

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: P333288-840

Luminaire Tested: **S125DIP-S1090D1205U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333288-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S1090D1205U840-4F0-1E-UDD-A4  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8899.3 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse

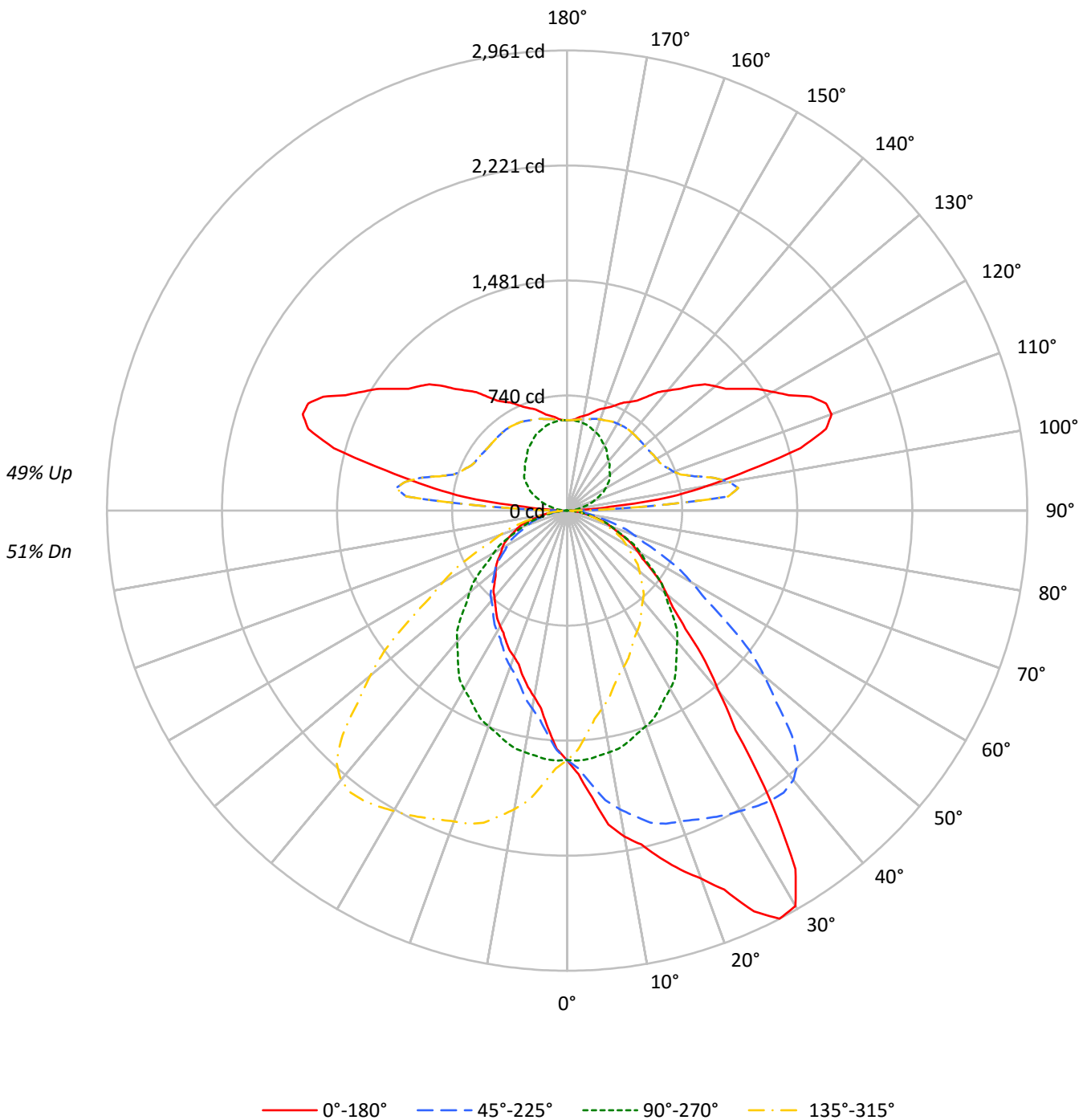
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35	31
4	75	64	56	50	69	60	53	48	51	46	42	43	39	36	36	33	31	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	23
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	24	21
7	59	46	39	33	54	43	36	31	37	32	28	32	28	24	27	23	21	18
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	25	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	23	19	23	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13

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

	0°	90°	180°	270°
0°	10371	10371	10371	10371
5°	12010	10407	9111	10407
10°	13973	10352	7984	10352
15°	15468	10277	7365	10277
20°	17314	10156	6868	10156
25°	20283	10020	6625	10020
30°	21908	9887	6415	9887
35°	18013	9635	6277	9635
40°	12803	9286	6126	9286
45°	9836	8815	6039	8815
50°	8397	8232	6027	8232
55°	7475	7659	6079	7659
60°	6744	7034	6234	7034
65°	6229	6406	6395	6406
70°	5663	5754	6488	5754
75°	5001	5068	6428	5068
80°	4206	4132	5880	4132
85°	3327	2979	4742	2979



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	1.7
10°-20°	460.3	5.2
20°-30°	747.4	8.4
30°-40°	911.7	10.2
40°-50°	829.4	9.3
50°-60°	660.6	7.4
60°-70°	460.1	5.2
70°-80°	245.4	2.8
80°-90°	65.2	0.7
90°-100°	421.9	4.7
100°-110°	906.9	10.2
110°-120°	851.1	9.6
120°-130°	689.8	7.8
130°-140°	553.5	6.2
140°-150°	417.7	4.7
150°-160°	294.0	3.3
160°-170°	173.3	1.9
170°-180°	56.4	0.6
0°-30°	1362.3	15.3
0°-40°	2274.0	25.6
0°-60°	3764.0	42.3
0°-90°	4534.7	51.0
90°-120°	2179.9	24.5
90°-150°	3840.9	43.2
90°-180°	4365.0	49.0
0°-180°	8899.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1853	1605	1405	1605	1853	187
15°	2313	1537	1102	1537	2313	662
25°	2846	1406	930	1406	2846	1300
35°	2285	1222	796	1222	2285	1398
45°	1077	965	661	965	1077	862
55°	664	680	540	680	664	598
65°	408	419	418	419	408	405
75°	200	203	258	203	200	216
85°	45	40	64	40	45	53
90°	27	1	27	1	27	20
95°	276	39	276	39	276	391
105°	1555	133	1555	133	1555	1545
115°	1732	237	1732	237	1732	1692
125°	1365	328	1365	328	1365	1235
135°	1134	385	1134	385	1134	878
145°	894	448	894	448	894	568
155°	750	512	750	512	750	349
165°	657	559	657	559	657	188
175°	590	581	590	581	590	57
180°	582	582	582	582	582	



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1698.6	1696.4	1694.3	1689.8	1693.1	1683.8	1679.5	1671.8	1662.5	1659.3	1655.5
5°	1852.6	1856.0	1859.5	1845.1	1846.4	1836.9	1815.1	1797.4	1783.1	1764.6	1751.7
7.5°	2038.0	2029.9	2029.3	2020.0	2004.1	1991.3	1968.3	1939.1	1911.0	1878.8	1852.2
10°	2130.7	2131.4	2125.3	2114.4	2097.3	2085.1	2055.1	2026.4	1991.7	1950.8	1921.5
12.5°	2200.5	2203.3	2195.6	2180.9	2172.5	2145.1	2121.6	2087.5	2046.2	2013.5	1968.9
15°	2313.4	2305.9	2300.5	2282.0	2267.8	2239.1	2201.6	2166.2	2121.1	2079.6	2038.0
17.5°	2422.2	2428.1	2417.9	2401.2	2356.7	2323.3	2273.0	2224.5	2168.5	2112.7	2063.1
20°	2519.2	2524.7	2509.0	2479.7	2426.5	2393.2	2327.0	2264.3	2199.6	2128.0	2073.5
22.5°	2640.3	2635.9	2614.7	2570.2	2524.2	2462.4	2390.9	2314.5	2233.3	2152.5	2080.0
25°	2846.4	2817.7	2804.8	2749.7	2689.0	2598.3	2500.1	2388.3	2287.4	2180.5	2087.8
27.5°	2960.6	2951.6	2937.2	2898.7	2835.0	2738.0	2622.3	2486.1	2343.8	2208.7	2087.4
30°	2937.7	2939.1	2940.4	2928.2	2887.3	2814.4	2699.2	2552.6	2383.6	2231.6	2091.1
32.5°	2734.9	2759.7	2783.4	2811.5	2823.0	2808.9	2736.8	2604.4	2430.4	2257.8	2089.0
35°	2284.7	2292.3	2369.2	2445.6	2549.2	2629.7	2683.5	2624.8	2478.3	2280.0	2086.4
37.5°	1781.5	1818.3	1871.6	1957.8	2107.4	2241.3	2413.5	2492.6	2445.4	2287.2	2081.6
40°	1518.6	1552.7	1587.5	1675.4	1801.5	1963.7	2159.3	2326.3	2365.2	2264.3	2065.3
42.5°	1315.8	1342.8	1381.4	1447.4	1552.9	1696.6	1883.4	2101.6	2235.9	2197.8	2030.9
45°	1076.9	1094.0	1124.0	1176.5	1252.8	1365.2	1530.2	1768.8	1976.7	2045.5	1949.4
47.5°	921.8	921.7	945.0	981.3	1036.3	1131.9	1253.8	1440.8	1662.8	1827.1	1819.5
50°	835.7	832.2	850.6	882.0	925.6	989.1	1105.6	1254.9	1468.1	1654.3	1706.1
52.5°	761.5	761.9	773.3	796.4	832.9	887.1	974.1	1108.7	1291.0	1482.0	1579.5
55°	663.9	661.2	674.1	689.8	716.4	751.8	814.6	917.5	1065.3	1253.4	1380.3
57.5°	574.4	582.0	587.1	598.0	620.2	643.9	696.7	772.2	889.6	1051.1	1185.1
60°	522.1	529.6	533.7	544.6	562.3	582.8	623.7	685.0	783.9	922.9	1055.8
62.5°	475.2	481.1	482.4	492.2	506.8	526.6	558.8	610.4	688.4	810.0	940.2
65°	407.6	407.6	410.3	420.5	427.4	445.0	469.6	507.2	569.9	664.6	775.7
67.5°	342.4	345.7	345.1	349.5	355.8	369.6	387.2	418.1	464.5	533.7	622.6
70°	299.9	302.7	301.9	305.4	312.1	321.0	335.4	364.7	398.1	457.4	533.7
72.5°	261.8	262.9	261.1	265.6	269.6	277.4	293.4	309.0	340.2	390.3	453.0
75°	200.4	201.8	203.1	205.8	210.0	214.0	222.2	237.9	258.3	295.8	336.1
77.5°	150.3	147.6	150.9	150.5	152.8	155.9	163.2	171.5	188.2	212.0	243.1
80°	113.1	113.8	113.8	114.5	118.0	120.0	126.1	132.2	145.2	162.9	184.7
82.5°	82.6	84.4	83.3	84.5	87.4	88.9	92.3	97.4	104.8	118.8	134.5
85°	44.9	41.6	42.9	44.3	44.3	44.9	47.7	49.8	53.8	59.3	65.4
87.5°	18.5	19.6	19.9	19.9	20.4	20.0	21.9	21.7	23.0	24.4	26.2
90°	27.0	27.0	25.9	25.9	25.9	23.4	22.3	21.1	20.0	18.8	16.5
92.5°	74.8	76.7	78.4	81.2	96.2	113.6	150.9	207.9	306.3	378.3	384.5
95°	275.8	294.6	303.9	339.1	422.4	521.0	665.3	843.6	1017.3	1039.7	848.4
97.5°	666.5	681.6	715.6	781.2	853.7	990.9	1131.5	1256.5	1287.3	1110.2	757.6
100°	915.2	934.0	977.4	1062.0	1142.9	1265.0	1385.8	1443.3	1352.9	1059.6	675.9
102.5°	1193.2	1207.2	1254.4	1314.4	1401.1	1483.7	1541.7	1506.2	1313.5	970.4	613.9
105°	1554.8	1568.8	1592.4	1631.0	1668.6	1681.5	1629.9	1469.2	1187.5	850.7	553.8
107.5°	1746.8	1756.2	1763.9	1764.1	1745.1	1683.8	1551.3	1336.8	1058.9	768.3	528.5
110°	1810.6	1810.6	1802.4	1780.1	1727.3	1627.5	1462.1	1239.1	985.6	729.8	521.0



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1803.1	1794.6	1774.2	1736.0	1658.7	1541.2	1373.8	1162.2	931.2	707.3	521.0
115°	1731.9	1716.7	1683.8	1627.5	1536.0	1408.1	1247.4	1065.5	871.8	683.0	524.5
117.5°	1607.3	1598.0	1565.4	1507.1	1415.6	1298.3	1159.8	1003.0	836.4	671.0	532.3
120°	1526.6	1517.2	1485.5	1429.3	1342.4	1239.1	1110.0	969.3	816.7	665.3	539.8
122.5°	1455.3	1446.8	1415.1	1363.5	1286.1	1189.4	1074.4	943.9	799.8	660.7	546.3
125°	1364.7	1352.9	1327.2	1279.0	1213.4	1128.8	1026.7	907.1	776.8	654.8	557.3
127.5°	1287.3	1282.1	1257.7	1215.2	1155.6	1076.5	981.2	869.5	755.7	652.0	569.8
130°	1245.0	1238.0	1214.5	1175.8	1117.1	1040.9	949.3	846.1	741.6	650.1	577.3
132.5°	1202.7	1194.8	1173.2	1134.5	1075.8	1002.3	919.3	822.5	730.3	650.1	585.7
135°	1133.6	1126.5	1105.4	1066.6	1015.0	948.2	873.0	792.0	717.0	650.1	597.2
137.5°	1059.6	1051.9	1032.4	997.1	951.0	894.1	831.7	766.3	705.0	651.5	607.8
140°	1007.9	1002.1	984.5	954.0	910.6	861.3	807.3	752.1	699.3	652.4	612.5
142.5°	960.1	955.1	938.5	912.7	875.9	833.1	786.7	739.9	694.7	653.4	615.3
145°	894.1	889.5	876.6	856.6	828.4	796.8	760.3	724.0	687.6	652.4	618.4
147.5°	838.3	836.2	828.7	812.7	790.4	766.5	738.5	709.0	680.3	649.3	619.6
150°	807.3	806.2	801.4	787.4	769.7	748.6	726.4	700.5	674.7	646.5	619.6
152.5°	782.9	781.7	777.0	765.8	751.0	734.6	714.2	691.2	668.1	642.8	618.6
155°	749.8	748.6	745.1	736.9	725.2	712.3	695.8	677.0	657.1	636.0	616.0
157.5°	720.2	720.4	717.2	710.3	701.3	691.2	678.4	663.0	646.8	628.9	613.0
160°	700.5	701.8	699.3	693.5	685.3	677.0	665.3	653.6	638.3	624.3	610.2
162.5°	682.7	683.0	682.5	677.5	671.2	663.9	654.1	643.3	630.9	618.6	607.3
165°	657.1	657.1	657.1	654.8	650.1	644.2	637.1	628.9	619.6	610.2	603.1
167.5°	633.7	633.9	634.8	632.7	630.4	626.1	620.8	615.3	608.5	602.0	596.5
170°	619.6	620.8	620.8	619.6	617.2	614.9	611.4	607.8	602.0	597.2	593.8
172.5°	606.4	607.6	609.5	607.3	606.9	605.5	602.9	599.4	595.4	591.7	590.0
175°	590.3	591.4	593.8	592.6	592.6	592.6	590.3	590.3	586.7	585.5	585.5
177.5°	582.0	582.0	584.8	583.9	584.8	584.8	584.8	583.9	583.0	582.0	582.0
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1652.2	1648.4	1644.1	1636.4	1627.1	1622.2	1614.6	1609.7	1599.8	1591.6	1583.0
5°	1736.1	1718.4	1702.0	1680.8	1657.7	1642.6	1625.0	1605.2	1584.8	1563.6	1540.4
7.5°	1822.9	1791.5	1757.5	1720.8	1685.0	1651.9	1620.4	1589.5	1560.6	1525.7	1496.1
10°	1881.3	1841.7	1799.5	1749.7	1701.3	1659.0	1616.1	1578.6	1540.4	1499.5	1463.4
12.5°	1939.5	1886.9	1827.2	1772.6	1714.3	1663.3	1612.9	1565.0	1517.0	1471.8	1429.6
15°	1980.7	1934.4	1879.2	1801.5	1736.1	1665.9	1599.0	1537.0	1479.0	1428.7	1375.5
17.5°	2007.9	1948.1	1888.9	1814.3	1728.6	1650.0	1574.4	1503.4	1438.0	1374.1	1322.8
20°	2012.8	1951.5	1889.5	1816.4	1728.6	1638.6	1563.0	1477.7	1407.5	1341.4	1278.7
22.5°	2011.1	1941.7	1874.1	1799.1	1713.3	1630.4	1538.9	1452.1	1375.9	1310.9	1245.5
25°	1995.8	1921.5	1836.9	1761.3	1676.8	1588.8	1496.1	1406.1	1328.5	1254.2	1189.4
27.5°	1983.0	1886.5	1790.9	1702.6	1621.0	1540.4	1451.7	1359.6	1273.3	1198.1	1137.1
30°	1967.1	1861.5	1753.7	1661.7	1577.9	1499.5	1415.7	1325.8	1235.8	1162.2	1096.7
32.5°	1953.0	1829.9	1716.2	1616.0	1527.2	1451.0	1373.7	1288.1	1199.7	1125.1	1059.7
35°	1925.5	1783.1	1652.9	1539.7	1445.0	1366.7	1301.9	1222.1	1141.0	1068.7	1006.0
37.5°	1890.8	1721.7	1582.1	1463.4	1359.6	1277.0	1216.7	1155.5	1077.6	1007.9	951.3
40°	1863.5	1678.1	1530.2	1408.9	1301.2	1215.3	1159.4	1101.5	1036.7	972.0	912.0
42.5°	1829.2	1638.9	1477.8	1347.3	1240.6	1157.0	1098.3	1049.1	992.0	931.6	876.0
45°	1766.1	1567.7	1393.2	1252.8	1145.1	1062.6	1002.0	965.1	922.2	864.9	817.9
47.5°	1673.2	1482.2	1301.7	1156.8	1045.7	969.3	912.4	877.1	846.9	804.3	761.6
50°	1590.8	1418.5	1235.8	1092.0	980.9	903.8	851.3	819.3	793.3	760.6	724.6
52.5°	1498.7	1338.3	1170.8	1028.6	918.7	842.7	791.3	763.2	741.5	718.1	682.6
55°	1352.3	1216.0	1060.6	925.6	824.0	749.7	704.8	680.2	662.6	644.8	623.0
57.5°	1191.0	1084.4	946.7	823.3	729.8	662.3	620.3	596.4	582.6	573.5	560.7
60°	1077.6	986.3	867.7	755.2	663.9	603.9	563.0	544.6	533.0	525.5	515.9
62.5°	972.4	897.4	787.5	684.9	605.0	548.3	511.8	493.9	482.8	479.2	471.3
65°	817.3	759.3	668.6	583.5	515.3	466.9	436.3	419.2	412.3	408.3	409.0
67.5°	664.4	629.1	556.3	483.6	429.3	388.7	364.2	351.0	347.6	342.1	342.0
70°	571.2	544.6	483.2	419.9	371.4	340.1	318.3	304.7	301.2	298.5	297.9
72.5°	488.9	465.5	412.3	361.5	318.0	290.5	272.5	264.3	258.7	257.1	257.0
75°	367.4	354.5	312.1	272.0	242.0	222.9	210.7	203.1	199.0	198.3	199.0
77.5°	261.2	249.8	223.0	194.5	175.6	161.2	150.8	148.1	143.5	143.7	143.0
80°	196.3	188.8	171.8	149.3	133.6	121.3	115.8	111.1	109.8	107.7	109.8
82.5°	142.3	134.3	122.7	108.4	95.4	88.1	82.6	81.1	80.3	79.4	79.8
85°	70.2	70.9	64.0	53.1	47.7	43.6	40.2	40.2	39.5	38.9	39.5
87.5°	27.1	25.4	23.0	21.0	17.8	15.7	14.6	14.9	13.5	13.4	14.5
90°	15.2	12.9	11.7	9.4	7.1	4.6	2.3	1.2	2.3	4.6	7.1
92.5°	267.8	160.3	96.2	62.0	41.8	27.3	17.4	14.3	17.4	27.3	41.8
95°	524.5	266.4	140.8	88.0	62.2	49.3	39.9	38.7	39.9	49.3	62.2
97.5°	418.7	229.5	146.4	108.5	85.2	72.3	65.7	64.3	65.7	72.3	85.2
100°	380.2	227.6	159.6	124.4	102.1	89.2	84.5	82.1	84.5	89.2	102.1
102.5°	364.3	236.1	175.5	141.3	120.9	107.0	103.3	101.9	103.3	107.0	120.9
105°	357.9	253.5	201.9	169.0	150.2	138.5	132.6	132.6	132.6	138.5	150.2
107.5°	368.7	279.2	229.2	199.8	180.3	170.6	165.0	162.6	165.0	170.6	180.3
110°	379.0	298.0	249.9	219.4	201.9	191.3	186.6	184.2	186.6	191.3	201.9





TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	392.1	315.9	269.6	240.0	222.5	211.9	208.1	205.8	208.1	211.9	222.5
115°	411.8	343.9	300.4	271.0	253.5	242.9	239.3	237.0	239.3	242.9	253.5
117.5°	434.4	372.4	331.3	303.0	283.1	272.5	268.7	265.2	268.7	272.5	283.1
120°	449.4	393.1	352.0	322.7	302.8	292.2	287.5	284.0	287.5	292.2	302.8
122.5°	466.4	412.8	371.7	342.4	320.5	310.0	306.3	303.7	306.3	310.0	320.5
125°	489.3	438.9	400.1	369.6	347.3	336.8	330.9	328.5	330.9	336.8	347.3
127.5°	510.5	463.9	426.7	396.2	372.4	359.1	351.5	348.0	351.5	359.1	372.4
130°	524.5	479.9	443.5	413.0	388.4	373.1	363.8	360.2	363.8	373.1	388.4
132.5°	536.7	494.9	458.6	428.1	402.5	385.4	374.1	369.6	374.1	385.4	402.5
135°	553.8	515.1	478.8	447.1	422.4	403.6	389.6	384.9	389.6	403.6	422.4
137.5°	566.5	529.5	496.3	463.7	439.6	420.8	407.7	404.1	407.7	420.8	439.6
140°	575.0	539.8	505.7	474.0	451.8	433.0	418.9	415.4	418.9	433.0	451.8
142.5°	579.7	546.3	514.2	484.4	463.0	444.2	431.1	428.5	431.1	444.2	463.0
145°	586.7	557.3	526.8	499.9	478.8	462.3	450.6	448.3	450.6	462.3	478.8
147.5°	591.0	564.4	537.7	513.9	495.6	480.4	470.3	468.9	470.3	480.4	495.6
150°	593.8	569.1	543.3	523.3	507.0	491.7	483.4	481.1	483.4	491.7	507.0
152.5°	595.6	573.8	549.9	531.8	516.3	502.9	495.6	494.2	495.6	502.9	516.3
155°	597.2	578.5	558.6	542.1	530.4	518.7	511.6	511.6	511.6	518.7	530.4
157.5°	598.4	582.5	565.3	552.9	542.6	532.5	526.8	527.1	526.8	532.5	542.6
160°	598.4	584.4	569.1	558.6	549.2	541.0	536.2	537.5	536.2	541.0	549.2
162.5°	597.5	586.2	572.9	564.2	556.6	549.4	544.7	545.8	544.7	549.4	556.6
165°	596.1	586.7	577.3	570.3	565.6	559.8	556.2	558.6	556.2	559.8	565.6
167.5°	593.3	586.7	579.0	574.5	571.2	567.9	565.8	567.0	565.8	567.9	571.2
170°	591.4	586.7	580.9	577.3	575.0	572.6	571.5	572.6	571.5	572.6	575.0
172.5°	589.6	585.7	580.9	579.2	577.7	575.4	574.3	576.4	574.3	575.4	577.7
175°	586.7	584.4	580.9	580.9	580.9	579.7	578.5	580.9	578.5	579.7	580.9
177.5°	583.9	583.0	581.1	581.1	582.0	581.1	581.1	583.0	581.1	581.1	582.0
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1578.0	1572.1	1567.1	1556.2	1550.2	1542.1	1535.5	1542.6	1535.0	1538.2	1533.4
5°	1528.8	1509.7	1496.1	1476.3	1459.4	1443.6	1432.1	1430.0	1424.5	1421.8	1413.6
7.5°	1469.7	1445.8	1422.4	1396.4	1374.6	1352.4	1338.3	1326.6	1318.8	1308.6	1301.6
10°	1434.8	1402.7	1375.5	1344.1	1316.9	1293.0	1273.9	1264.4	1255.6	1242.5	1237.8
12.5°	1391.7	1358.6	1325.3	1291.8	1265.6	1239.0	1222.6	1208.2	1202.0	1187.5	1186.0
15°	1340.1	1290.3	1257.6	1223.5	1187.4	1165.6	1152.0	1136.2	1129.4	1119.2	1111.7
17.5°	1278.4	1234.0	1193.1	1157.8	1126.8	1108.4	1091.6	1080.8	1069.0	1062.4	1050.1
20°	1233.8	1191.4	1150.5	1113.1	1089.2	1068.0	1054.4	1044.2	1032.0	1028.5	1016.3
22.5°	1196.1	1149.4	1110.2	1078.7	1052.7	1028.9	1014.1	1007.1	998.7	988.2	985.7
25°	1134.9	1086.5	1053.1	1021.8	998.6	976.7	966.5	957.7	949.5	942.0	939.3
27.5°	1082.0	1038.7	999.1	970.8	950.6	930.7	921.7	910.9	904.9	898.9	891.5
30°	1044.9	1000.6	965.8	938.6	916.8	899.1	889.5	882.0	876.6	871.1	867.0
32.5°	1006.7	965.7	932.0	905.3	883.5	870.1	861.7	856.4	850.4	843.8	838.7
35°	956.3	911.3	878.6	855.5	838.4	828.2	818.6	813.9	807.0	807.0	801.5
37.5°	899.5	860.6	831.7	810.6	795.3	786.2	775.8	772.5	768.2	765.3	763.4
40°	865.7	829.5	802.2	781.1	764.8	757.3	749.1	743.7	740.9	737.5	736.1
42.5°	830.7	796.3	770.1	750.6	736.4	730.0	722.4	718.5	713.1	708.6	707.8
45°	777.7	744.3	720.4	704.8	692.5	685.0	680.2	672.1	669.3	663.9	663.2
47.5°	727.4	695.4	672.0	659.1	648.3	642.2	634.7	626.5	623.4	620.7	620.4
50°	689.8	660.5	638.6	626.4	616.2	607.3	599.9	594.4	592.3	592.3	593.7
52.5°	651.7	626.6	608.1	593.1	583.5	574.0	567.1	563.8	560.7	564.0	566.4
55°	595.7	570.5	556.8	542.6	533.0	522.1	518.7	517.4	515.3	520.8	523.5
57.5°	536.5	518.9	502.9	488.7	480.1	473.8	469.2	468.4	472.2	474.8	483.6
60°	499.0	478.5	464.1	453.2	443.0	439.0	437.6	436.3	439.0	446.5	458.1
62.5°	457.5	440.9	425.5	417.3	409.8	402.9	402.7	403.5	409.0	417.6	429.1
65°	396.7	382.3	372.1	362.6	356.5	352.3	353.8	356.5	362.6	374.2	387.2
67.5°	335.0	325.2	316.0	308.2	302.4	302.4	303.8	307.8	315.1	328.4	340.2
70°	295.2	284.3	276.7	273.4	268.5	265.8	269.9	276.7	282.9	295.2	305.4
72.5°	255.3	246.1	240.2	237.9	235.8	233.7	235.0	242.4	250.6	263.0	274.8
75°	196.3	192.9	188.8	186.1	184.0	185.4	186.7	193.6	200.4	213.4	227.0
77.5°	143.3	139.8	137.2	136.6	135.5	136.2	140.0	145.0	151.7	161.2	171.5
80°	108.4	107.0	105.6	104.9	104.9	105.6	111.1	114.5	120.7	129.5	137.6
82.5°	79.0	78.1	77.9	77.7	78.3	78.4	81.7	86.1	91.2	97.9	104.9
85°	41.6	40.2	42.2	42.9	41.6	43.6	44.9	47.7	49.8	53.1	56.6
87.5°	15.6	17.1	16.8	17.8	18.0	19.6	19.3	21.7	23.0	24.3	24.2
90°	9.4	11.7	12.9	15.2	16.5	18.8	20.0	21.1	22.3	23.4	25.9
92.5°	62.0	96.2	160.3	267.8	384.5	378.3	306.3	207.9	150.9	113.6	96.2
95°	88.0	140.8	266.4	524.5	848.4	1039.7	1017.3	843.6	665.3	521.0	422.4
97.5°	108.5	146.4	229.5	418.7	757.6	1110.2	1287.3	1256.5	1131.5	990.9	853.7
100°	124.4	159.6	227.6	380.2	675.9	1059.6	1352.9	1443.3	1385.8	1265.0	1142.9
102.5°	141.3	175.5	236.1	364.3	613.9	970.4	1313.5	1506.2	1541.7	1483.7	1401.1
105°	169.0	201.9	253.5	357.9	553.8	850.7	1187.5	1469.2	1629.9	1681.5	1668.6
107.5°	199.8	229.2	279.2	368.7	528.5	768.3	1058.9	1336.8	1551.3	1683.8	1745.1
110°	219.4	249.9	298.0	379.0	521.0	729.8	985.6	1239.1	1462.1	1627.5	1727.3



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	240.0	269.6	315.9	392.1	521.0	707.3	931.2	1162.2	1373.8	1541.2	1658.7
115°	271.0	300.4	343.9	411.8	524.5	683.0	871.8	1065.5	1247.4	1408.1	1536.0
117.5°	303.0	331.3	372.4	434.4	532.3	671.0	836.4	1003.0	1159.8	1298.3	1415.6
120°	322.7	352.0	393.1	449.4	539.8	665.3	816.7	969.3	1110.0	1239.1	1342.4
122.5°	342.4	371.7	412.8	466.4	546.3	660.7	799.8	943.9	1074.4	1189.4	1286.1
125°	369.6	400.1	438.9	489.3	557.3	654.8	776.8	907.1	1026.7	1128.8	1213.4
127.5°	396.2	426.7	463.9	510.5	569.8	652.0	755.7	869.5	981.2	1076.5	1155.6
130°	413.0	443.5	479.9	524.5	577.3	650.1	741.6	846.1	949.3	1040.9	1117.1
132.5°	428.1	458.6	494.9	536.7	585.7	650.1	730.3	822.5	919.3	1002.3	1075.8
135°	447.1	478.8	515.1	553.8	597.2	650.1	717.0	792.0	873.0	948.2	1015.0
137.5°	463.7	496.3	529.5	566.5	607.8	651.5	705.0	766.3	831.7	894.1	951.0
140°	474.0	505.7	539.8	575.0	612.5	652.4	699.3	752.1	807.3	861.3	910.6
142.5°	484.4	514.2	546.3	579.7	615.3	653.4	694.7	739.9	786.7	833.1	875.9
145°	499.9	526.8	557.3	586.7	618.4	652.4	687.6	724.0	760.3	796.8	828.4
147.5°	513.9	537.7	564.4	591.0	619.6	649.3	680.3	709.0	738.5	766.5	790.4
150°	523.3	543.3	569.1	593.8	619.6	646.5	674.7	700.5	726.4	748.6	769.7
152.5°	531.8	549.9	573.8	595.6	618.6	642.8	668.1	691.2	714.2	734.6	751.0
155°	542.1	558.6	578.5	597.2	616.0	636.0	657.1	677.0	695.8	712.3	725.2
157.5°	552.9	565.3	582.5	598.4	613.0	628.9	646.8	663.0	678.4	691.2	701.3
160°	558.6	569.1	584.4	598.4	610.2	624.3	638.3	653.6	665.3	677.0	685.3
162.5°	564.2	572.9	586.2	597.5	607.3	618.6	630.9	643.3	654.1	663.9	671.2
165°	570.3	577.3	586.7	596.1	603.1	610.2	619.6	628.9	637.1	644.2	650.1
167.5°	574.5	579.0	586.7	593.3	596.5	602.0	608.5	615.3	620.8	626.1	630.4
170°	577.3	580.9	586.7	591.4	593.8	597.2	602.0	607.8	611.4	614.9	617.2
172.5°	579.2	580.9	585.7	589.6	590.0	591.7	595.4	599.4	602.9	605.5	606.9
175°	580.9	580.9	584.4	586.7	585.5	585.5	586.7	590.3	590.3	592.6	592.6
177.5°	581.1	581.1	583.0	583.9	582.0	582.0	583.0	583.9	584.8	584.8	584.8
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1530.0	1533.9	1530.7	1535.0	1530.7	1533.9	1530.0	1533.4	1538.2	1535.0	1542.6
5°	1410.3	1404.1	1408.2	1405.4	1408.2	1404.1	1410.3	1413.6	1421.8	1424.5	1430.0
7.5°	1299.6	1293.7	1287.0	1283.8	1287.0	1293.7	1299.6	1301.6	1308.6	1318.8	1326.6
10°	1230.3	1222.8	1222.1	1217.4	1222.1	1222.8	1230.3	1237.8	1242.5	1255.6	1264.4
12.5°	1179.6	1172.7	1164.9	1162.9	1164.9	1172.7	1179.6	1186.0	1187.5	1202.0	1208.2
15°	1107.6	1102.2	1097.4	1101.5	1097.4	1102.2	1107.6	1111.7	1119.2	1129.4	1136.2
17.5°	1047.7	1043.3	1042.5	1037.4	1042.5	1043.3	1047.7	1050.1	1062.4	1069.0	1080.8
20°	1010.2	1006.7	1008.1	999.3	1008.1	1006.7	1010.2	1016.3	1028.5	1032.0	1044.2
22.5°	980.2	973.5	972.7	970.9	972.7	973.5	980.2	985.7	988.2	998.7	1007.1
25°	933.1	929.7	926.3	929.7	926.3	929.7	933.1	939.3	942.0	949.5	957.7
27.5°	892.1	888.0	887.1	887.5	887.1	888.0	892.1	891.5	898.9	904.9	910.9
30°	867.0	860.2	860.9	860.2	860.9	860.2	867.0	867.0	871.1	876.6	882.0
32.5°	839.7	835.1	834.1	832.9	834.1	835.1	839.7	838.7	843.8	850.4	856.4
35°	799.5	799.5	796.1	796.1	796.1	799.5	799.5	801.5	807.0	807.0	813.9
37.5°	761.7	761.0	759.0	759.3	759.0	761.0	761.7	763.4	765.3	768.2	772.5
40°	733.4	732.8	730.6	726.6	730.6	732.8	733.4	736.1	737.5	740.9	743.7
42.5°	706.1	703.9	702.9	701.6	702.9	703.9	706.1	707.8	708.6	713.1	718.5
45°	663.2	663.2	661.9	661.2	661.9	663.2	663.2	663.2	663.9	669.3	672.1
47.5°	621.5	622.7	625.3	624.9	625.3	622.7	621.5	620.4	620.7	623.4	626.5
50°	596.4	597.1	599.2	599.9	599.2	597.1	596.4	593.7	592.3	592.3	594.4
52.5°	568.6	572.6	575.1	574.7	575.1	572.6	568.6	566.4	564.0	560.7	563.8
55°	529.6	534.4	539.2	539.9	539.2	534.4	529.6	523.5	520.8	515.3	517.4
57.5°	491.0	497.7	502.7	504.4	502.7	497.7	491.0	483.6	474.8	472.2	468.4
60°	464.8	473.7	479.9	482.6	479.9	473.7	464.8	458.1	446.5	439.0	436.3
62.5°	439.8	449.7	455.9	456.4	455.9	449.7	439.8	429.1	417.6	409.0	403.5
65°	398.7	409.0	414.4	418.5	414.4	409.0	398.7	387.2	374.2	362.6	356.5
67.5°	354.6	364.8	370.8	374.1	370.8	364.8	354.6	340.2	328.4	315.1	307.8
70°	322.4	332.6	340.8	343.6	340.8	332.6	322.4	305.4	295.2	282.9	276.7
72.5°	290.7	299.9	306.5	309.7	306.5	299.9	290.7	274.8	263.0	250.6	242.4
75°	235.8	248.1	254.3	257.6	254.3	248.1	235.8	227.0	213.4	200.4	193.6
77.5°	181.9	193.0	196.7	198.4	196.7	193.0	181.9	171.5	161.2	151.7	145.0
80°	145.8	152.7	157.4	158.1	157.4	152.7	145.8	137.6	129.5	120.7	114.5
82.5°	112.1	117.8	119.3	121.1	119.3	117.8	112.1	104.9	97.9	91.2	86.1
85°	61.3	64.0	64.7	64.0	64.7	64.0	61.3	56.6	53.1	49.8	47.7
87.5°	25.3	24.8	25.0	26.2	25.0	24.8	25.3	24.2	24.3	23.0	21.7
90°	25.9	25.9	27.0	27.0	27.0	25.9	25.9	25.9	23.4	22.3	21.1
92.5°	81.2	78.4	76.7	74.8	76.7	78.4	81.2	96.2	113.6	150.9	207.9
95°	339.1	303.9	294.6	275.8	294.6	303.9	339.1	422.4	521.0	665.3	843.6
97.5°	781.2	715.6	681.6	666.5	681.6	715.6	781.2	853.7	990.9	1131.5	1256.5
100°	1062.0	977.4	934.0	915.2	934.0	977.4	1062.0	1142.9	1265.0	1385.8	1443.3
102.5°	1314.4	1254.4	1207.2	1193.2	1207.2	1254.4	1314.4	1401.1	1483.7	1541.7	1506.2
105°	1631.0	1592.4	1568.8	1554.8	1568.8	1592.4	1631.0	1668.6	1681.5	1629.9	1469.2
107.5°	1764.1	1763.9	1756.2	1746.8	1756.2	1763.9	1764.1	1745.1	1683.8	1551.3	1336.8
110°	1780.1	1802.4	1810.6	1810.6	1810.6	1802.4	1780.1	1727.3	1627.5	1462.1	1239.1



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1736.0	1774.2	1794.6	1803.1	1794.6	1774.2	1736.0	1658.7	1541.2	1373.8	1162.2
115°	1627.5	1683.8	1716.7	1731.9	1716.7	1683.8	1627.5	1536.0	1408.1	1247.4	1065.5
117.5°	1507.1	1565.4	1598.0	1607.3	1598.0	1565.4	1507.1	1415.6	1298.3	1159.8	1003.0
120°	1429.3	1485.5	1517.2	1526.6	1517.2	1485.5	1429.3	1342.4	1239.1	1110.0	969.3
122.5°	1363.5	1415.1	1446.8	1455.3	1446.8	1415.1	1363.5	1286.1	1189.4	1074.4	943.9
125°	1279.0	1327.2	1352.9	1364.7	1352.9	1327.2	1279.0	1213.4	1128.8	1026.7	907.1
127.5°	1215.2	1257.7	1282.1	1287.3	1282.1	1257.7	1215.2	1155.6	1076.5	981.2	869.5
130°	1175.8	1214.5	1238.0	1245.0	1238.0	1214.5	1175.8	1117.1	1040.9	949.3	846.1
132.5°	1134.5	1173.2	1194.8	1202.7	1194.8	1173.2	1134.5	1075.8	1002.3	919.3	822.5
135°	1066.6	1105.4	1126.5	1133.6	1126.5	1105.4	1066.6	1015.0	948.2	873.0	792.0
137.5°	997.1	1032.4	1051.9	1059.6	1051.9	1032.4	997.1	951.0	894.1	831.7	766.3
140°	954.0	984.5	1002.1	1007.9	1002.1	984.5	954.0	910.6	861.3	807.3	752.1
142.5°	912.7	938.5	955.1	960.1	955.1	938.5	912.7	875.9	833.1	786.7	739.9
145°	856.6	876.6	889.5	894.1	889.5	876.6	856.6	828.4	796.8	760.3	724.0
147.5°	812.7	828.7	836.2	838.3	836.2	828.7	812.7	790.4	766.5	738.5	709.0
150°	787.4	801.4	806.2	807.3	806.2	801.4	787.4	769.7	748.6	726.4	700.5
152.5°	765.8	777.0	781.7	782.9	781.7	777.0	765.8	751.0	734.6	714.2	691.2
155°	736.9	745.1	748.6	749.8	748.6	745.1	736.9	725.2	712.3	695.8	677.0
157.5°	710.3	717.2	720.4	720.2	720.4	717.2	710.3	701.3	691.2	678.4	663.0
160°	693.5	699.3	701.8	700.5	701.8	699.3	693.5	685.3	677.0	665.3	653.6
162.5°	677.5	682.5	683.0	682.7	683.0	682.5	677.5	671.2	663.9	654.1	643.3
165°	654.8	657.1	657.1	657.1	657.1	657.1	654.8	650.1	644.2	637.1	628.9
167.5°	632.7	634.8	633.9	633.7	633.9	634.8	632.7	630.4	626.1	620.8	615.3
170°	619.6	620.8	620.8	619.6	620.8	620.8	619.6	617.2	614.9	611.4	607.8
172.5°	607.3	609.5	607.6	606.4	607.6	609.5	607.3	606.9	605.5	602.9	599.4
175°	592.6	593.8	591.4	590.3	591.4	593.8	592.6	592.6	592.6	590.3	590.3
177.5°	583.9	584.8	582.0	582.0	582.0	584.8	583.9	584.8	584.8	584.8	583.9
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1535.5	1542.1	1550.2	1556.2	1567.1	1572.1	1578.0	1583.0	1591.6	1599.8	1609.7
5°	1432.1	1443.6	1459.4	1476.3	1496.1	1509.7	1528.8	1540.4	1563.6	1584.8	1605.2
7.5°	1338.3	1352.4	1374.6	1396.4	1422.4	1445.8	1469.7	1496.1	1525.7	1560.6	1589.5
10°	1273.9	1293.0	1316.9	1344.1	1375.5	1402.7	1434.8	1463.4	1499.5	1540.4	1578.6
12.5°	1222.6	1239.0	1265.6	1291.8	1325.3	1358.6	1391.7	1429.6	1471.8	1517.0	1565.0
15°	1152.0	1165.6	1187.4	1223.5	1257.6	1290.3	1340.1	1375.5	1428.7	1479.0	1537.0
17.5°	1091.6	1108.4	1126.8	1157.8	1193.1	1234.0	1278.4	1322.8	1374.1	1438.0	1503.4
20°	1054.4	1068.0	1089.2	1113.1	1150.5	1191.4	1233.8	1278.7	1341.4	1407.5	1477.7
22.5°	1014.1	1028.9	1052.7	1078.7	1110.2	1149.4	1196.1	1245.5	1310.9	1375.9	1452.1
25°	966.5	976.7	998.6	1021.8	1053.1	1086.5	1134.9	1189.4	1254.2	1328.5	1406.1
27.5°	921.7	930.7	950.6	970.8	999.1	1038.7	1082.0	1137.1	1198.1	1273.3	1359.6
30°	889.5	899.1	916.8	938.6	965.8	1000.6	1044.9	1096.7	1162.2	1235.8	1325.8
32.5°	861.7	870.1	883.5	905.3	932.0	965.7	1006.7	1059.7	1125.1	1199.7	1288.1
35°	818.6	828.2	838.4	855.5	878.6	911.3	956.3	1006.0	1068.7	1141.0	1222.1
37.5°	775.8	786.2	795.3	810.6	831.7	860.6	899.5	951.3	1007.9	1077.6	1155.5
40°	749.1	757.3	764.8	781.1	802.2	829.5	865.7	912.0	972.0	1036.7	1101.5
42.5°	722.4	730.0	736.4	750.6	770.1	796.3	830.7	876.0	931.6	992.0	1049.1
45°	680.2	685.0	692.5	704.8	720.4	744.3	777.7	817.9	864.9	922.2	965.1
47.5°	634.7	642.2	648.3	659.1	672.0	695.4	727.4	761.6	804.3	846.9	877.1
50°	599.9	607.3	616.2	626.4	638.6	660.5	689.8	724.6	760.6	793.3	819.3
52.5°	567.1	574.0	583.5	593.1	608.1	626.6	651.7	682.6	718.1	741.5	763.2
55°	518.7	522.1	533.0	542.6	556.8	570.5	595.7	623.0	644.8	662.6	680.2
57.5°	469.2	473.8	480.1	488.7	502.9	518.9	536.5	560.7	573.5	582.6	596.4
60°	437.6	439.0	443.0	453.2	464.1	478.5	499.0	515.9	525.5	533.0	544.6
62.5°	402.7	402.9	409.8	417.3	425.5	440.9	457.5	471.3	479.2	482.8	493.9
65°	353.8	352.3	356.5	362.6	372.1	382.3	396.7	409.0	408.3	412.3	419.2
67.5°	303.8	302.4	302.4	308.2	316.0	325.2	335.0	342.0	342.1	347.6	351.0
70°	269.9	265.8	268.5	273.4	276.7	284.3	295.2	297.9	298.5	301.2	304.7
72.5°	235.0	233.7	235.8	237.9	240.2	246.1	255.3	257.0	257.1	258.7	264.3
75°	186.7	185.4	184.0	186.1	188.8	192.9	196.3	199.0	198.3	199.0	203.1
77.5°	140.0	136.2	135.5	136.6	137.2	139.8	143.3	143.0	143.7	143.5	148.1
80°	111.1	105.6	104.9	104.9	105.6	107.0	108.4	109.8	107.7	109.8	111.1
82.5°	81.7	78.4	78.3	77.7	77.9	78.1	79.0	79.8	79.4	80.3	81.1
85°	44.9	43.6	41.6	42.9	42.2	40.2	41.6	39.5	38.9	39.5	40.2
87.5°	19.3	19.6	18.0	17.8	16.8	17.1	15.6	14.5	13.4	13.5	14.9
90°	20.0	18.8	16.5	15.2	12.9	11.7	9.4	7.1	4.6	2.3	1.2
92.5°	306.3	378.3	384.5	267.8	160.3	96.2	62.0	41.8	27.3	17.4	14.3
95°	1017.3	1039.7	848.4	524.5	266.4	140.8	88.0	62.2	49.3	39.9	38.7
97.5°	1287.3	1110.2	757.6	418.7	229.5	146.4	108.5	85.2	72.3	65.7	64.3
100°	1352.9	1059.6	675.9	380.2	227.6	159.6	124.4	102.1	89.2	84.5	82.1
102.5°	1313.5	970.4	613.9	364.3	236.1	175.5	141.3	120.9	107.0	103.3	101.9
105°	1187.5	850.7	553.8	357.9	253.5	201.9	169.0	150.2	138.5	132.6	132.6
107.5°	1058.9	768.3	528.5	368.7	279.2	229.2	199.8	180.3	170.6	165.0	162.6
110°	985.6	729.8	521.0	379.0	298.0	249.9	219.4	201.9	191.3	186.6	184.2



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	931.2	707.3	521.0	392.1	315.9	269.6	240.0	222.5	211.9	208.1	205.8
115°	871.8	683.0	524.5	411.8	343.9	300.4	271.0	253.5	242.9	239.3	237.0
117.5°	836.4	671.0	532.3	434.4	372.4	331.3	303.0	283.1	272.5	268.7	265.2
120°	816.7	665.3	539.8	449.4	393.1	352.0	322.7	302.8	292.2	287.5	284.0
122.5°	799.8	660.7	546.3	466.4	412.8	371.7	342.4	320.5	310.0	306.3	303.7
125°	776.8	654.8	557.3	489.3	438.9	400.1	369.6	347.3	336.8	330.9	328.5
127.5°	755.7	652.0	569.8	510.5	463.9	426.7	396.2	372.4	359.1	351.5	348.0
130°	741.6	650.1	577.3	524.5	479.9	443.5	413.0	388.4	373.1	363.8	360.2
132.5°	730.3	650.1	585.7	536.7	494.9	458.6	428.1	402.5	385.4	374.1	369.6
135°	717.0	650.1	597.2	553.8	515.1	478.8	447.1	422.4	403.6	389.6	384.9
137.5°	705.0	651.5	607.8	566.5	529.5	496.3	463.7	439.6	420.8	407.7	404.1
140°	699.3	652.4	612.5	575.0	539.8	505.7	474.0	451.8	433.0	418.9	415.4
142.5°	694.7	653.4	615.3	579.7	546.3	514.2	484.4	463.0	444.2	431.1	428.5
145°	687.6	652.4	618.4	586.7	557.3	526.8	499.9	478.8	462.3	450.6	448.3
147.5°	680.3	649.3	619.6	591.0	564.4	537.7	513.9	495.6	480.4	470.3	468.9
150°	674.7	646.5	619.6	593.8	569.1	543.3	523.3	507.0	491.7	483.4	481.1
152.5°	668.1	642.8	618.6	595.6	573.8	549.9	531.8	516.3	502.9	495.6	494.2
155°	657.1	636.0	616.0	597.2	578.5	558.6	542.1	530.4	518.7	511.6	511.6
157.5°	646.8	628.9	613.0	598.4	582.5	565.3	552.9	542.6	532.5	526.8	527.1
160°	638.3	624.3	610.2	598.4	584.4	569.1	558.6	549.2	541.0	536.2	537.5
162.5°	630.9	618.6	607.3	597.5	586.2	572.9	564.2	556.6	549.4	544.7	545.8
165°	619.6	610.2	603.1	596.1	586.7	577.3	570.3	565.6	559.8	556.2	558.6
167.5°	608.5	602.0	596.5	593.3	586.7	579.0	574.5	571.2	567.9	565.8	567.0
170°	602.0	597.2	593.8	591.4	586.7	580.9	577.3	575.0	572.6	571.5	572.6
172.5°	595.4	591.7	590.0	589.6	585.7	580.9	579.2	577.7	575.4	574.3	576.4
175°	586.7	585.5	585.5	586.7	584.4	580.9	580.9	580.9	579.7	578.5	580.9
177.5°	583.0	582.0	582.0	583.9	583.0	581.1	581.1	582.0	581.1	581.1	583.0
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1614.6	1622.2	1627.1	1636.4	1644.1	1648.4	1652.2	1655.5	1659.3	1662.5	1671.8
5°	1625.0	1642.6	1657.7	1680.8	1702.0	1718.4	1736.1	1751.7	1764.6	1783.1	1797.4
7.5°	1620.4	1651.9	1685.0	1720.8	1757.5	1791.5	1822.9	1852.2	1878.8	1911.0	1939.1
10°	1616.1	1659.0	1701.3	1749.7	1799.5	1841.7	1881.3	1921.5	1950.8	1991.7	2026.4
12.5°	1612.9	1663.3	1714.3	1772.6	1827.2	1886.9	1939.5	1968.9	2013.5	2046.2	2087.5
15°	1599.0	1665.9	1736.1	1801.5	1879.2	1934.4	1980.7	2038.0	2079.6	2121.1	2166.2
17.5°	1574.4	1650.0	1728.6	1814.3	1888.9	1948.1	2007.9	2063.1	2112.7	2168.5	2224.5
20°	1563.0	1638.6	1728.6	1816.4	1889.5	1951.5	2012.8	2073.5	2128.0	2199.6	2264.3
22.5°	1538.9	1630.4	1713.3	1799.1	1874.1	1941.7	2011.1	2080.0	2152.5	2233.3	2314.5
25°	1496.1	1588.8	1676.8	1761.3	1836.9	1921.5	1995.8	2087.8	2180.5	2287.4	2388.3
27.5°	1451.7	1540.4	1621.0	1702.6	1790.9	1886.5	1983.0	2087.4	2208.7	2343.8	2486.1
30°	1415.7	1499.5	1577.9	1661.7	1753.7	1861.5	1967.1	2091.1	2231.6	2383.6	2552.6
32.5°	1373.7	1451.0	1527.2	1616.0	1716.2	1829.9	1953.0	2089.0	2257.8	2430.4	2604.4
35°	1301.9	1366.7	1445.0	1539.7	1652.9	1783.1	1925.5	2086.4	2280.0	2478.3	2624.8
37.5°	1216.7	1277.0	1359.6	1463.4	1582.1	1721.7	1890.8	2081.6	2287.2	2445.4	2492.6
40°	1159.4	1215.3	1301.2	1408.9	1530.2	1678.1	1863.5	2065.3	2264.3	2365.2	2326.3
42.5°	1098.3	1157.0	1240.6	1347.3	1477.8	1638.9	1829.2	2030.9	2197.8	2235.9	2101.6
45°	1002.0	1062.6	1145.1	1252.8	1393.2	1567.7	1766.1	1949.4	2045.5	1976.7	1768.8
47.5°	912.4	969.3	1045.7	1156.8	1301.7	1482.2	1673.2	1819.5	1827.1	1662.8	1440.8
50°	851.3	903.8	980.9	1092.0	1235.8	1418.5	1590.8	1706.1	1654.3	1468.1	1254.9
52.5°	791.3	842.7	918.7	1028.6	1170.8	1338.3	1498.7	1579.5	1482.0	1291.0	1108.7
55°	704.8	749.7	824.0	925.6	1060.6	1216.0	1352.3	1380.3	1253.4	1065.3	917.5
57.5°	620.3	662.3	729.8	823.3	946.7	1084.4	1191.0	1185.1	1051.1	889.6	772.2
60°	563.0	603.9	663.9	755.2	867.7	986.3	1077.6	1055.8	922.9	783.9	685.0
62.5°	511.8	548.3	605.0	684.9	787.5	897.4	972.4	940.2	810.0	688.4	610.4
65°	436.3	466.9	515.3	583.5	668.6	759.3	817.3	775.7	664.6	569.9	507.2
67.5°	364.2	388.7	429.3	483.6	556.3	629.1	664.4	622.6	533.7	464.5	418.1
70°	318.3	340.1	371.4	419.9	483.2	544.6	571.2	533.7	457.4	398.1	364.7
72.5°	272.5	290.5	318.0	361.5	412.3	465.5	488.9	453.0	390.3	340.2	309.0
75°	210.7	222.9	242.0	272.0	312.1	354.5	367.4	336.1	295.8	258.3	237.9
77.5°	150.8	161.2	175.6	194.5	223.0	249.8	261.2	243.1	212.0	188.2	171.5
80°	115.8	121.3	133.6	149.3	171.8	188.8	196.3	184.7	162.9	145.2	132.2
82.5°	82.6	88.1	95.4	108.4	122.7	134.3	142.3	134.5	118.8	104.8	97.4
85°	40.2	43.6	47.7	53.1	64.0	70.9	70.2	65.4	59.3	53.8	49.8
87.5°	14.6	15.7	17.8	21.0	23.0	25.4	27.1	26.2	24.4	23.0	21.7
90°	2.3	4.6	7.1	9.4	11.7	12.9	15.2	16.5	18.8	20.0	21.1
92.5°	17.4	27.3	41.8	62.0	96.2	160.3	267.8	384.5	378.3	306.3	207.9
95°	39.9	49.3	62.2	88.0	140.8	266.4	524.5	848.4	1039.7	1017.3	843.6
97.5°	65.7	72.3	85.2	108.5	146.4	229.5	418.7	757.6	1110.2	1287.3	1256.5
100°	84.5	89.2	102.1	124.4	159.6	227.6	380.2	675.9	1059.6	1352.9	1443.3
102.5°	103.3	107.0	120.9	141.3	175.5	236.1	364.3	613.9	970.4	1313.5	1506.2
105°	132.6	138.5	150.2	169.0	201.9	253.5	357.9	553.8	850.7	1187.5	1469.2
107.5°	165.0	170.6	180.3	199.8	229.2	279.2	368.7	528.5	768.3	1058.9	1336.8
110°	186.6	191.3	201.9	219.4	249.9	298.0	379.0	521.0	729.8	985.6	1239.1





TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	208.1	211.9	222.5	240.0	269.6	315.9	392.1	521.0	707.3	931.2	1162.2
115°	239.3	242.9	253.5	271.0	300.4	343.9	411.8	524.5	683.0	871.8	1065.5
117.5°	268.7	272.5	283.1	303.0	331.3	372.4	434.4	532.3	671.0	836.4	1003.0
120°	287.5	292.2	302.8	322.7	352.0	393.1	449.4	539.8	665.3	816.7	969.3
122.5°	306.3	310.0	320.5	342.4	371.7	412.8	466.4	546.3	660.7	799.8	943.9
125°	330.9	336.8	347.3	369.6	400.1	438.9	489.3	557.3	654.8	776.8	907.1
127.5°	351.5	359.1	372.4	396.2	426.7	463.9	510.5	569.8	652.0	755.7	869.5
130°	363.8	373.1	388.4	413.0	443.5	479.9	524.5	577.3	650.1	741.6	846.1
132.5°	374.1	385.4	402.5	428.1	458.6	494.9	536.7	585.7	650.1	730.3	822.5
135°	389.6	403.6	422.4	447.1	478.8	515.1	553.8	597.2	650.1	717.0	792.0
137.5°	407.7	420.8	439.6	463.7	496.3	529.5	566.5	607.8	651.5	705.0	766.3
140°	418.9	433.0	451.8	474.0	505.7	539.8	575.0	612.5	652.4	699.3	752.1
142.5°	431.1	444.2	463.0	484.4	514.2	546.3	579.7	615.3	653.4	694.7	739.9
145°	450.6	462.3	478.8	499.9	526.8	557.3	586.7	618.4	652.4	687.6	724.0
147.5°	470.3	480.4	495.6	513.9	537.7	564.4	591.0	619.6	649.3	680.3	709.0
150°	483.4	491.7	507.0	523.3	543.3	569.1	593.8	619.6	646.5	674.7	700.5
152.5°	495.6	502.9	516.3	531.8	549.9	573.8	595.6	618.6	642.8	668.1	691.2
155°	511.6	518.7	530.4	542.1	558.6	578.5	597.2	616.0	636.0	657.1	677.0
157.5°	526.8	532.5	542.6	552.9	565.3	582.5	598.4	613.0	628.9	646.8	663.0
160°	536.2	541.0	549.2	558.6	569.1	584.4	598.4	610.2	624.3	638.3	653.6
162.5°	544.7	549.4	556.6	564.2	572.9	586.2	597.5	607.3	618.6	630.9	643.3
165°	556.2	559.8	565.6	570.3	577.3	586.7	596.1	603.1	610.2	619.6	628.9
167.5°	565.8	567.9	571.2	574.5	579.0	586.7	593.3	596.5	602.0	608.5	615.3
170°	571.5	572.6	575.0	577.3	580.9	586.7	591.4	593.8	597.2	602.0	607.8
172.5°	574.3	575.4	577.7	579.2	580.9	585.7	589.6	590.0	591.7	595.4	599.4
175°	578.5	579.7	580.9	580.9	580.9	584.4	586.7	585.5	585.5	586.7	590.3
177.5°	581.1	581.1	582.0	581.1	581.1	583.0	583.9	582.0	582.0	583.0	583.9
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1679.5	1683.8	1693.1	1689.8	1694.3	1696.4	1698.6
5°	1815.1	1836.9	1846.4	1845.1	1859.5	1856.0	1852.6
7.5°	1968.3	1991.3	2004.1	2020.0	2029.3	2029.9	2038.0
10°	2055.1	2085.1	2097.3	2114.4	2125.3	2131.4	2130.7
12.5°	2121.6	2145.1	2172.5	2180.9	2195.6	2203.3	2200.5
15°	2201.6	2239.1	2267.8	2282.0	2300.5	2305.9	2313.4
17.5°	2273.0	2323.3	2356.7	2401.2	2417.9	2428.1	2422.2
20°	2327.0	2393.2	2426.5	2479.7	2509.0	2524.7	2519.2
22.5°	2390.9	2462.4	2524.2	2570.2	2614.7	2635.9	2640.3
25°	2500.1	2598.3	2689.0	2749.7	2804.8	2817.7	2846.4
27.5°	2622.3	2738.0	2835.0	2898.7	2937.2	2951.6	2960.6
30°	2699.2	2814.4	2887.3	2928.2	2940.4	2939.1	2937.7
32.5°	2736.8	2808.9	2823.0	2811.5	2783.4	2759.7	2734.9
35°	2683.5	2629.7	2549.2	2445.6	2369.2	2292.3	2284.7
37.5°	2413.5	2241.3	2107.4	1957.8	1871.6	1818.3	1781.5
40°	2159.3	1963.7	1801.5	1675.4	1587.5	1552.7	1518.6
42.5°	1883.4	1696.6	1552.9	1447.4	1381.4	1342.8	1315.8
45°	1530.2	1365.2	1252.8	1176.5	1124.0	1094.0	1076.9
47.5°	1253.8	1131.9	1036.3	981.3	945.0	921.7	921.8
50°	1105.6	989.1	925.6	882.0	850.6	832.2	835.7
52.5°	974.1	887.1	832.9	796.4	773.3	761.9	761.5
55°	814.6	751.8	716.4	689.8	674.1	661.2	663.9
57.5°	696.7	643.9	620.2	598.0	587.1	582.0	574.4
60°	623.7	582.8	562.3	544.6	533.7	529.6	522.1
62.5°	558.8	526.6	506.8	492.2	482.4	481.1	475.2
65°	469.6	445.0	427.4	420.5	410.3	407.6	407.6
67.5°	387.2	369.6	355.8	349.5	345.1	345.7	342.4
70°	335.4	321.0	312.1	305.4	301.9	302.7	299.9
72.5°	293.4	277.4	269.6	265.6	261.1	262.9	261.8
75°	222.2	214.0	210.0	205.8	203.1	201.8	200.4
77.5°	163.2	155.9	152.8	150.5	150.9	147.6	150.3
80°	126.1	120.0	118.0	114.5	113.8	113.8	113.1
82.5°	92.3	88.9	87.4	84.5	83.3	84.4	82.6
85°	47.7	44.9	44.3	44.3	42.9	41.6	44.9
87.5°	21.9	20.0	20.4	19.9	19.9	19.6	18.5
90°	22.3	23.4	25.9	25.9	25.9	27.0	27.0
92.5°	150.9	113.6	96.2	81.2	78.4	76.7	74.8
95°	665.3	521.0	422.4	339.1	303.9	294.6	275.8
97.5°	1131.5	990.9	853.7	781.2	715.6	681.6	666.5
100°	1385.8	1265.0	1142.9	1062.0	977.4	934.0	915.2
102.5°	1541.7	1483.7	1401.1	1314.4	1254.4	1207.2	1193.2
105°	1629.9	1681.5	1668.6	1631.0	1592.4	1568.8	1554.8
107.5°	1551.3	1683.8	1745.1	1764.1	1763.9	1756.2	1746.8
110°	1462.1	1627.5	1727.3	1780.1	1802.4	1810.6	1810.6



TEST NUMBER: P333288-840

CATALOG NUMBER: S125DIP-S1090D1205U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1373.8	1541.2	1658.7	1736.0	1774.2	1794.6	1803.1
115°	1247.4	1408.1	1536.0	1627.5	1683.8	1716.7	1731.9
117.5°	1159.8	1298.3	1415.6	1507.1	1565.4	1598.0	1607.3
120°	1110.0	1239.1	1342.4	1429.3	1485.5	1517.2	1526.6
122.5°	1074.4	1189.4	1286.1	1363.5	1415.1	1446.8	1455.3
125°	1026.7	1128.8	1213.4	1279.0	1327.2	1352.9	1364.7
127.5°	981.2	1076.5	1155.6	1215.2	1257.7	1282.1	1287.3
130°	949.3	1040.9	1117.1	1175.8	1214.5	1238.0	1245.0
132.5°	919.3	1002.3	1075.8	1134.5	1173.2	1194.8	1202.7
135°	873.0	948.2	1015.0	1066.6	1105.4	1126.5	1133.6
137.5°	831.7	894.1	951.0	997.1	1032.4	1051.9	1059.6
140°	807.3	861.3	910.6	954.0	984.5	1002.1	1007.9
142.5°	786.7	833.1	875.9	912.7	938.5	955.1	960.1
145°	760.3	796.8	828.4	856.6	876.6	889.5	894.1
147.5°	738.5	766.5	790.4	812.7	828.7	836.2	838.3
150°	726.4	748.6	769.7	787.4	801.4	806.2	807.3
152.5°	714.2	734.6	751.0	765.8	777.0	781.7	782.9
155°	695.8	712.3	725.2	736.9	745.1	748.6	749.8
157.5°	678.4	691.2	701.3	710.3	717.2	720.4	720.2
160°	665.3	677.0	685.3	693.5	699.3	701.8	700.5
162.5°	654.1	663.9	671.2	677.5	682.5	683.0	682.7
165°	637.1	644.2	650.1	654.8	657.1	657.1	657.1
167.5°	620.8	626.1	630.4	632.7	634.8	633.9	633.7
170°	611.4	614.9	617.2	619.6	620.8	620.8	619.6
172.5°	602.9	605.5	606.9	607.3	609.5	607.6	606.4
175°	590.3	592.6	592.6	592.6	593.8	591.4	590.3
177.5°	584.8	584.8	584.8	583.9	584.8	582.0	582.0
180°	582.0	582.0	582.0	582.0	582.0	582.0	582.0

(END OF REPORT)