

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: P332065-840

Luminaire Tested: **S123DIP-S1165D805U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332065-840
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-S1165D805U840-4F0-1E-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: 7881.6 lumens
Efficiency: N/A
Efficacy: 129.8 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

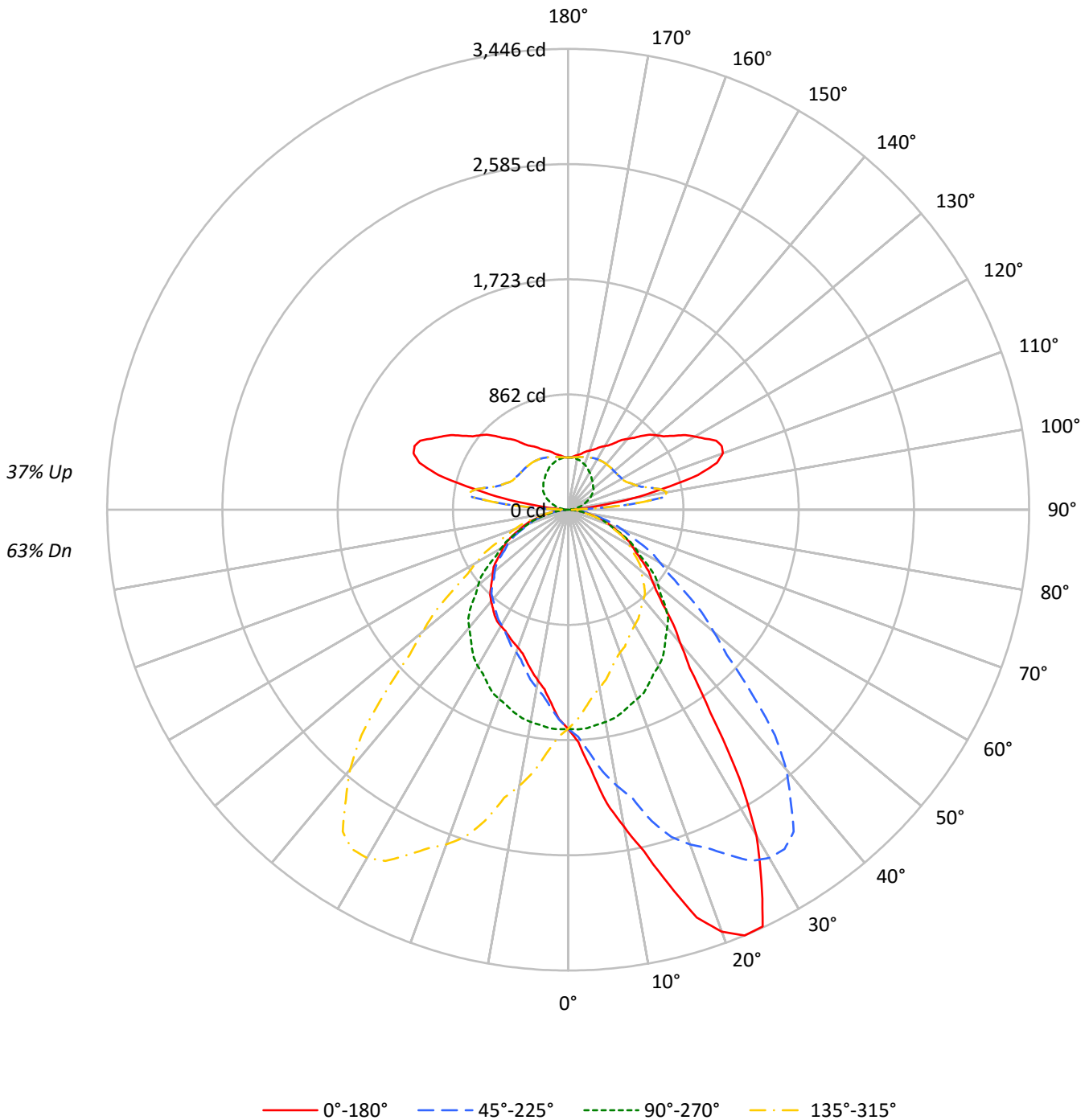
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17632	17632	17632	17632
5°	21028	17708	15693	17708
10°	26319	17618	14175	17618
15°	32282	17477	13196	17477
20°	38456	17255	12564	17255
25°	40834	16986	12423	16986
30°	34999	16789	12489	16789
35°	24341	16509	12620	16509
40°	18334	16183	12579	16183
45°	15224	15694	12420	15694
50°	13638	14699	12308	14699
55°	12748	13628	12153	13628
60°	11959	12508	12030	12508
65°	11240	11403	11645	11403
70°	10543	10140	11087	10140
75°	9441	8879	10168	8879
80°	8263	7277	8759	7277
85°	6472	5286	5891	5286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	2.0
10°-20°	517.4	6.6
20°-30°	868.4	11.0
30°-40°	983.3	12.5
40°-50°	881.8	11.2
50°-60°	711.6	9.0
60°-70°	495.9	6.3
70°-80°	260.6	3.3
80°-90°	66.8	0.8
90°-100°	217.1	2.8
100°-110°	614.6	7.8
110°-120°	604.6	7.7
120°-130°	482.3	6.1
130°-140°	380.2	4.8
140°-150°	283.8	3.6
150°-160°	197.8	2.5
160°-170°	116.2	1.5
170°-180°	37.8	0.5
0°-30°	1547.2	19.6
0°-40°	2530.6	32.1
0°-60°	4124.0	52.3
0°-90°	4947.3	62.8
90°-120°	1436.3	18.2
90°-150°	2582.6	32.8
90°-180°	2934.0	37.2
0°-180°	7881.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1638	1638	1638	1638	1638	
5°	1946	1639	1452	1639	1946	202
15°	2897	1568	1184	1568	2897	836
25°	3438	1430	1046	1430	3438	1508
35°	1852	1256	960	1256	1852	1204
45°	1000	1031	816	1031	1000	791
55°	679	726	648	726	679	610
65°	441	448	457	448	441	439
75°	227	214	244	214	227	243
85°	52	43	48	43	52	63
90°	23	2	23	2	23	15
95°	92	27	92	27	92	165
105°	1004	92	1004	92	1004	991
115°	1221	162	1221	162	1221	1187
125°	963	225	963	225	963	873
135°	781	264	781	264	781	606
145°	610	301	610	301	610	388
155°	506	342	506	342	506	236
165°	441	373	441	373	441	126
175°	397	389	397	389	397	39
180°	390	390	390	390	390	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1738.5	1737.2	1734.0	1736.6	1731.5	1724.4	1723.8	1717.5	1699.1	1697.8	1692.7
5°	1946.1	1939.7	1938.9	1938.1	1927.0	1912.0	1883.4	1881.0	1842.9	1823.8	1800.9
7.5°	2214.9	2218.3	2206.8	2196.6	2162.6	2140.2	2109.6	2070.4	2023.6	1976.1	1944.5
10°	2408.0	2434.2	2401.7	2379.4	2358.8	2319.9	2274.7	2218.3	2161.9	2096.1	2046.1
12.5°	2615.0	2627.9	2621.3	2600.4	2568.3	2509.1	2428.9	2366.9	2315.0	2205.3	2161.0
15°	2896.9	2945.4	2914.4	2843.0	2844.5	2788.1	2683.4	2568.3	2507.2	2411.2	2280.3
17.5°	3197.2	3203.3	3190.1	3130.6	3090.9	3013.4	2916.8	2806.4	2682.6	2566.5	2427.5
20°	3357.2	3352.4	3324.7	3293.8	3225.5	3165.2	3059.6	2936.6	2777.8	2663.6	2511.9
22.5°	3446.2	3438.2	3425.1	3399.1	3342.4	3277.5	3182.8	3048.4	2897.2	2739.8	2564.7
25°	3438.2	3448.5	3450.1	3442.9	3423.1	3384.3	3309.6	3202.5	3051.7	2849.3	2666.8
27.5°	3127.0	3141.7	3184.1	3221.7	3263.8	3306.6	3300.8	3247.7	3136.1	2961.3	2738.1
30°	2815.9	2784.2	2862.8	2962.0	3029.5	3148.5	3215.2	3219.1	3156.4	3006.5	2788.9
32.5°	2384.2	2419.1	2453.9	2576.0	2723.4	2857.1	2989.8	3096.7	3108.9	3009.0	2818.8
35°	1852.4	1896.1	1959.5	2023.1	2181.8	2318.3	2551.6	2754.8	2916.8	2938.2	2821.5
37.5°	1492.8	1514.3	1554.5	1618.1	1721.9	1883.9	2064.4	2321.2	2555.8	2730.3	2737.8
40°	1304.8	1311.1	1356.3	1404.8	1488.9	1622.2	1784.9	2012.0	2292.9	2536.6	2638.2
42.5°	1163.9	1177.8	1197.0	1243.5	1310.5	1410.9	1562.2	1749.7	2007.2	2287.6	2486.4
45°	1000.1	1015.9	1027.8	1058.7	1106.4	1173.9	1279.4	1450.9	1646.9	1936.5	2204.0
47.5°	891.8	893.0	901.9	925.2	957.7	1008.2	1082.9	1193.1	1373.0	1608.0	1882.6
50°	814.4	827.0	830.2	848.4	873.8	911.1	973.0	1066.7	1214.4	1420.7	1673.0
52.5°	759.7	763.6	772.4	785.6	807.8	836.9	890.5	963.8	1079.7	1255.6	1487.6
55°	679.3	679.3	688.1	698.4	711.1	737.3	773.1	827.0	915.1	1051.6	1243.6
57.5°	605.1	609.0	615.2	618.4	629.2	646.5	676.4	717.3	783.0	888.1	1040.9
60°	555.5	562.7	561.9	568.3	577.8	591.3	616.7	650.1	708.7	792.8	921.5
62.5°	512.4	511.9	511.8	519.4	528.9	541.8	558.3	587.1	637.0	711.7	821.1
65°	441.3	439.7	445.2	450.0	453.2	462.7	475.4	500.8	534.1	589.7	674.6
67.5°	378.1	373.5	376.5	378.1	383.5	390.9	402.8	418.6	445.0	489.7	553.7
70°	335.0	330.9	330.1	331.7	336.5	342.0	350.8	365.9	390.5	426.2	473.0
72.5°	290.4	287.8	287.6	291.1	293.4	297.0	303.2	317.0	336.5	363.3	407.0
75°	227.0	227.0	227.0	227.8	230.1	233.4	238.1	245.2	260.3	279.3	308.7
77.5°	170.2	170.0	169.1	168.8	172.4	173.8	174.9	181.6	190.0	202.9	224.3
80°	133.3	129.4	131.0	133.3	134.9	135.7	138.1	139.7	146.8	154.0	169.1
82.5°	99.1	95.7	96.0	99.7	100.0	100.8	103.2	105.4	108.1	114.6	122.7
85°	52.4	52.4	53.2	53.2	53.9	53.2	55.5	56.4	56.4	60.3	65.0
87.5°	23.6	22.5	23.0	23.4	23.0	23.3	23.8	24.2	24.7	25.5	25.7
90°	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7	19.0	19.7	17.4
92.5°	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4	91.6	121.4	133.6
95°	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3	379.8	468.2	416.9
97.5°	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5	776.3	725.6	531.2
100°	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9	903.2	747.7	505.3
102.5°	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7	909.6	706.6	467.4
105°	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4	861.4	634.8	420.8
107.5°	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2	777.1	571.3	391.1
110°	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8	724.0	535.3	379.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1	677.9	511.3	373.4
115°	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2	622.2	485.5	371.1
117.5°	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9	588.5	470.4	372.5
120°	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2	570.9	463.4	375.1
122.5°	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8	556.3	459.1	379.4
125°	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6	537.7	453.2	386.1
127.5°	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6	521.3	450.4	393.6
130°	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5	512.4	448.5	398.7
132.5°	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6	504.2	447.8	402.5
135°	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3	493.4	446.9	408.2
137.5°	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9	484.1	445.1	412.0
140°	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5	478.5	444.5	414.5
142.5°	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8	473.4	443.2	416.4
145°	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9	466.7	441.3	417.7
147.5°	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3	460.0	438.4	417.7
150°	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7	455.6	435.9	417.7
152.5°	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8	450.5	432.6	415.8
155°	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4	442.9	427.2	413.7
157.5°	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2	434.4	422.2	411.0
160°	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0	428.7	418.5	409.8
162.5°	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4	423.0	414.7	407.3
165°	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6	415.3	409.0	403.4
167.5°	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0	407.9	403.3	399.7
170°	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4	403.4	399.5	397.2
172.5°	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3	399.0	396.4	395.3
175°	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6	393.9	392.4	392.4
177.5°	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3	390.6	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1688.9	1683.8	1678.8	1669.9	1662.2	1651.4	1648.3	1644.5	1633.1	1623.0	1615.3
5°	1792.1	1773.0	1745.2	1719.9	1699.3	1671.5	1655.6	1638.9	1615.1	1593.7	1576.2
7.5°	1900.1	1862.6	1819.4	1772.7	1729.3	1687.4	1653.6	1623.4	1590.0	1558.4	1533.9
10°	1985.8	1931.8	1871.5	1806.4	1750.8	1696.9	1651.6	1611.9	1569.1	1531.8	1500.9
12.5°	2083.6	2003.6	1920.4	1841.3	1775.6	1700.7	1645.9	1595.5	1546.9	1502.0	1467.2
15°	2199.3	2097.7	1999.2	1890.6	1790.5	1696.9	1631.8	1568.3	1512.0	1465.9	1421.5
17.5°	2304.7	2189.6	2059.9	1927.6	1807.1	1696.0	1604.8	1533.1	1462.6	1406.2	1361.9
20°	2364.4	2233.4	2086.6	1949.2	1815.9	1692.1	1592.2	1506.4	1430.2	1370.7	1320.7
22.5°	2415.8	2262.6	2110.7	1963.9	1815.3	1681.9	1568.6	1480.4	1397.9	1339.6	1286.4
25°	2469.1	2285.8	2133.4	1961.2	1795.3	1657.2	1530.2	1430.2	1347.7	1279.4	1224.7
27.5°	2514.9	2284.2	2103.3	1918.1	1763.8	1625.5	1489.9	1382.6	1294.9	1220.8	1165.3
30°	2545.3	2287.3	2072.2	1889.0	1733.4	1590.5	1458.8	1350.8	1258.8	1183.4	1130.9
32.5°	2564.4	2285.4	2043.7	1848.4	1685.2	1558.7	1425.1	1313.3	1218.8	1144.7	1094.2
35°	2575.5	2271.5	1994.5	1764.3	1607.2	1484.2	1372.3	1256.4	1157.2	1088.1	1031.0
37.5°	2553.2	2242.1	1937.3	1683.3	1511.4	1390.2	1296.1	1197.3	1102.4	1026.4	977.1
40°	2518.3	2223.1	1892.9	1626.3	1445.3	1328.6	1248.5	1151.7	1057.9	985.7	939.7
42.5°	2451.6	2184.3	1844.0	1562.8	1376.7	1260.0	1186.2	1105.3	1016.7	948.9	902.9
45°	2289.0	2100.0	1770.7	1467.5	1275.5	1154.8	1089.7	1031.0	950.8	884.9	845.3
47.5°	2063.3	1973.3	1664.7	1367.1	1169.7	1053.7	986.0	938.8	880.2	827.0	788.9
50°	1906.4	1869.1	1592.9	1298.5	1099.2	985.7	920.7	877.8	835.8	782.5	747.6
52.5°	1725.5	1748.5	1509.1	1227.3	1027.5	915.9	854.6	820.6	782.4	738.7	708.3
55°	1470.7	1554.0	1364.3	1107.9	920.7	814.4	756.4	726.2	704.0	671.5	645.3
57.5°	1232.1	1338.2	1207.8	984.9	815.8	724.0	668.4	635.6	621.3	604.3	583.7
60°	1090.6	1195.3	1096.1	902.4	745.3	657.9	608.7	581.0	566.6	554.8	537.3
62.5°	964.1	1070.2	986.8	818.6	676.0	595.1	552.2	525.1	514.0	507.8	492.9
65°	790.5	881.8	826.2	688.1	577.0	505.5	466.7	447.7	437.3	434.9	425.5
67.5°	643.4	712.9	672.4	570.8	483.3	421.6	388.6	372.4	364.5	363.7	356.5
70°	546.8	611.9	581.0	488.9	413.5	365.1	336.5	322.2	317.5	316.7	312.8
72.5°	471.9	517.4	492.7	415.9	357.6	313.7	292.7	277.8	272.4	273.5	270.8
75°	349.2	383.3	369.1	315.9	269.0	240.4	223.0	213.5	208.7	211.2	207.9
77.5°	251.3	272.9	260.0	223.2	194.3	173.7	160.8	154.9	150.7	150.5	149.1
80°	189.7	202.4	195.2	173.0	149.3	131.8	121.4	117.4	115.1	114.3	113.5
82.5°	135.1	145.9	137.4	122.2	106.0	95.5	89.7	84.4	82.7	83.2	82.4
85°	68.3	72.2	69.1	59.5	53.2	48.4	45.2	42.8	41.3	42.1	40.5
87.5°	26.5	26.7	24.2	21.4	19.8	17.5	17.2	15.6	14.6	14.9	14.7
90°	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6	3.1	4.7	7.1
92.5°	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8	14.5	21.2	27.4
95°	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9	29.2	37.9	51.3
97.5°	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7	46.6	53.4	65.0
100°	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5	59.2	64.7	75.8
102.5°	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7	73.1	78.0	88.5
105°	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6	93.9	98.7	108.2
107.5°	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7	115.1	119.7	129.0
110°	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9	130.3	134.2	142.9



TEST NUMBER: P332065-840

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8	144.2	148.1	156.8
115°	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9	165.0	169.8	177.6
117.5°	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9	185.5	189.5	196.7
120°	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8	198.1	202.1	210.1
122.5°	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8	210.2	214.1	222.7
125°	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0	226.6	231.4	240.0
127.5°	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1	240.4	246.3	255.2
130°	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3	248.7	255.8	265.3
132.5°	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7	255.7	263.4	274.8
135°	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7	266.9	275.6	287.4
137.5°	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1	277.4	286.0	298.6
140°	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0	285.0	293.0	305.6
142.5°	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6	292.0	300.5	311.8
145°	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8	303.2	310.3	322.1
147.5°	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2	314.6	321.5	331.7
150°	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3	322.1	328.4	338.7
152.5°	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5	329.7	336.0	345.1
155°	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8	341.8	346.6	354.5
157.5°	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6	352.2	356.1	363.0
160°	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2	359.2	362.4	368.7
162.5°	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0	365.0	367.5	372.5
165°	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4	372.6	374.3	378.2
167.5°	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9	379.0	379.8	382.7
170°	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7	382.1	382.9	385.3
172.5°	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3	385.3	385.5	387.2
175°	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2	388.5	387.7	389.2
177.5°	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6	390.0	389.4	390.0
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332065-840

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1610.8	1606.4	1600.0	1590.5	1582.9	1570.8	1570.8	1572.8	1572.8	1572.2	1570.8
5°	1562.0	1550.0	1535.8	1519.1	1501.7	1484.2	1481.0	1474.6	1469.9	1466.7	1462.8
7.5°	1510.4	1489.2	1468.4	1445.1	1423.8	1406.2	1394.0	1383.8	1377.4	1370.4	1365.2
10°	1475.4	1449.3	1424.6	1400.1	1373.0	1351.6	1338.2	1328.6	1321.5	1315.1	1311.9
12.5°	1434.2	1404.2	1377.1	1353.7	1324.1	1302.1	1289.3	1284.8	1276.4	1263.0	1256.1
15°	1373.8	1346.0	1313.5	1277.8	1263.5	1236.6	1221.4	1214.4	1209.5	1199.2	1196.1
17.5°	1322.2	1285.9	1249.4	1222.7	1196.2	1174.3	1165.9	1157.0	1150.6	1142.3	1139.7
20°	1281.0	1248.5	1215.1	1186.6	1158.7	1135.0	1127.8	1121.5	1115.1	1111.2	1107.9
22.5°	1239.1	1206.6	1178.9	1152.3	1122.6	1107.0	1099.2	1092.3	1087.8	1085.1	1082.0
25°	1180.2	1151.7	1120.6	1096.8	1073.1	1062.7	1057.9	1054.0	1050.9	1046.8	1046.0
27.5°	1127.5	1096.4	1071.3	1049.0	1032.0	1023.4	1018.8	1016.8	1017.5	1019.0	1019.9
30°	1088.1	1059.6	1038.9	1019.9	1004.0	996.0	995.2	995.2	998.5	999.3	1000.8
32.5°	1052.0	1028.4	1007.8	989.4	977.3	971.9	974.9	974.9	977.4	979.6	982.4
35°	999.3	978.6	962.7	946.8	936.5	938.9	940.5	942.1	946.0	950.8	954.0
37.5°	948.9	931.0	914.4	902.1	897.4	901.6	905.4	908.8	913.3	917.1	920.2
40°	912.7	899.2	883.3	872.2	873.8	876.3	879.4	883.3	887.4	889.7	892.9
42.5°	879.1	864.9	852.9	843.6	845.9	848.9	850.8	852.9	857.5	861.8	863.6
45°	827.8	816.7	805.6	800.0	801.6	803.2	804.8	807.2	811.1	814.4	815.1
47.5°	770.2	762.4	755.0	749.5	752.0	751.4	753.6	758.6	759.8	761.7	766.2
50°	733.4	726.2	717.5	715.9	715.9	715.9	716.7	723.1	723.1	726.2	729.4
52.5°	692.8	688.1	682.6	679.7	678.4	678.4	681.8	685.0	686.2	690.6	693.9
55°	632.6	627.8	623.0	620.7	619.0	620.7	627.0	628.5	632.6	634.9	637.3
57.5°	569.9	566.2	562.4	561.1	560.8	562.9	566.3	571.1	572.1	579.4	583.0
60°	528.6	523.0	519.9	519.9	518.3	525.4	523.8	531.8	533.3	538.2	543.7
62.5°	486.0	478.6	477.4	477.4	479.6	481.6	483.8	487.4	491.4	497.5	501.8
65°	417.5	413.5	419.1	418.3	416.7	421.4	421.4	425.5	430.2	435.8	444.4
67.5°	352.5	350.5	350.9	350.9	353.4	356.1	358.3	361.7	367.5	373.3	379.1
70°	308.7	311.1	307.2	310.3	312.8	313.5	315.1	319.8	326.2	330.1	336.5
72.5°	266.2	266.0	266.5	267.8	270.1	271.6	273.2	278.6	285.6	288.9	294.0
75°	204.8	204.0	206.3	206.3	210.4	211.9	213.5	215.9	222.3	227.0	231.0
77.5°	149.6	150.5	150.0	152.7	151.6	151.9	156.8	159.3	159.9	169.3	171.3
80°	112.7	114.3	115.1	115.8	116.6	115.1	120.7	123.0	123.0	128.6	132.5
82.5°	81.0	81.9	84.0	84.7	84.9	86.5	86.9	88.8	90.7	93.0	98.3
85°	40.5	42.8	43.6	42.8	43.6	42.1	44.4	45.2	46.0	46.0	46.0
87.5°	14.4	15.3	15.2	16.4	16.2	17.3	17.2	16.1	16.2	18.3	16.1
90°	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7	20.5	21.3	22.9
92.5°	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4	52.7	46.6	42.5
95°	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3	192.7	150.8	122.4
97.5°	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5	567.5	465.6	371.2
100°	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9	866.9	774.6	662.4
102.5°	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7	1002.7	948.9	877.8
105°	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4	1105.3	1120.3	1099.8
107.5°	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2	1092.4	1161.5	1189.6
110°	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8	1050.1	1149.5	1204.9



TEST NUMBER: P332065-840

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1	994.5	1106.0	1177.0
115°	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2	905.5	1021.7	1107.7
117.5°	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9	830.4	934.6	1022.0
120°	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2	788.7	883.5	963.2
122.5°	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8	755.3	843.0	917.2
125°	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6	713.8	789.5	852.7
127.5°	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6	677.2	745.7	803.1
130°	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5	654.5	718.5	772.1
132.5°	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6	633.1	692.6	743.8
135°	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3	602.4	653.7	698.7
137.5°	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9	572.9	617.1	656.1
140°	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5	555.8	593.7	627.6
142.5°	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8	539.4	572.3	601.8
145°	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9	518.0	543.2	566.1
147.5°	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3	502.0	522.4	538.7
150°	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7	491.9	508.5	523.4
152.5°	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8	482.4	497.1	509.6
155°	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4	469.0	480.8	490.3
157.5°	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2	455.9	465.0	472.4
160°	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0	447.7	455.6	461.1
162.5°	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4	438.8	446.1	451.0
165°	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6	426.4	431.9	435.9
167.5°	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0	416.7	419.9	422.7
170°	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4	409.8	412.9	414.5
172.5°	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3	404.0	406.6	407.6
175°	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6	396.4	397.9	397.9
177.5°	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3	391.9	392.5	392.5
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332065-840

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1566.4	1565.8	1570.2	1567.0	1570.2	1565.8	1566.4	1570.8	1572.2	1572.8	1572.8
5°	1457.9	1460.4	1452.4	1452.4	1452.4	1460.4	1457.9	1462.8	1466.7	1469.9	1474.6
7.5°	1361.5	1358.0	1358.3	1354.0	1358.3	1358.0	1361.5	1365.2	1370.4	1377.4	1383.8
10°	1302.4	1297.7	1296.1	1296.9	1296.1	1297.7	1302.4	1311.9	1315.1	1321.5	1328.6
12.5°	1253.5	1252.5	1242.1	1242.2	1242.1	1252.5	1253.5	1256.1	1263.0	1276.4	1284.8
15°	1196.1	1181.0	1179.4	1184.2	1179.4	1181.0	1196.1	1196.1	1199.2	1209.5	1214.4
17.5°	1138.4	1130.5	1130.9	1128.6	1130.9	1130.5	1138.4	1139.7	1142.3	1150.6	1157.0
20°	1107.9	1103.2	1102.4	1096.8	1102.4	1103.2	1107.9	1107.9	1111.2	1115.1	1121.5
22.5°	1080.1	1078.4	1078.9	1072.8	1078.9	1078.4	1080.1	1082.0	1085.1	1087.8	1092.3
25°	1045.3	1049.2	1046.0	1046.0	1046.0	1049.2	1045.3	1046.0	1046.8	1050.9	1054.0
27.5°	1021.8	1021.6	1020.1	1020.1	1020.1	1021.6	1021.8	1019.9	1019.0	1017.5	1016.8
30°	1004.0	1003.2	1004.8	1004.8	1004.8	1003.2	1004.0	1000.8	999.3	998.5	995.2
32.5°	986.2	987.3	987.6	988.3	987.6	987.3	986.2	982.4	979.6	977.4	974.9
35°	958.8	959.6	961.9	960.4	961.9	959.6	958.8	954.0	950.8	946.0	942.1
37.5°	921.6	925.2	924.4	925.7	924.4	925.2	921.6	920.2	917.1	913.3	908.8
40°	893.6	896.1	895.2	895.2	895.2	896.1	893.6	892.9	889.7	887.4	883.3
42.5°	865.2	866.9	864.7	863.5	864.7	866.9	865.2	863.6	861.8	857.5	852.9
45°	818.3	816.7	819.1	815.9	819.1	816.7	818.3	815.1	814.4	811.1	807.2
47.5°	765.9	767.5	768.1	770.5	768.1	767.5	765.9	766.2	761.7	759.8	758.6
50°	730.9	735.7	735.7	735.0	735.7	735.7	730.9	729.4	726.2	723.1	723.1
52.5°	696.7	698.9	702.1	702.0	702.1	698.9	696.7	693.9	690.6	686.2	685.0
55°	643.7	645.3	646.8	647.6	646.8	645.3	643.7	637.3	634.9	632.6	628.5
57.5°	588.8	588.1	591.9	593.0	591.9	588.1	588.8	583.0	579.4	572.1	571.1
60°	550.0	550.0	556.3	558.8	556.3	550.0	550.0	543.7	538.2	533.3	531.8
62.5°	508.8	511.3	517.7	514.3	517.7	511.3	508.8	501.8	497.5	491.4	487.4
65°	448.4	454.7	453.9	457.2	453.9	454.7	448.4	444.4	435.8	430.2	425.5
67.5°	385.4	389.4	395.1	395.6	395.1	389.4	385.4	379.1	373.3	367.5	361.7
70°	342.8	346.8	350.0	352.3	350.0	346.8	342.8	336.5	330.1	326.2	319.8
72.5°	301.6	303.7	311.2	307.9	311.2	303.7	301.6	294.0	288.9	285.6	278.6
75°	236.5	242.1	246.8	244.5	246.8	242.1	236.5	231.0	227.0	222.3	215.9
77.5°	174.9	180.5	182.7	180.7	182.7	180.5	174.9	171.3	169.3	159.9	159.3
80°	138.1	137.3	142.1	141.3	142.1	137.3	138.1	132.5	128.6	123.0	123.0
82.5°	101.3	100.5	102.7	103.2	102.7	100.5	101.3	98.3	93.0	90.7	88.8
85°	49.2	51.6	48.4	47.7	48.4	51.6	49.2	46.0	46.0	46.0	45.2
87.5°	15.9	16.1	15.6	14.7	15.6	16.1	15.9	16.1	18.3	16.2	16.1
90°	22.1	22.9	23.7	22.9	23.7	22.9	22.1	22.9	21.3	20.5	19.7
92.5°	41.1	38.7	39.5	38.1	39.5	38.7	41.1	42.5	46.6	52.7	66.4
95°	107.3	100.3	94.7	91.6	94.7	100.3	107.3	122.4	150.8	192.7	284.3
97.5°	313.0	277.4	256.1	249.3	256.1	277.4	313.0	371.2	465.6	567.5	708.5
100°	582.7	525.0	494.2	495.0	494.2	525.0	582.7	662.4	774.6	866.9	930.9
102.5°	815.8	770.1	744.4	726.2	744.4	770.1	815.8	877.8	948.9	1002.7	1004.7
105°	1063.5	1033.5	1008.2	1004.3	1008.2	1033.5	1063.5	1099.8	1120.3	1105.3	1026.4
107.5°	1190.3	1180.2	1171.6	1164.4	1171.6	1180.2	1190.3	1189.6	1161.5	1092.4	964.2
110°	1226.9	1233.2	1231.6	1230.1	1231.6	1233.2	1226.9	1204.9	1149.5	1050.1	904.8



TEST NUMBER: P332065-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1217.5	1237.1	1243.0	1243.3	1243.0	1237.1	1217.5	1177.0	1106.0	994.5	846.1
115°	1166.9	1201.6	1217.5	1221.4	1217.5	1201.6	1166.9	1107.7	1021.7	905.5	768.2
117.5°	1083.7	1123.5	1146.2	1151.7	1146.2	1123.5	1083.7	1022.0	934.6	830.4	711.9
120°	1025.6	1069.9	1088.7	1093.5	1088.7	1069.9	1025.6	963.2	883.5	788.7	682.2
122.5°	972.5	1012.3	1033.2	1039.2	1033.2	1012.3	972.5	917.2	843.0	755.3	658.8
125°	903.2	938.0	957.7	963.2	957.7	938.0	903.2	852.7	789.5	713.8	627.6
127.5°	848.1	877.8	895.6	900.7	895.6	877.8	848.1	803.1	745.7	677.2	600.6
130°	814.1	842.4	859.0	865.4	859.0	842.4	814.1	772.1	718.5	654.5	583.5
132.5°	783.0	811.5	826.2	830.6	826.2	811.5	783.0	743.8	692.6	633.1	567.6
135°	737.4	761.1	775.3	780.8	775.3	761.1	737.4	698.7	653.7	602.4	546.3
137.5°	688.6	712.7	724.7	728.3	724.7	712.7	688.6	656.1	617.1	572.9	526.9
140°	657.7	679.7	692.5	691.7	692.5	679.7	657.7	627.6	593.7	555.8	515.5
142.5°	627.3	646.9	658.3	657.5	658.3	646.9	627.3	601.8	572.3	539.4	504.8
145°	585.8	602.4	608.7	610.3	608.7	602.4	585.8	566.1	543.2	518.0	491.9
147.5°	553.6	564.8	570.9	571.5	570.9	564.8	553.6	538.7	522.4	502.0	481.3
150°	535.3	544.0	548.8	548.8	548.8	544.0	535.3	523.4	508.5	491.9	473.7
152.5°	518.9	526.9	529.8	529.8	529.8	526.9	518.9	509.6	497.1	482.4	466.8
155°	497.4	503.7	505.3	506.0	505.3	503.7	497.4	490.3	480.8	469.0	456.4
157.5°	478.6	483.3	484.6	484.4	484.6	483.3	478.6	472.4	465.0	455.9	445.2
160°	466.7	471.3	471.3	470.6	471.3	471.3	466.7	461.1	455.6	447.7	439.0
162.5°	454.6	458.7	458.7	458.0	458.7	458.7	454.6	451.0	446.1	438.8	431.4
165°	439.0	442.1	441.3	441.3	441.3	442.1	439.0	435.9	431.9	426.4	421.6
167.5°	424.1	426.4	425.6	425.6	425.6	426.4	424.1	422.7	419.9	416.7	413.0
170°	415.3	416.9	416.1	416.1	416.1	416.9	415.3	414.5	412.9	409.8	407.4
172.5°	407.7	409.3	407.9	407.3	407.9	409.3	407.7	407.6	406.6	404.0	402.3
175°	397.9	398.7	397.9	397.2	397.9	398.7	397.9	397.9	397.9	396.4	395.6
177.5°	391.9	392.5	391.3	391.3	391.3	392.5	391.9	392.5	392.5	391.9	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332065-840

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1570.8	1570.8	1582.9	1590.5	1600.0	1606.4	1610.8	1615.3	1623.0	1633.1	1644.5
5°	1481.0	1484.2	1501.7	1519.1	1535.8	1550.0	1562.0	1576.2	1593.7	1615.1	1638.9
7.5°	1394.0	1406.2	1423.8	1445.1	1468.4	1489.2	1510.4	1533.9	1558.4	1590.0	1623.4
10°	1338.2	1351.6	1373.0	1400.1	1424.6	1449.3	1475.4	1500.9	1531.8	1569.1	1611.9
12.5°	1289.3	1302.1	1324.1	1353.7	1377.1	1404.2	1434.2	1467.2	1502.0	1546.9	1595.5
15°	1221.4	1236.6	1263.5	1277.8	1313.5	1346.0	1373.8	1421.5	1465.9	1512.0	1568.3
17.5°	1165.9	1174.3	1196.2	1222.7	1249.4	1285.9	1322.2	1361.9	1406.2	1462.6	1533.1
20°	1127.8	1135.0	1158.7	1186.6	1215.1	1248.5	1281.0	1320.7	1370.7	1430.2	1506.4
22.5°	1099.2	1107.0	1122.6	1152.3	1178.9	1206.6	1239.1	1286.4	1339.6	1397.9	1480.4
25°	1057.9	1062.7	1073.1	1096.8	1120.6	1151.7	1180.2	1224.7	1279.4	1347.7	1430.2
27.5°	1018.8	1023.4	1032.0	1049.0	1071.3	1096.4	1127.5	1165.3	1220.8	1294.9	1382.6
30°	995.2	996.0	1004.0	1019.9	1038.9	1059.6	1088.1	1130.9	1183.4	1258.8	1350.8
32.5°	974.9	971.9	977.3	989.4	1007.8	1028.4	1052.0	1094.2	1144.7	1218.8	1313.3
35°	940.5	938.9	936.5	946.8	962.7	978.6	999.3	1031.0	1088.1	1157.2	1256.4
37.5°	905.4	901.6	897.4	902.1	914.4	931.0	948.9	977.1	1026.4	1102.4	1197.3
40°	879.4	876.3	873.8	872.2	883.3	899.2	912.7	939.7	985.7	1057.9	1151.7
42.5°	850.8	848.9	845.9	843.6	852.9	864.9	879.1	902.9	948.9	1016.7	1105.3
45°	804.8	803.2	801.6	800.0	805.6	816.7	827.8	845.3	884.9	950.8	1031.0
47.5°	753.6	751.4	752.0	749.5	755.0	762.4	770.2	788.9	827.0	880.2	938.8
50°	716.7	715.9	715.9	715.9	717.5	726.2	733.4	747.6	782.5	835.8	877.8
52.5°	681.8	678.4	678.4	679.7	682.6	688.1	692.8	708.3	738.7	782.4	820.6
55°	627.0	620.7	619.0	620.7	623.0	627.8	632.6	645.3	671.5	704.0	726.2
57.5°	566.3	562.9	560.8	561.1	562.4	566.2	569.9	583.7	604.3	621.3	635.6
60°	523.8	525.4	518.3	519.9	519.9	523.0	528.6	537.3	554.8	566.6	581.0
62.5°	483.8	481.6	479.6	477.4	477.4	478.6	486.0	492.9	507.8	514.0	525.1
65°	421.4	421.4	416.7	418.3	419.1	413.5	417.5	425.5	434.9	437.3	447.7
67.5°	358.3	356.1	353.4	350.9	350.9	350.5	352.5	356.5	363.7	364.5	372.4
70°	315.1	313.5	312.8	310.3	307.2	311.1	308.7	312.8	316.7	317.5	322.2
72.5°	273.2	271.6	270.1	267.8	266.5	266.0	266.2	270.8	273.5	272.4	277.8
75°	213.5	211.9	210.4	206.3	206.3	204.0	204.8	207.9	211.2	208.7	213.5
77.5°	156.8	151.9	151.6	152.7	150.0	150.5	149.6	149.1	150.5	150.7	154.9
80°	120.7	115.1	116.6	115.8	115.1	114.3	112.7	113.5	114.3	115.1	117.4
82.5°	86.9	86.5	84.9	84.7	84.0	81.9	81.0	82.4	83.2	82.7	84.4
85°	44.4	42.1	43.6	42.8	43.6	42.8	40.5	40.5	42.1	41.3	42.8
87.5°	17.2	17.3	16.2	16.4	15.2	15.3	14.4	14.7	14.9	14.6	15.6
90°	19.0	19.7	17.4	15.0	12.6	10.3	8.7	7.1	4.7	3.1	1.6
92.5°	91.6	121.4	133.6	100.3	66.3	45.6	33.9	27.4	21.2	14.5	9.8
95°	379.8	468.2	416.9	287.4	169.8	102.6	71.8	51.3	37.9	29.2	26.9
97.5°	776.3	725.6	531.2	315.4	182.7	118.6	85.2	65.0	53.4	46.6	45.7
100°	903.2	747.7	505.3	297.6	180.8	125.5	94.7	75.8	64.7	59.2	58.5
102.5°	909.6	706.6	467.4	282.5	183.3	133.7	105.5	88.5	78.0	73.1	71.7
105°	861.4	634.8	420.8	271.6	190.3	147.6	123.2	108.2	98.7	93.9	91.6
107.5°	777.1	571.3	391.1	270.8	203.2	165.8	143.1	129.0	119.7	115.1	112.7
110°	724.0	535.3	379.8	274.0	214.0	178.4	156.3	142.9	134.2	130.3	127.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	677.9	511.3	373.4	280.2	224.7	191.7	170.3	156.8	148.1	144.2	141.8
115°	622.2	485.5	371.1	290.5	242.4	212.4	191.1	177.6	169.8	165.0	161.9
117.5°	588.5	470.4	372.5	304.2	261.2	231.5	211.8	196.7	189.5	185.5	181.9
120°	570.9	463.4	375.1	314.3	273.2	244.8	225.0	210.1	202.1	198.1	195.8
122.5°	556.3	459.1	379.4	323.7	285.8	258.0	237.0	222.7	214.1	210.2	207.8
125°	537.7	453.2	386.1	338.7	304.0	276.3	255.0	240.0	231.4	226.6	225.0
127.5°	521.3	450.4	393.6	351.0	319.7	293.1	271.8	255.2	246.3	240.4	238.1
130°	512.4	448.5	398.7	359.2	329.2	303.2	281.9	265.3	255.8	248.7	246.3
132.5°	504.2	447.8	402.5	366.8	337.4	312.0	291.3	274.8	263.4	255.7	252.7
135°	493.4	446.9	408.2	376.6	349.7	325.3	304.0	287.4	275.6	266.9	263.7
137.5°	484.1	445.1	412.0	383.8	358.3	334.8	315.0	298.6	286.0	277.4	274.1
140°	478.5	444.5	414.5	387.7	364.0	341.0	321.3	305.6	293.0	285.0	281.0
142.5°	473.4	443.2	416.4	391.4	368.4	346.1	327.7	311.8	300.5	292.0	288.6
145°	466.7	441.3	417.7	395.6	374.3	353.8	335.6	322.1	310.3	303.2	300.8
147.5°	460.0	438.4	417.7	398.1	379.0	360.2	344.7	331.7	321.5	314.6	313.2
150°	455.6	435.9	417.7	398.7	382.1	364.0	349.7	338.7	328.4	322.1	321.3
152.5°	450.5	432.6	415.8	400.0	384.1	368.4	354.8	345.1	336.0	329.7	329.5
155°	442.9	427.2	413.7	400.3	387.7	374.3	363.1	354.5	346.6	341.8	341.8
157.5°	434.4	422.2	411.0	401.1	389.7	379.0	370.4	363.0	356.1	352.2	351.6
160°	428.7	418.5	409.8	401.1	391.6	382.1	374.3	368.7	362.4	359.2	359.2
162.5°	423.0	414.7	407.3	400.4	392.2	384.1	377.4	372.5	367.5	365.0	365.0
165°	415.3	409.0	403.4	398.7	393.1	386.9	381.3	378.2	374.3	372.6	373.4
167.5°	407.9	403.3	399.7	397.5	393.0	388.5	385.0	382.7	379.8	379.0	379.9
170°	403.4	399.5	397.2	395.6	392.4	388.5	386.9	385.3	382.9	382.1	383.7
172.5°	399.0	396.4	395.3	395.0	392.4	389.1	388.1	387.2	385.5	385.3	386.3
175°	393.9	392.4	392.4	393.1	391.6	390.0	389.2	389.2	387.7	388.5	389.2
177.5°	390.6	390.0	390.6	391.9	390.6	390.0	390.0	390.0	389.4	390.0	390.6
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



TEST NUMBER: P332065-840

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1648.3	1651.4	1662.2	1669.9	1678.8	1683.8	1688.9	1692.7	1697.8	1699.1	1717.5
5°	1655.6	1671.5	1699.3	1719.9	1745.2	1773.0	1792.1	1800.9	1823.8	1842.9	1881.0
7.5°	1653.6	1687.4	1729.3	1772.7	1819.4	1862.6	1900.1	1944.5	1976.1	2023.6	2070.4
10°	1651.6	1696.9	1750.8	1806.4	1871.5	1931.8	1985.8	2046.1	2096.1	2161.9	2218.3
12.5°	1645.9	1700.7	1775.6	1841.3	1920.4	2003.6	2083.6	2161.0	2205.3	2315.0	2366.9
15°	1631.8	1696.9	1790.5	1890.6	1999.2	2097.7	2199.3	2280.3	2411.2	2507.2	2568.3
17.5°	1604.8	1696.0	1807.1	1927.6	2059.9	2189.6	2304.7	2427.5	2566.5	2682.6	2806.4
20°	1592.2	1692.1	1815.9	1949.2	2086.6	2233.4	2364.4	2511.9	2663.6	2777.8	2936.6
22.5°	1568.6	1681.9	1815.3	1963.9	2110.7	2262.6	2415.8	2564.7	2739.8	2897.2	3048.4
25°	1530.2	1657.2	1795.3	1961.2	2133.4	2285.8	2469.1	2666.8	2849.3	3051.7	3202.5
27.5°	1489.9	1625.5	1763.8	1918.1	2103.3	2284.2	2514.9	2738.1	2961.3	3136.1	3247.7
30°	1458.8	1590.5	1733.4	1889.0	2072.2	2287.3	2545.3	2788.9	3006.5	3156.4	3219.1
32.5°	1425.1	1558.7	1685.2	1848.4	2043.7	2285.4	2564.4	2818.8	3009.0	3108.9	3096.7
35°	1372.3	1484.2	1607.2	1764.3	1994.5	2271.5	2575.5	2821.5	2938.2	2916.8	2754.8
37.5°	1296.1	1390.2	1511.4	1683.3	1937.3	2242.1	2553.2	2737.8	2730.3	2555.8	2321.2
40°	1248.5	1328.6	1445.3	1626.3	1892.9	2223.1	2518.3	2638.2	2536.6	2292.9	2012.0
42.5°	1186.2	1260.0	1376.7	1562.8	1844.0	2184.3	2451.6	2486.4	2287.6	2007.2	1749.7
45°	1089.7	1154.8	1275.5	1467.5	1770.7	2100.0	2289.0	2204.0	1936.5	1646.9	1450.9
47.5°	986.0	1053.7	1169.7	1367.1	1664.7	1973.3	2063.3	1882.6	1608.0	1373.0	1193.1
50°	920.7	985.7	1099.2	1298.5	1592.9	1869.1	1906.4	1673.0	1420.7	1214.4	1066.7
52.5°	854.6	915.9	1027.5	1227.3	1509.1	1748.5	1725.5	1487.6	1255.6	1079.7	963.8
55°	756.4	814.4	920.7	1107.9	1364.3	1554.0	1470.7	1243.6	1051.6	915.1	827.0
57.5°	668.4	724.0	815.8	984.9	1207.8	1338.2	1232.1	1040.9	888.1	783.0	717.3
60°	608.7	657.9	745.3	902.4	1096.1	1195.3	1090.6	921.5	792.8	708.7	650.1
62.5°	552.2	595.1	676.0	818.6	986.8	1070.2	964.1	821.1	711.7	637.0	587.1
65°	466.7	505.5	577.0	688.1	826.2	881.8	790.5	674.6	589.7	534.1	500.8
67.5°	388.6	421.6	483.3	570.8	672.4	712.9	643.4	553.7	489.7	445.0	418.6
70°	336.5	365.1	413.5	488.9	581.0	611.9	546.8	473.0	426.2	390.5	365.9
72.5°	292.7	313.7	357.6	415.9	492.7	517.4	471.9	407.0	363.3	336.5	317.0
75°	223.0	240.4	269.0	315.9	369.1	383.3	349.2	308.7	279.3	260.3	245.2
77.5°	160.8	173.7	194.3	223.2	260.0	272.9	251.3	224.3	202.9	190.0	181.6
80°	121.4	131.8	149.3	173.0	195.2	202.4	189.7	169.1	154.0	146.8	139.7
82.5°	89.7	95.5	106.0	122.2	137.4	145.9	135.1	122.7	114.6	108.1	105.4
85°	45.2	48.4	53.2	59.5	69.1	72.2	68.3	65.0	60.3	56.4	56.4
87.5°	17.2	17.5	19.8	21.4	24.2	26.7	26.5	25.7	25.5	24.7	24.2
90°	3.1	4.7	7.1	8.7	10.3	12.6	15.0	17.4	19.7	19.0	19.7
92.5°	14.5	21.2	27.4	33.9	45.6	66.3	100.3	133.6	121.4	91.6	66.4
95°	29.2	37.9	51.3	71.8	102.6	169.8	287.4	416.9	468.2	379.8	284.3
97.5°	46.6	53.4	65.0	85.2	118.6	182.7	315.4	531.2	725.6	776.3	708.5
100°	59.2	64.7	75.8	94.7	125.5	180.8	297.6	505.3	747.7	903.2	930.9
102.5°	73.1	78.0	88.5	105.5	133.7	183.3	282.5	467.4	706.6	909.6	1004.7
105°	93.9	98.7	108.2	123.2	147.6	190.3	271.6	420.8	634.8	861.4	1026.4
107.5°	115.1	119.7	129.0	143.1	165.8	203.2	270.8	391.1	571.3	777.1	964.2
110°	130.3	134.2	142.9	156.3	178.4	214.0	274.0	379.8	535.3	724.0	904.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.2	148.1	156.8	170.3	191.7	224.7	280.2	373.4	511.3	677.9	846.1
115°	165.0	169.8	177.6	191.1	212.4	242.4	290.5	371.1	485.5	622.2	768.2
117.5°	185.5	189.5	196.7	211.8	231.5	261.2	304.2	372.5	470.4	588.5	711.9
120°	198.1	202.1	210.1	225.0	244.8	273.2	314.3	375.1	463.4	570.9	682.2
122.5°	210.2	214.1	222.7	237.0	258.0	285.8	323.7	379.4	459.1	556.3	658.8
125°	226.6	231.4	240.0	255.0	276.3	304.0	338.7	386.1	453.2	537.7	627.6
127.5°	240.4	246.3	255.2	271.8	293.1	319.7	351.0	393.6	450.4	521.3	600.6
130°	248.7	255.8	265.3	281.9	303.2	329.2	359.2	398.7	448.5	512.4	583.5
132.5°	255.7	263.4	274.8	291.3	312.0	337.4	366.8	402.5	447.8	504.2	567.6
135°	266.9	275.6	287.4	304.0	325.3	349.7	376.6	408.2	446.9	493.4	546.3
137.5°	277.4	286.0	298.6	315.0	334.8	358.3	383.8	412.0	445.1	484.1	526.9
140°	285.0	293.0	305.6	321.3	341.0	364.0	387.7	414.5	444.5	478.5	515.5
142.5°	292.0	300.5	311.8	327.7	346.1	368.4	391.4	416.4	443.2	473.4	504.8
145°	303.2	310.3	322.1	335.6	353.8	374.3	395.6	417.7	441.3	466.7	491.9
147.5°	314.6	321.5	331.7	344.7	360.2	379.0	398.1	417.7	438.4	460.0	481.3
150°	322.1	328.4	338.7	349.7	364.0	382.1	398.7	417.7	435.9	455.6	473.7
152.5°	329.7	336.0	345.1	354.8	368.4	384.1	400.0	415.8	432.6	450.5	466.8
155°	341.8	346.6	354.5	363.1	374.3	387.7	400.3	413.7	427.2	442.9	456.4
157.5°	352.2	356.1	363.0	370.4	379.0	389.7	401.1	411.0	422.2	434.4	445.2
160°	359.2	362.4	368.7	374.3	382.1	391.6	401.1	409.8	418.5	428.7	439.0
162.5°	365.0	367.5	372.5	377.4	384.1	392.2	400.4	407.3	414.7	423.0	431.4
165°	372.6	374.3	378.2	381.3	386.9	393.1	398.7	403.4	409.0	415.3	421.6
167.5°	379.0	379.8	382.7	385.0	388.5	393.0	397.5	399.7	403.3	407.9	413.0
170°	382.1	382.9	385.3	386.9	388.5	392.4	395.6	397.2	399.5	403.4	407.4
172.5°	385.3	385.5	387.2	388.1	389.1	392.4	395.0	395.3	396.4	399.0	402.3
175°	388.5	387.7	389.2	389.2	390.0	391.6	393.1	392.4	392.4	393.9	395.6
177.5°	390.0	389.4	390.0	390.0	390.0	390.6	391.9	390.6	390.0	390.6	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1723.8	1724.4	1731.5	1736.6	1734.0	1737.2	1738.5
5°	1883.4	1912.0	1927.0	1938.1	1938.9	1939.7	1946.1
7.5°	2109.6	2140.2	2162.6	2196.6	2206.8	2218.3	2214.9
10°	2274.7	2319.9	2358.8	2379.4	2401.7	2434.2	2408.0
12.5°	2428.9	2509.1	2568.3	2600.4	2621.3	2627.9	2615.0
15°	2683.4	2788.1	2844.5	2843.0	2914.4	2945.4	2896.9
17.5°	2916.8	3013.4	3090.9	3130.6	3190.1	3203.3	3197.2
20°	3059.6	3165.2	3225.5	3293.8	3324.7	3352.4	3357.2
22.5°	3182.8	3277.5	3342.4	3399.1	3425.1	3438.2	3446.2
25°	3309.6	3384.3	3423.1	3442.9	3450.1	3448.5	3438.2
27.5°	3300.8	3306.6	3263.8	3221.7	3184.1	3141.7	3127.0
30°	3215.2	3148.5	3029.5	2962.0	2862.8	2784.2	2815.9
32.5°	2989.8	2857.1	2723.4	2576.0	2453.9	2419.1	2384.2
35°	2551.6	2318.3	2181.8	2023.1	1959.5	1896.1	1852.4
37.5°	2064.4	1883.9	1721.9	1618.1	1554.5	1514.3	1492.8
40°	1784.9	1622.2	1488.9	1404.8	1356.3	1311.1	1304.8
42.5°	1562.2	1410.9	1310.5	1243.5	1197.0	1177.8	1163.9
45°	1279.4	1173.9	1106.4	1058.7	1027.8	1015.9	1000.1
47.5°	1082.9	1008.2	957.7	925.2	901.9	893.0	891.8
50°	973.0	911.1	873.8	848.4	830.2	827.0	814.4
52.5°	890.5	836.9	807.8	785.6	772.4	763.6	759.7
55°	773.1	737.3	711.1	698.4	688.1	679.3	679.3
57.5°	676.4	646.5	629.2	618.4	615.2	609.0	605.1
60°	616.7	591.3	577.8	568.3	561.9	562.7	555.5
62.5°	558.3	541.8	528.9	519.4	511.8	511.9	512.4
65°	475.4	462.7	453.2	450.0	445.2	439.7	441.3
67.5°	402.8	390.9	383.5	378.1	376.5	373.5	378.1
70°	350.8	342.0	336.5	331.7	330.1	330.9	335.0
72.5°	303.2	297.0	293.4	291.1	287.6	287.8	290.4
75°	238.1	233.4	230.1	227.8	227.0	227.0	227.0
77.5°	174.9	173.8	172.4	168.8	169.1	170.0	170.2
80°	138.1	135.7	134.9	133.3	131.0	129.4	133.3
82.5°	103.2	100.8	100.0	99.7	96.0	95.7	99.1
85°	55.5	53.2	53.9	53.2	53.2	52.4	52.4
87.5°	23.8	23.3	23.0	23.4	23.0	22.5	23.6
90°	20.5	21.3	22.9	22.1	22.9	23.7	22.9
92.5°	52.7	46.6	42.5	41.1	38.7	39.5	38.1
95°	192.7	150.8	122.4	107.3	100.3	94.7	91.6
97.5°	567.5	465.6	371.2	313.0	277.4	256.1	249.3
100°	866.9	774.6	662.4	582.7	525.0	494.2	495.0
102.5°	1002.7	948.9	877.8	815.8	770.1	744.4	726.2
105°	1105.3	1120.3	1099.8	1063.5	1033.5	1008.2	1004.3
107.5°	1092.4	1161.5	1189.6	1190.3	1180.2	1171.6	1164.4
110°	1050.1	1149.5	1204.9	1226.9	1233.2	1231.6	1230.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	994.5	1106.0	1177.0	1217.5	1237.1	1243.0	1243.3
115°	905.5	1021.7	1107.7	1166.9	1201.6	1217.5	1221.4
117.5°	830.4	934.6	1022.0	1083.7	1123.5	1146.2	1151.7
120°	788.7	883.5	963.2	1025.6	1069.9	1088.7	1093.5
122.5°	755.3	843.0	917.2	972.5	1012.3	1033.2	1039.2
125°	713.8	789.5	852.7	903.2	938.0	957.7	963.2
127.5°	677.2	745.7	803.1	848.1	877.8	895.6	900.7
130°	654.5	718.5	772.1	814.1	842.4	859.0	865.4
132.5°	633.1	692.6	743.8	783.0	811.5	826.2	830.6
135°	602.4	653.7	698.7	737.4	761.1	775.3	780.8
137.5°	572.9	617.1	656.1	688.6	712.7	724.7	728.3
140°	555.8	593.7	627.6	657.7	679.7	692.5	691.7
142.5°	539.4	572.3	601.8	627.3	646.9	658.3	657.5
145°	518.0	543.2	566.1	585.8	602.4	608.7	610.3
147.5°	502.0	522.4	538.7	553.6	564.8	570.9	571.5
150°	491.9	508.5	523.4	535.3	544.0	548.8	548.8
152.5°	482.4	497.1	509.6	518.9	526.9	529.8	529.8
155°	469.0	480.8	490.3	497.4	503.7	505.3	506.0
157.5°	455.9	465.0	472.4	478.6	483.3	484.6	484.4
160°	447.7	455.6	461.1	466.7	471.3	471.3	470.6
162.5°	438.8	446.1	451.0	454.6	458.7	458.7	458.0
165°	426.4	431.9	435.9	439.0	442.1	441.3	441.3
167.5°	416.7	419.9	422.7	424.1	426.4	425.6	425.6
170°	409.8	412.9	414.5	415.3	416.9	416.1	416.1
172.5°	404.0	406.6	407.6	407.7	409.3	407.9	407.3
175°	396.4	397.9	397.9	397.9	398.7	397.9	397.2
177.5°	391.9	392.5	392.5	391.9	392.5	391.3	391.3
180°	390.0	390.0	390.0	390.0	390.0	390.0	390.0

(END OF REPORT)