9	166.5	199.7	255.7	354.5	499.6	675.7	844.5	980.1	1072.9	1124.5



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	158.9	178.9	209.7	261.6	348.6	477.2	632.7	789.7	928.2	1032.3	1098.5
115°	178.3	198.2	226.2	271.2	346.4	453.2	580.7	717.0	845.2	953.6	1033.9
117.5°	197.7	216.0	243.7	283.9	347.7	439.0	549.3	664.4	775.1	872.3	953.9
120°	210.0	228.5	255.0	293.3	350.1	432.5	532.8	636.7	736.1	824.6	899.0
122.5°	221.2	240.8	266.7	302.1	354.1	428.5	519.2	614.9	704.9	786.8	856.0
125°	238.0	257.9	283.7	316.1	360.3	423.0	501.8	585.8	666.2	736.9	795.9
127.5°	253.6	273.5	298.4	327.6	367.4	420.4	486.5	560.5	632.1	696.0	749.6
130°	263.1	283.0	307.3	335.3	372.1	418.6	478.2	544.6	610.9	670.6	720.7
132.5°	271.9	291.2	314.9	342.3	375.7	417.9	470.6	529.8	590.9	646.4	694.2
135°	283.7	303.6	326.4	351.5	381.0	417.1	460.5	509.9	562.2	610.1	652.1
137.5°	294.0	312.5	334.4	358.3	384.6	415.5	451.9	491.8	534.7	576.0	612.4
140°	299.9	318.3	339.7	361.8	386.9	414.9	446.6	481.2	518.8	554.1	585.8
142.5°	305.9	323.0	343.8	365.3	388.6	413.7	441.9	471.2	503.4	534.1	561.7
145°	313.2	330.2	349.3	369.2	389.8	411.9	435.5	459.1	483.4	507.0	528.4
147.5°	321.7	336.2	353.7	371.6	389.8	409.2	429.3	449.2	468.5	487.6	502.8
150°	326.4	339.7	356.7	372.1	389.8	406.8	425.2	442.1	459.1	474.6	488.5
152.5°	331.1	343.8	358.4	373.3	388.0	403.8	420.5	435.6	450.3	463.9	475.6
155°	338.9	349.3	361.8	373.6	386.2	398.7	413.4	425.9	437.7	448.7	457.6
157.5°	345.7	353.7	363.7	374.4	383.6	394.1	405.5	415.6	425.5	434.0	440.9
160°	349.3	356.7	365.5	374.4	382.5	390.6	400.1	409.7	417.8	425.2	430.4
162.5°	352.2	358.4	366.1	373.7	380.1	387.0	394.8	402.7	409.5	416.3	420.9
165°	355.9	361.1	366.9	372.1	376.5	381.7	387.6	393.5	397.9	403.1	406.8
167.5°	359.3	362.6	366.8	371.0	373.1	376.5	380.7	385.5	388.9	391.9	394.5
170°	361.1	362.6	366.3	369.2	370.7	372.9	376.5	380.2	382.5	385.4	386.9
172.5°	362.2	363.2	366.3	368.6	368.9	369.9	372.4	375.5	377.1	379.5	380.4
175°	363.3	364.0	365.5	366.9	366.3	366.3	367.7	369.2	369.9	371.4	371.4
177.5°	364.0	364.0	364.6	365.8	364.6	364.0	364.6	365.2	365.8	366.4	366.4
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1462.0	1461.4	1465.6	1462.5	1465.6	1461.4	1462.0	1466.1	1467.4	1467.9	1467.9
5°	1360.7	1363.0	1355.6	1355.6	1355.6	1363.0	1360.7	1365.3	1368.9	1371.9	1376.3
7.5°	1270.7	1267.4	1267.7	1263.8	1267.7	1267.4	1270.7	1274.2	1279.0	1285.5	1291.6
10°	1215.6	1211.2	1209.7	1210.4	1209.7	1211.2	1215.6	1224.5	1227.5	1233.4	1240.0
12.5°	1170.0	1169.0	1159.3	1159.4	1159.3	1169.0	1170.0	1172.3	1178.8	1191.3	1199.1
15°	1116.3	1102.3	1100.8	1105.2	1100.8	1102.3	1116.3	1116.3	1119.3	1128.9	1133.4
17.5°	1062.5	1055.2	1055.6	1053.4	1055.6	1055.2	1062.5	1063.8	1066.1	1073.9	1079.9
20°	1034.1	1029.6	1028.9	1023.7	1028.9	1029.6	1034.1	1034.1	1037.1	1040.8	1046.7
22.5°	1008.0	1006.5	1007.0	1001.3	1007.0	1006.5	1008.0	1009.8	1012.8	1015.3	1019.5
25°	975.6	979.3	976.3	976.3	976.3	979.3	975.6	976.3	977.0	980.8	983.7
27.5°	953.7	953.5	952.1	952.1	952.1	953.5	953.7	951.9	951.0	949.7	949.0
30°	937.1	936.3	937.8	937.8	937.8	936.3	937.1	934.1	932.6	931.9	928.9
32.5°	920.5	921.5	921.8	922.4	921.8	921.5	920.5	916.9	914.3	912.3	909.9
35°	894.8	895.6	897.8	896.4	897.8	895.6	894.8	890.4	887.4	883.0	879.3
37.5°	860.2	863.6	862.8	864.0	862.8	863.6	860.2	858.8	855.9	852.4	848.2
40°	834.1	836.3	835.6	835.6	835.6	836.3	834.1	833.4	830.4	828.2	824.4
42.5°	807.5	809.1	807.1	806.0	807.1	809.1	807.5	806.1	804.4	800.3	796.1
45°	763.7	762.2	764.5	761.5	764.5	762.2	763.7	760.7	760.1	757.1	753.4
47.5°	714.8	716.3	716.9	719.2	716.9	716.3	714.8	715.1	711.0	709.2	708.0
50°	682.2	686.6	686.6	686.0	686.6	686.6	682.2	680.8	677.8	674.9	674.9
52.5°	650.3	652.3	655.3	655.2	655.3	652.3	650.3	647.6	644.6	640.5	639.3
55°	600.8	602.3	603.7	604.5	603.7	602.3	600.8	594.8	592.6	590.4	586.6
57.5°	549.5	548.9	552.4	553.5	552.4	548.9	549.5	544.1	540.7	534.0	533.0
60°	513.3	513.3	519.2	521.5	519.2	513.3	513.3	507.5	502.3	497.8	496.3
62.5°	474.9	477.2	483.1	480.0	483.1	477.2	474.9	468.3	464.3	458.6	454.9
65°	418.5	424.4	423.7	426.7	423.7	424.4	418.5	414.8	406.7	401.5	397.1
67.5°	359.7	363.4	368.7	369.2	368.7	363.4	359.7	353.8	348.5	343.0	337.6
70°	320.0	323.7	326.7	328.9	326.7	323.7	320.0	314.1	308.1	304.4	298.5
72.5°	281.5	283.4	290.5	287.4	290.5	283.4	281.5	274.4	269.7	266.6	260.0
75°	220.7	225.9	230.4	228.2	230.4	225.9	220.7	215.6	211.9	207.5	201.5
77.5°	163.2	168.4	170.5	168.6	170.5	168.4	163.2	159.9	158.0	149.2	148.6
80°	128.9	128.2	132.6	131.9	132.6	128.2	128.9	123.7	120.0	114.8	114.8
82.5°	94.5	93.8	95.9	96.3	95.9	93.8	94.5	91.7	86.8	84.6	82.8
85°	45.9	48.2	45.1	44.5	45.1	48.2	45.9	43.0	43.0	43.0	42.2
87.5°	14.8	15.0	14.5	13.8	14.5	15.0	14.8	15.0	17.1	15.1	15.0
90°	20.6	21.4	22.1	21.4	22.1	21.4	20.6	21.4	19.9	19.1	18.4
92.5°	38.4	36.1	36.9	35.5	36.9	36.1	38.4	39.7	43.5	49.2	62.0
95°	100.2	93.6	88.4	85.5	88.4	93.6	100.2	114.2	140.7	179.8	265.3
97.5°	292.1	258.9	239.0	232.7	239.0	258.9	292.1	346.5	434.6	529.7	661.3
100°	543.8	490.0	461.3	462.0	461.3	490.0	543.8	618.2	722.9	809.1	868.8
102.5°	761.4	718.8	694.7	677.8	694.7	718.8	761.4	819.3	885.6	935.9	937.7
105°	992.6	964.6	941.0	937.4	941.0	964.6	992.6	1026.5	1045.7	1031.6	958.0
107.5°	1111.0	1101.5	1093.5	1086.8	1093.5	1101.5	1111.0	1110.3	1084.1	1019.5	899.9
110°	1145.1	1151.0	1149.5	1148.1	1149.5	1151.0	1145.1	1124.5	1072.9	980.1	844.5



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1136.3	1154.6	1160.2	1160.5	1160.2	1154.6	1136.3	1098.5	1032.3	928.2	789.7
115°	1089.1	1121.5	1136.3	1140.0	1136.3	1121.5	1089.1	1033.9	953.6	845.2	717.0
117.5°	1011.4	1048.6	1069.8	1074.9	1069.8	1048.6	1011.4	953.9	872.3	775.1	664.4
120°	957.2	998.5	1016.2	1020.6	1016.2	998.5	957.2	899.0	824.6	736.1	636.7
122.5°	907.7	944.8	964.3	969.9	964.3	944.8	907.7	856.0	786.8	704.9	614.9
125°	843.0	875.4	893.8	899.0	893.8	875.4	843.0	795.9	736.9	666.2	585.8
127.5°	791.5	819.3	835.9	840.7	835.9	819.3	791.5	749.6	696.0	632.1	560.5
130°	759.8	786.3	801.7	807.7	801.7	786.3	759.8	720.7	670.6	610.9	544.6
132.5°	730.8	757.4	771.1	775.2	771.1	757.4	730.8	694.2	646.4	590.9	529.8
135°	688.2	710.4	723.6	728.8	723.6	710.4	688.2	652.1	610.1	562.2	509.9
137.5°	642.7	665.2	676.4	679.8	676.4	665.2	642.7	612.4	576.0	534.7	491.8
140°	613.9	634.4	646.3	645.5	646.3	634.4	613.9	585.8	554.1	518.8	481.2
142.5°	585.5	603.8	614.4	613.7	614.4	603.8	585.5	561.7	534.1	503.4	471.2
145°	546.8	562.2	568.2	569.6	568.2	562.2	546.8	528.4	507.0	483.4	459.1
147.5°	516.7	527.2	532.8	533.4	532.8	527.2	516.7	502.8	487.6	468.5	449.2
150°	499.6	507.7	512.2	512.2	512.2	507.7	499.6	488.5	474.6	459.1	442.1
152.5°	484.3	491.8	494.5	494.5	494.5	491.8	484.3	475.6	463.9	450.3	435.6
155°	464.2	470.1	471.6	472.3	471.6	470.1	464.2	457.6	448.7	437.7	425.9
157.5°	446.7	451.1	452.3	452.1	452.3	451.1	446.7	440.9	434.0	425.5	415.6
160°	435.5	439.9	439.9	439.2	439.9	439.9	435.5	430.4	425.2	417.8	409.7
162.5°	424.3	428.1	428.1	427.4	428.1	428.1	424.3	420.9	416.3	409.5	402.7
165°	409.7	412.6	411.9	411.9	411.9	412.6	409.7	406.8	403.1	397.9	393.5
167.5°	395.9	397.9	397.2	397.2	397.2	397.9	395.9	394.5	391.9	388.9	385.5
170°	387.6	389.1	388.3	388.3	388.3	389.1	387.6	386.9	385.4	382.5	380.2
172.5°	380.5	382.0	380.7	380.1	380.7	382.0	380.5	380.4	379.5	377.1	375.5
175°	371.4	372.1	371.4	370.7	371.4	372.1	371.4	371.4	371.4	369.9	369.2
177.5°	365.8	366.4	365.2	365.2	365.2	366.4	365.8	366.4	366.4	365.8	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1466.1	1466.1	1477.3	1484.5	1493.4	1499.3	1503.4	1507.6	1514.8	1524.2	1534.8
5°	1382.2	1385.3	1401.6	1417.9	1433.4	1446.7	1457.8	1471.1	1487.4	1507.4	1529.7
7.5°	1301.1	1312.5	1328.9	1348.8	1370.6	1390.0	1409.7	1431.6	1454.5	1484.0	1515.1
10°	1249.0	1261.5	1281.5	1306.7	1329.6	1352.6	1377.1	1400.8	1429.6	1464.5	1504.5
12.5°	1203.3	1215.3	1235.9	1263.5	1285.3	1310.6	1338.6	1369.4	1401.8	1443.8	1489.1
15°	1140.0	1154.1	1179.3	1192.6	1226.0	1256.3	1282.2	1326.7	1368.2	1411.2	1463.8
17.5°	1088.2	1096.0	1116.4	1141.2	1166.1	1200.1	1234.1	1271.1	1312.5	1365.1	1430.9
20°	1052.6	1059.3	1081.5	1107.5	1134.1	1165.3	1195.6	1232.7	1279.3	1334.8	1406.0
22.5°	1026.0	1033.2	1047.7	1075.4	1100.3	1126.1	1156.5	1200.6	1250.3	1304.7	1381.7
25°	987.4	991.8	1001.5	1023.7	1045.9	1074.9	1101.5	1143.0	1194.1	1257.8	1334.8
27.5°	950.8	955.2	963.2	979.1	999.8	1023.3	1052.3	1087.6	1139.4	1208.6	1290.4
30°	928.9	929.6	937.1	951.9	969.7	988.9	1015.6	1055.6	1104.5	1174.9	1260.7
32.5°	909.9	907.1	912.2	923.4	940.7	959.9	981.8	1021.2	1068.4	1137.6	1225.8
35°	877.8	876.3	874.1	883.7	898.5	913.3	932.6	962.2	1015.6	1080.1	1172.6
37.5°	845.1	841.5	837.5	842.0	853.5	868.9	885.6	912.0	958.0	1028.9	1117.5
40°	820.8	817.8	815.6	814.1	824.4	839.2	851.9	877.0	920.0	987.4	1074.9
42.5°	794.1	792.3	789.5	787.4	796.1	807.3	820.5	842.7	885.6	949.0	1031.6
45°	751.1	749.7	748.2	746.7	751.9	762.2	772.6	788.9	826.0	887.4	962.2
47.5°	703.3	701.3	701.9	699.6	704.6	711.6	718.9	736.3	771.8	821.5	876.2
50°	668.9	668.2	668.2	668.2	669.7	677.8	684.5	697.8	730.4	780.0	819.3
52.5°	636.3	633.2	633.2	634.4	637.1	642.2	646.6	661.1	689.5	730.3	765.9
55°	585.2	579.3	577.8	579.3	581.5	586.0	590.4	602.3	626.7	657.0	677.8
57.5°	528.6	525.4	523.4	523.7	524.9	528.5	531.9	544.8	564.0	579.9	593.2
60°	488.9	490.4	483.7	485.2	485.2	488.1	493.3	501.5	517.8	528.9	542.2
62.5°	451.6	449.5	447.6	445.5	445.5	446.7	453.6	460.1	473.9	479.8	490.1
65°	393.3	393.3	388.9	390.4	391.2	386.0	389.6	397.1	406.0	408.1	417.8
67.5°	334.4	332.3	329.8	327.5	327.5	327.2	329.0	332.7	339.4	340.2	347.6
70°	294.1	292.6	291.9	289.6	286.7	290.4	288.1	291.9	295.6	296.3	300.8
72.5°	255.0	253.4	252.1	250.0	248.7	248.3	248.5	252.8	255.2	254.2	259.3
75°	199.3	197.7	196.3	192.6	192.6	190.4	191.1	194.1	197.1	194.8	199.3
77.5°	146.4	141.8	141.5	142.5	140.0	140.4	139.6	139.1	140.4	140.6	144.6
80°	112.6	107.4	108.9	108.1	107.4	106.7	105.2	105.9	106.7	107.4	109.6
82.5°	81.2	80.8	79.3	79.1	78.4	76.4	75.6	76.9	77.7	77.2	78.8
85°	41.5	39.3	40.7	40.0	40.7	40.0	37.8	37.8	39.3	38.5	40.0
87.5°	16.0	16.1	15.1	15.3	14.2	14.3	13.5	13.8	13.9	13.7	14.5
90°	17.7	18.4	16.2	14.0	11.8	9.6	8.1	6.6	4.4	2.9	1.5
92.5°	85.5	113.3	124.7	93.6	61.9	42.6	31.7	25.5	19.8	13.6	9.1
95°	354.5	437.0	389.1	268.2	158.4	95.8	67.0	47.9	35.3	27.2	25.1
97.5°	724.5	677.2	495.8	294.4	170.5	110.7	79.6	60.7	49.9	43.5	42.7
100°	843.0	697.9	471.6	277.8	168.7	117.2	88.4	70.8	60.4	55.2	54.6
102.5°	848.9	659.5	436.2	263.6	171.1	124.8	98.5	82.6	72.8	68.2	66.9
105°	804.0	592.5	392.8	253.4	177.6	137.8	115.0	100.9	92.1	87.7	85.5
107.5°	725.3	533.2	365.0	252.8	189.6	154.8	133.6	120.4	111.7	107.4	105.2
110°	675.7	499.6	354.5	255.7	199.7	166.5	145.9	133.4	125.3	121.6	119.4



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	632.7	477.2	348.6	261.6	209.7	178.9	158.9	146.4	138.3	134.6	132.3
115°	580.7	453.2	346.4	271.2	226.2	198.2	178.3	165.8	158.4	154.0	151.1
117.5°	549.3	439.0	347.7	283.9	243.7	216.0	197.7	183.6	176.8	173.1	169.8
120°	532.8	432.5	350.1	293.3	255.0	228.5	210.0	196.0	188.6	184.9	182.8
122.5°	519.2	428.5	354.1	302.1	266.7	240.8	221.2	207.8	199.8	196.1	194.0
125°	501.8	423.0	360.3	316.1	283.7	257.9	238.0	224.0	215.9	211.5	210.0
127.5°	486.5	420.4	367.4	327.6	298.4	273.5	253.6	238.2	229.9	224.4	222.3
130°	478.2	418.6	372.1	335.3	307.3	283.0	263.1	247.6	238.7	232.1	229.9
132.5°	470.6	417.9	375.7	342.3	314.9	291.2	271.9	256.5	245.8	238.7	235.8
135°	460.5	417.1	381.0	351.5	326.4	303.6	283.7	268.2	257.2	249.1	246.1
137.5°	451.9	415.5	384.6	358.3	334.4	312.5	294.0	278.7	266.9	258.9	255.8
140°	446.6	414.9	386.9	361.8	339.7	318.3	299.9	285.2	273.4	266.0	262.3
142.5°	441.9	413.7	388.6	365.3	343.8	323.0	305.9	291.1	280.5	272.5	269.4
145°	435.5	411.9	389.8	369.2	349.3	330.2	313.2	300.7	289.6	283.0	280.8
147.5°	429.3	409.2	389.8	371.6	353.7	336.2	321.7	309.6	300.1	293.6	292.3
150°	425.2	406.8	389.8	372.1	356.7	339.7	326.4	316.1	306.5	300.7	299.9
152.5°	420.5	403.8	388.0	373.3	358.4	343.8	331.1	322.1	313.6	307.7	307.6
155°	413.4	398.7	386.2	373.6	361.8	349.3	338.9	330.8	323.5	319.1	319.1
157.5°	405.5	394.1	383.6	374.4	363.7	353.7	345.7	338.8	332.3	328.8	328.2
160°	400.1	390.6	382.5	374.4	365.5	356.7	349.3	344.1	338.3	335.3	335.3
162.5°	394.8	387.0	380.1	373.7	366.1	358.4	352.2	347.7	343.0	340.6	340.6
165°	387.6	381.7	376.5	372.1	366.9	361.1	355.9	353.0	349.3	347.8	348.6
167.5°	380.7	376.5	373.1	371.0	366.8	362.6	359.3	357.2	354.5	353.7	354.6
170°	376.5	372.9	370.7	369.2	366.3	362.6	361.1	359.6	357.4	356.7	358.2
172.5°	372.4	369.9	368.9	368.6	366.3	363.2	362.2	361.4	359.8	359.6	360.5
175°	367.7	366.3	366.3	366.9	365.5	364.0	363.3	363.3	361.8	362.6	363.3
177.5°	364.6	364.0	364.6	365.8	364.6	364.0	364.0	364.0	363.4	364.0	364.6
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1538.4	1541.3	1551.4	1558.6	1566.9	1571.6	1576.3	1579.9	1584.6	1585.8	1603.0
5°	1545.2	1560.1	1586.0	1605.2	1628.9	1654.8	1672.6	1680.8	1702.2	1720.0	1755.6
7.5°	1543.3	1574.9	1614.0	1654.5	1698.1	1738.4	1773.4	1814.9	1844.4	1888.7	1932.4
10°	1541.5	1583.8	1634.1	1686.0	1746.7	1803.0	1853.4	1909.7	1956.3	2017.8	2070.4
12.5°	1536.2	1587.3	1657.3	1718.5	1792.3	1870.0	1944.7	2016.9	2058.3	2160.7	2209.1
15°	1523.1	1583.8	1671.1	1764.5	1866.0	1957.8	2052.7	2128.3	2250.4	2340.1	2397.1
17.5°	1497.8	1582.9	1686.6	1799.1	1922.6	2043.6	2151.1	2265.7	2395.4	2503.8	2619.3
20°	1486.0	1579.3	1694.9	1819.3	1947.5	2084.5	2206.8	2344.5	2486.1	2592.7	2740.8
22.5°	1464.1	1569.8	1694.3	1833.0	1970.0	2111.8	2254.8	2393.7	2557.1	2704.1	2845.2
25°	1428.2	1546.7	1675.7	1830.4	1991.2	2133.4	2304.5	2489.0	2659.4	2848.3	2989.0
27.5°	1390.5	1517.1	1646.2	1790.3	1963.1	2131.9	2347.2	2555.6	2763.9	2927.1	3031.2
30°	1361.5	1484.5	1617.9	1763.0	1934.1	2134.9	2375.6	2603.0	2806.0	2946.0	3004.5
32.5°	1330.1	1454.8	1572.8	1725.1	1907.4	2133.1	2393.4	2630.9	2808.4	2901.6	2890.2
35°	1280.8	1385.3	1500.1	1646.7	1861.5	2120.1	2403.8	2633.4	2742.3	2722.3	2571.2
37.5°	1209.7	1297.5	1410.6	1571.1	1808.2	2092.6	2383.0	2555.3	2548.3	2385.4	2166.4
40°	1165.3	1240.0	1349.0	1517.9	1766.7	2074.9	2350.4	2462.3	2367.5	2140.0	1877.8
42.5°	1107.1	1176.0	1285.0	1458.6	1721.1	2038.7	2288.2	2320.6	2135.1	1873.4	1633.0
45°	1017.1	1077.8	1190.4	1369.7	1652.7	1960.0	2136.4	2057.1	1807.4	1537.1	1354.2
47.5°	920.3	983.4	1091.7	1275.9	1553.7	1841.7	1925.7	1757.1	1500.8	1281.5	1113.5
50°	859.3	920.0	1026.0	1211.9	1486.7	1744.5	1779.3	1561.5	1326.0	1133.4	995.6
52.5°	797.7	854.9	959.0	1145.5	1408.5	1631.9	1610.4	1388.5	1171.9	1007.8	899.6
55°	706.0	760.1	859.3	1034.1	1273.4	1450.4	1372.6	1160.7	981.5	854.1	771.8
57.5°	623.9	675.7	761.4	919.3	1127.3	1249.0	1150.0	971.5	828.9	730.8	669.5
60°	568.2	614.1	695.6	842.3	1023.0	1115.6	1017.9	860.1	740.0	661.5	606.7
62.5°	515.4	555.4	630.9	764.0	921.1	998.8	899.8	766.4	664.2	594.6	548.0
65°	435.5	471.8	538.6	642.2	771.1	823.0	737.8	629.6	550.4	498.5	467.4
67.5°	362.7	393.5	451.1	532.7	627.5	665.3	600.5	516.8	457.0	415.4	390.7
70°	314.1	340.7	386.0	456.3	542.2	571.1	510.4	441.5	397.8	364.5	341.5
72.5°	273.1	292.8	333.8	388.1	459.9	482.9	440.5	379.8	339.1	314.1	295.9
75°	208.1	224.4	251.1	294.8	344.5	357.8	325.9	288.1	260.7	243.0	228.8
77.5°	150.1	162.1	181.3	208.3	242.7	254.7	234.5	209.3	189.4	177.3	169.5
80°	113.3	123.0	139.3	161.5	182.2	188.9	177.0	157.8	143.7	137.0	130.4
82.5°	83.7	89.2	99.0	114.0	128.3	136.2	126.1	114.5	107.0	100.9	98.4
85°	42.2	45.1	49.7	55.5	64.5	67.4	63.7	60.7	56.3	52.6	52.6
87.5°	16.0	16.3	18.5	20.0	22.6	24.9	24.7	23.9	23.8	23.1	22.6
90°	2.9	4.4	6.6	8.1	9.6	11.8	14.0	16.2	18.4	17.7	18.4
92.5°	13.6	19.8	25.5	31.7	42.6	61.9	93.6	124.7	113.3	85.5	62.0
95°	27.2	35.3	47.9	67.0	95.8	158.4	268.2	389.1	437.0	354.5	265.3
97.5°	43.5	49.9	60.7	79.6	110.7	170.5	294.4	495.8	677.2	724.5	661.3
100°	55.2	60.4	70.8	88.4	117.2	168.7	277.8	471.6	697.9	843.0	868.8
102.5°	68.2	72.8	82.6	98.5	124.8	171.1	263.6	436.2	659.5	848.9	937.7
105°	87.7	92.1	100.9	115.0	137.8	177.6	253.4	392.8	592.5	804.0	958.0
107.5°	107.4	111.7	120.4	133.6	154.8	189.6	252.8	365.0	533.2	725.3	899.9
110°	121.6	125.3	133.4	145.9	166.5	199.7	255.7	354.5	499.6	675.7	844.5





TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.6	138.3	146.4	158.9	178.9	209.7	261.6	348.6	477.2	632.7	789.7
115°	154.0	158.4	165.8	178.3	198.2	226.2	271.2	346.4	453.2	580.7	717.0
117.5°	173.1	176.8	183.6	197.7	216.0	243.7	283.9	347.7	439.0	549.3	664.4
120°	184.9	188.6	196.0	210.0	228.5	255.0	293.3	350.1	432.5	532.8	636.7
122.5°	196.1	199.8	207.8	221.2	240.8	266.7	302.1	354.1	428.5	519.2	614.9
125°	211.5	215.9	224.0	238.0	257.9	283.7	316.1	360.3	423.0	501.8	585.8
127.5°	224.4	229.9	238.2	253.6	273.5	298.4	327.6	367.4	420.4	486.5	560.5
130°	232.1	238.7	247.6	263.1	283.0	307.3	335.3	372.1	418.6	478.2	544.6
132.5°	238.7	245.8	256.5	271.9	291.2	314.9	342.3	375.7	417.9	470.6	529.8
135°	249.1	257.2	268.2	283.7	303.6	326.4	351.5	381.0	417.1	460.5	509.9
137.5°	258.9	266.9	278.7	294.0	312.5	334.4	358.3	384.6	415.5	451.9	491.8
140°	266.0	273.4	285.2	299.9	318.3	339.7	361.8	386.9	414.9	446.6	481.2
142.5°	272.5	280.5	291.1	305.9	323.0	343.8	365.3	388.6	413.7	441.9	471.2
145°	283.0	289.6	300.7	313.2	330.2	349.3	369.2	389.8	411.9	435.5	459.1
147.5°	293.6	300.1	309.6	321.7	336.2	353.7	371.6	389.8	409.2	429.3	449.2
150°	300.7	306.5	316.1	326.4	339.7	356.7	372.1	389.8	406.8	425.2	442.1
152.5°	307.7	313.6	322.1	331.1	343.8	358.4	373.3	388.0	403.8	420.5	435.6
155°	319.1	323.5	330.8	338.9	349.3	361.8	373.6	386.2	398.7	413.4	425.9
157.5°	328.8	332.3	338.8	345.7	353.7	363.7	374.4	383.6	394.1	405.5	415.6
160°	335.3	338.3	344.1	349.3	356.7	365.5	374.4	382.5	390.6	400.1	409.7
162.5°	340.6	343.0	347.7	352.2	358.4	366.1	373.7	380.1	387.0	394.8	402.7
165°	347.8	349.3	353.0	355.9	361.1	366.9	372.1	376.5	381.7	387.6	393.5
167.5°	353.7	354.5	357.2	359.3	362.6	366.8	371.0	373.1	376.5	380.7	385.5
170°	356.7	357.4	359.6	361.1	362.6	366.3	369.2	370.7	372.9	376.5	380.2
172.5°	359.6	359.8	361.4	362.2	363.2	366.3	368.6	368.9	369.9	372.4	375.5
175°	362.6	361.8	363.3	363.3	364.0	365.5	366.9	366.3	366.3	367.7	369.2
177.5°	364.0	363.4	364.0	364.0	364.0	364.6	365.8	364.6	364.0	364.6	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1608.9	1609.5	1616.1	1620.8	1618.4	1621.4	1622.6
5°	1757.8	1784.5	1798.6	1808.9	1809.7	1810.4	1816.4
7.5°	1969.0	1997.5	2018.5	2050.1	2059.6	2070.4	2067.3
10°	2123.1	2165.2	2201.6	2220.8	2241.6	2271.9	2247.5
12.5°	2267.0	2341.8	2397.1	2427.0	2446.6	2452.7	2440.7
15°	2504.5	2602.3	2654.9	2653.4	2720.1	2749.0	2703.8
17.5°	2722.3	2812.5	2884.8	2921.9	2977.4	2989.7	2984.1
20°	2855.6	2954.2	3010.5	3074.2	3103.0	3129.0	3133.4
22.5°	2970.6	3059.0	3119.5	3172.5	3196.7	3209.0	3216.4
25°	3089.0	3158.6	3194.9	3213.4	3220.1	3218.6	3209.0
27.5°	3080.8	3086.2	3046.2	3006.9	2971.8	2932.2	2918.6
30°	3000.9	2938.6	2827.5	2764.6	2671.9	2598.6	2628.2
32.5°	2790.5	2666.6	2541.8	2404.2	2290.3	2257.9	2225.2
35°	2381.5	2163.8	2036.4	1888.2	1828.9	1769.7	1728.9
37.5°	1926.7	1758.3	1607.1	1510.2	1450.9	1413.3	1393.3
40°	1665.9	1514.1	1389.7	1311.2	1265.9	1223.7	1217.9
42.5°	1458.0	1316.8	1223.1	1160.6	1117.2	1099.3	1086.3
45°	1194.1	1095.6	1032.6	988.2	959.3	948.2	933.4
47.5°	1010.7	941.0	893.8	863.6	841.8	833.5	832.4
50°	908.1	850.4	815.6	791.8	774.9	771.8	760.1
52.5°	831.1	781.1	753.9	733.2	721.0	712.7	709.1
55°	721.5	688.2	663.7	651.9	642.2	634.0	634.0
57.5°	631.3	603.4	587.3	577.2	574.2	568.4	564.8
60°	575.6	551.9	539.3	530.4	524.4	525.2	518.5
62.5°	521.0	505.7	493.6	484.7	477.7	477.8	478.2
65°	443.7	431.9	423.0	420.0	415.6	410.4	411.9
67.5°	376.0	364.9	358.0	352.9	351.4	348.6	352.9
70°	327.4	319.2	314.1	309.6	308.1	308.9	312.6
72.5°	283.0	277.2	273.8	271.7	268.4	268.6	271.1
75°	222.3	217.8	214.8	212.6	211.9	211.9	211.9
77.5°	163.2	162.2	160.9	157.6	157.8	158.6	158.8
80°	128.9	126.7	125.9	124.4	122.2	120.7	124.4
82.5°	96.3	94.1	93.3	93.0	89.6	89.4	92.5
85°	51.8	49.7	50.3	49.7	49.7	48.9	48.9
87.5°	22.2	21.8	21.5	21.9	21.5	21.0	22.1
90°	19.1	19.9	21.4	20.6	21.4	22.1	21.4
92.5°	49.2	43.5	39.7	38.4	36.1	36.9	35.5
95°	179.8	140.7	114.2	100.2	93.6	88.4	85.5
97.5°	529.7	434.6	346.5	292.1	258.9	239.0	232.7
100°	809.1	722.9	618.2	543.8	490.0	461.3	462.0
102.5°	935.9	885.6	819.3	761.4	718.8	694.7	677.8
105°	1031.6	1045.7	1026.5	992.6	964.6	941.0	937.4
107.5°	1019.5	1084.1	1110.3	1111.0	1101.5	1093.5	1086.8
110°	980.1	1072.9	1124.5	1145.1	1151.0	1149.5	1148.1



TEST NUMBER: P332065-830

CATALOG NUMBER: S123DIP-S1165D805U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	928.2	1032.3	1098.5	1136.3	1154.6	1160.2	1160.5
115°	845.2	953.6	1033.9	1089.1	1121.5	1136.3	1140.0
117.5°	775.1	872.3	953.9	1011.4	1048.6	1069.8	1074.9
120°	736.1	824.6	899.0	957.2	998.5	1016.2	1020.6
122.5°	704.9	786.8	856.0	907.7	944.8	964.3	969.9
125°	666.2	736.9	795.9	843.0	875.4	893.8	899.0
127.5°	632.1	696.0	749.6	791.5	819.3	835.9	840.7
130°	610.9	670.6	720.7	759.8	786.3	801.7	807.7
132.5°	590.9	646.4	694.2	730.8	757.4	771.1	775.2
135°	562.2	610.1	652.1	688.2	710.4	723.6	728.8
137.5°	534.7	576.0	612.4	642.7	665.2	676.4	679.8
140°	518.8	554.1	585.8	613.9	634.4	646.3	645.5
142.5°	503.4	534.1	561.7	585.5	603.8	614.4	613.7
145°	483.4	507.0	528.4	546.8	562.2	568.2	569.6
147.5°	468.5	487.6	502.8	516.7	527.2	532.8	533.4
150°	459.1	474.6	488.5	499.6	507.7	512.2	512.2
152.5°	450.3	463.9	475.6	484.3	491.8	494.5	494.5
155°	437.7	448.7	457.6	464.2	470.1	471.6	472.3
157.5°	425.5	434.0	440.9	446.7	451.1	452.3	452.1
160°	417.8	425.2	430.4	435.5	439.9	439.9	439.2
162.5°	409.5	416.3	420.9	424.3	428.1	428.1	427.4
165°	397.9	403.1	406.8	409.7	412.6	411.9	411.9
167.5°	388.9	391.9	394.5	395.9	397.9	397.2	397.2
170°	382.5	385.4	386.9	387.6	389.1	388.3	388.3
172.5°	377.1	379.5	380.4	380.5	382.0	380.7	380.1
175°	369.9	371.4	371.4	371.4	372.1	371.4	370.7
177.5°	365.8	366.4	366.4	365.8	366.4	365.2	365.2
180°	364.0	364.0	364.0	364.0	364.0	364.0	364.0

(END OF REPORT)