

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: P332625-840

Luminaire Tested: **S124DIP-S1020D365U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332625-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S1020D365U840-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6127.2 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

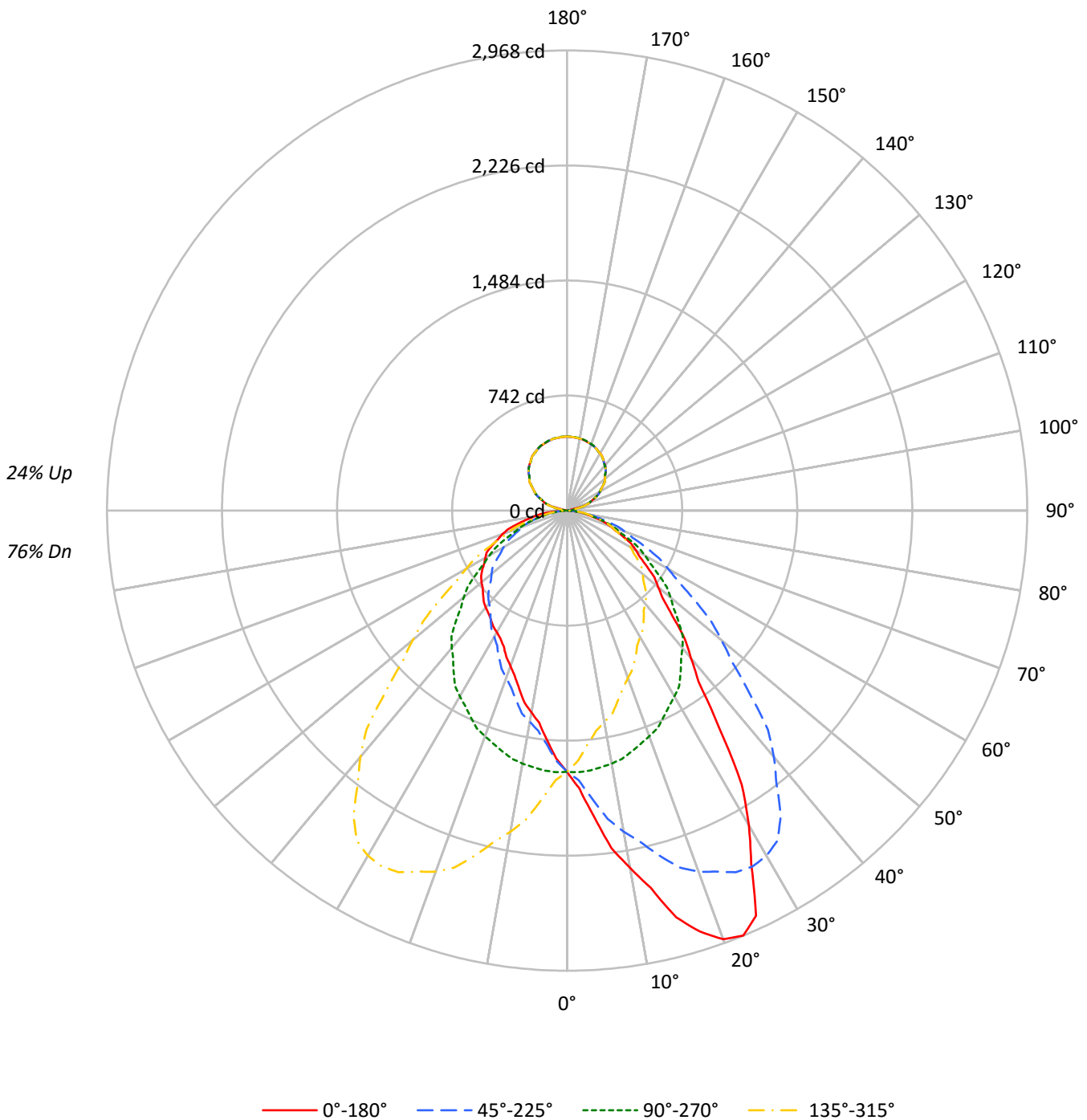
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76
1	104	100	96	92	99	95	91	88	86	84	81	78	76	74	71	70	68	65
2	95	87	81	76	90	83	78	73	76	72	68	69	66	63	63	60	58	55
3	87	77	70	64	82	74	67	62	68	62	58	62	57	54	56	53	50	47
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40
5	73	61	53	47	70	59	51	46	54	48	43	50	45	40	46	41	38	35
6	68	55	47	41	64	53	46	40	49	43	38	45	40	36	42	37	34	31
7	63	50	42	36	60	48	41	35	45	38	34	41	36	32	38	33	30	28
8	59	46	38	32	56	44	37	32	41	35	30	38	32	28	35	30	27	25
9	55	42	34	29	52	41	33	28	38	31	27	35	30	26	32	28	24	22
10	51	39	31	26	49	37	30	26	35	29	25	32	27	23	30	26	22	20

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

	0°	90°	180°	270°
0°	13605	13605	13605	13605
5°	16022	13639	12039	13639
10°	19184	13581	10839	13581
15°	22697	13443	9954	13443
20°	25274	13302	9164	13302
25°	25683	13097	8620	13097
30°	21853	12899	8447	12899
35°	16802	12577	8449	12577
40°	13095	12198	8608	12198
45°	10919	11628	8752	11628
50°	9610	10934	9048	10934
55°	8804	10101	9413	10101
60°	8251	9357	9852	9357
65°	7681	8521	10214	8521
70°	7020	7695	10447	7695
75°	6273	6772	10321	6772
80°	5258	5551	9995	5551
85°	3881	4011	9568	4011



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.2	2.7
10°-20°	506.1	8.3
20°-30°	802.5	13.1
30°-40°	893.1	14.6
40°-50°	812.9	13.3
50°-60°	664.3	10.8
60°-70°	474.2	7.7
70°-80°	261.1	4.3
80°-90°	72.7	1.2
90°-100°	16.3	0.3
100°-110°	104.1	1.7
110°-120°	199.1	3.2
120°-130°	252.7	4.1
130°-140°	270.4	4.4
140°-150°	252.8	4.1
150°-160°	203.9	3.3
160°-170°	131.5	2.1
170°-180°	45.3	0.7
0°-30°	1472.7	24.0
0°-40°	2365.8	38.6
0°-60°	3843.0	62.7
0°-90°	4651.1	75.9
90°-120°	319.5	5.2
90°-150°	1095.3	17.9
90°-180°	1476.0	24.1
0°-180°	6127.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1685	1685	1685	1685	1685	
5°	1977	1683	1486	1683	1977	201
15°	2716	1608	1191	1608	2716	767
25°	2883	1470	968	1470	2883	1271
35°	1705	1276	857	1276	1705	1082
45°	956	1018	767	1018	956	753
55°	626	718	669	718	626	565
65°	402	446	535	446	402	398
75°	201	217	331	217	201	214
85°	42	43	103	43	42	51
90°	11	1	11	1	11	6
95°	10	20	10	20	10	8
105°	102	107	102	107	102	89
115°	202	201	202	201	202	200
125°	284	282	284	282	284	253
135°	352	350	352	350	352	271
145°	406	403	406	403	406	253
155°	442	442	442	442	442	204
165°	464	466	464	466	464	131
175°	474	477	474	477	474	45
180°	477	477	477	477	477	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1793.6	1793.1	1787.5	1786.4	1782.4	1777.5	1776.4	1767.4	1749.5	1741.1	1738.9
5°	1977.1	1991.0	1972.9	1969.4	1967.3	1944.3	1932.4	1918.4	1886.3	1867.4	1852.8
7.5°	2196.1	2197.7	2189.8	2183.3	2165.6	2145.5	2115.4	2083.3	2045.0	2005.2	1975.1
10°	2340.2	2345.7	2336.6	2335.2	2299.7	2277.2	2232.6	2194.9	2151.6	2103.4	2059.5
12.5°	2492.0	2484.2	2479.6	2449.7	2443.2	2402.4	2350.5	2311.7	2244.9	2189.5	2130.9
15°	2715.7	2700.4	2690.6	2649.4	2629.2	2572.6	2517.4	2474.9	2387.6	2304.5	2241.7
17.5°	2846.9	2862.4	2839.7	2822.8	2770.5	2730.8	2674.4	2585.1	2516.8	2413.6	2334.3
20°	2941.9	2943.3	2930.7	2913.3	2872.1	2821.9	2760.4	2662.6	2581.0	2478.3	2369.4
22.5°	2967.6	2967.9	2962.5	2946.2	2915.1	2874.3	2812.4	2730.8	2631.8	2520.2	2411.4
25°	2883.3	2880.4	2886.8	2904.9	2893.1	2880.4	2844.9	2784.1	2692.0	2573.9	2456.7
27.5°	2569.9	2589.2	2624.6	2669.4	2712.4	2745.2	2754.4	2742.0	2684.8	2587.8	2465.0
30°	2344.3	2368.0	2394.6	2439.2	2525.8	2575.4	2629.9	2671.0	2648.0	2570.5	2456.0
32.5°	2096.4	2102.2	2141.6	2192.4	2271.7	2367.0	2453.4	2537.0	2564.8	2524.2	2428.6
35°	1704.9	1714.5	1757.2	1807.5	1904.5	2021.0	2150.9	2266.8	2362.5	2400.9	2352.0
37.5°	1391.2	1419.3	1449.4	1503.4	1588.8	1693.7	1828.7	1978.6	2121.2	2216.7	2232.9
40°	1242.6	1260.1	1281.7	1322.9	1395.5	1498.8	1614.8	1786.6	1938.0	2074.9	2119.5
42.5°	1125.4	1135.6	1148.8	1186.1	1241.4	1344.1	1450.0	1601.0	1753.1	1916.7	1991.7
45°	956.4	966.9	989.3	1010.9	1052.8	1124.0	1222.4	1346.7	1499.5	1657.4	1795.5
47.5°	834.4	841.1	854.3	877.6	913.1	960.1	1040.2	1144.0	1285.7	1438.9	1586.1
50°	765.2	770.7	781.2	802.1	829.4	871.2	936.9	1033.9	1144.9	1299.2	1443.7
52.5°	710.4	712.7	720.3	734.6	756.2	791.4	845.3	925.5	1028.7	1166.3	1310.2
55°	625.5	628.3	635.3	645.8	664.6	686.9	728.1	788.2	878.3	997.6	1122.6
57.5°	555.7	557.6	563.5	567.5	583.1	601.3	632.9	675.8	744.1	845.3	956.8
60°	511.0	509.7	516.6	520.1	530.6	545.9	570.4	611.6	670.9	752.6	855.2
62.5°	467.5	465.5	471.4	475.9	482.0	495.1	515.0	547.3	595.5	669.3	758.0
65°	402.1	399.3	402.8	408.4	413.9	421.0	435.7	464.2	502.6	555.7	623.4
67.5°	336.5	339.4	340.0	342.7	346.0	355.5	365.6	385.8	412.8	455.3	512.7
70°	297.4	298.1	300.9	300.9	303.0	311.3	319.7	331.6	358.1	397.3	444.0
72.5°	258.3	261.3	260.1	262.4	263.9	269.4	275.6	286.9	309.5	338.6	378.1
75°	201.1	203.2	203.2	203.9	205.9	208.0	212.9	221.3	237.3	259.0	286.2
77.5°	146.6	146.9	147.8	150.4	150.4	153.7	157.3	164.1	172.0	186.8	203.4
80°	113.1	114.5	113.8	115.2	115.2	118.0	119.4	127.7	131.3	141.0	154.3
82.5°	82.9	84.3	84.2	86.1	87.3	87.9	89.8	93.1	96.6	105.2	110.7
85°	41.9	43.3	41.9	43.3	45.3	46.0	48.2	48.9	51.7	53.7	58.7
87.5°	14.4	16.1	16.1	16.6	17.7	18.2	18.6	18.0	20.1	20.6	22.6
90°	10.7	10.5	10.4	10.2	10.1	9.8	9.3	8.8	8.3	7.9	7.2
92.5°	9.9	9.8	9.8	9.8	9.7	9.5	9.0	8.5	8.1	7.6	7.0
95°	10.3	10.3	10.2	10.1	10.0	9.8	9.3	8.8	8.3	7.9	7.8
97.5°	10.0	9.9	9.8	9.8	9.7	9.6	9.6	9.5	9.5	9.4	18.3
100°	10.0	9.9	9.8	9.8	9.7	10.3	11.6	13.0	14.3	15.8	26.7
102.5°	10.3	10.3	10.2	10.2	10.2	17.5	32.0	46.6	61.1	75.6	77.1
105°	101.7	104.5	107.4	110.3	113.1	114.2	113.5	112.8	112.1	111.4	111.0
107.5°	141.8	141.5	141.2	140.9	140.6	140.3	139.9	139.6	139.2	138.9	138.3
110°	159.2	159.0	158.8	158.4	158.2	158.0	157.8	157.7	157.5	157.4	156.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	176.6	176.3	176.0	175.7	175.4	175.2	175.3	175.3	175.3	175.4	175.1
115°	202.0	202.0	202.0	202.0	202.0	202.0	201.8	201.6	201.5	201.3	201.4
117.5°	227.8	227.9	227.9	227.9	227.9	228.0	228.0	228.0	228.1	228.1	227.9
120°	244.1	244.3	244.4	244.6	244.8	244.8	244.6	244.4	244.3	244.1	244.2
122.5°	260.1	260.2	260.4	260.5	260.7	260.7	260.6	260.5	260.4	260.4	260.2
125°	284.1	284.0	284.0	283.9	283.8	283.6	283.4	283.2	282.9	282.7	282.9
127.5°	305.2	305.2	305.3	305.4	305.4	305.5	305.5	305.6	305.6	305.7	305.3
130°	319.4	319.4	319.4	319.4	319.4	319.4	319.3	319.2	319.1	319.1	318.8
132.5°	332.5	332.6	332.6	332.8	332.9	332.9	332.8	332.6	332.5	332.4	332.1
135°	352.2	352.1	351.9	351.7	351.6	351.4	351.3	351.1	351.0	350.8	350.5
137.5°	369.1	369.1	369.2	369.2	369.3	369.2	369.1	368.9	368.7	368.5	368.2
140°	380.8	380.7	380.6	380.6	380.5	380.3	380.1	379.8	379.6	379.4	379.2
142.5°	390.5	390.5	390.5	390.5	390.4	390.3	390.2	390.0	389.8	389.7	389.6
145°	405.5	405.3	405.2	405.0	404.8	404.7	404.7	404.6	404.5	404.3	404.3
147.5°	417.8	417.7	417.6	417.6	417.5	417.4	417.4	417.3	417.2	417.2	417.2
150°	425.8	425.7	425.7	425.6	425.5	425.5	425.5	425.5	425.5	425.5	425.5
152.5°	432.6	432.7	432.7	432.7	432.8	432.8	432.6	432.5	432.4	432.3	432.4
155°	441.8	442.1	442.3	442.5	442.8	442.7	442.4	442.1	441.8	441.5	441.7
157.5°	449.6	450.0	450.4	450.8	451.2	451.2	450.8	450.4	450.0	449.6	449.8
160°	454.6	455.1	455.7	456.2	456.6	456.6	456.2	455.7	455.1	454.6	454.7
162.5°	458.7	459.2	459.8	460.3	460.8	460.9	460.4	459.9	459.5	459.0	459.1
165°	464.3	465.0	465.7	466.5	467.2	467.3	466.6	466.0	465.3	464.6	464.6
167.5°	468.6	469.3	470.1	470.9	471.7	471.7	471.1	470.4	469.7	469.0	469.0
170°	471.1	471.9	472.7	473.5	474.2	474.3	473.7	473.1	472.4	471.8	471.7
172.5°	472.5	473.4	474.2	475.1	475.9	476.1	475.4	474.8	474.1	473.5	473.4
175°	474.3	475.2	476.3	477.2	478.2	478.3	477.6	476.9	476.2	475.3	475.3
177.5°	475.4	476.3	477.0	477.8	478.5	478.7	478.2	477.7	477.2	476.6	476.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1739.5	1731.6	1726.1	1721.6	1709.3	1702.0	1696.5	1688.6	1679.7	1670.2	1658.5
5°	1838.2	1814.4	1797.0	1770.5	1745.3	1724.3	1702.7	1683.1	1659.4	1633.7	1614.8
7.5°	1941.9	1906.6	1861.4	1822.1	1778.0	1739.6	1705.3	1670.0	1633.5	1598.0	1565.5
10°	2007.8	1962.5	1912.2	1852.8	1797.0	1747.4	1701.3	1656.7	1613.4	1570.0	1533.1
12.5°	2078.7	2022.2	1947.9	1878.6	1815.9	1749.7	1694.0	1639.3	1587.1	1541.6	1498.4
15°	2173.9	2092.2	2006.4	1913.6	1831.2	1753.7	1677.6	1608.5	1549.8	1489.8	1447.9
17.5°	2232.5	2131.4	2033.3	1936.2	1836.4	1738.8	1656.7	1576.9	1503.5	1443.9	1391.1
20°	2271.0	2170.5	2048.3	1951.3	1832.6	1732.0	1637.1	1548.4	1471.7	1408.2	1353.6
22.5°	2304.5	2188.4	2066.2	1938.4	1820.3	1713.6	1609.7	1520.6	1442.1	1375.1	1322.9
25°	2322.7	2189.3	2056.7	1929.7	1795.5	1669.2	1575.0	1470.3	1386.4	1316.0	1260.1
27.5°	2324.6	2182.0	2031.9	1890.8	1752.4	1634.8	1515.8	1422.2	1335.2	1260.7	1207.1
30°	2318.4	2169.8	2008.5	1855.6	1716.7	1588.9	1485.6	1383.7	1295.1	1221.0	1165.2
32.5°	2299.0	2144.0	1978.3	1816.5	1672.5	1547.6	1441.0	1344.0	1257.6	1184.7	1126.1
35°	2242.4	2089.5	1912.9	1744.6	1597.3	1471.0	1374.6	1276.2	1189.6	1120.4	1064.0
37.5°	2154.0	2015.8	1836.2	1662.1	1517.4	1390.5	1295.1	1206.1	1128.0	1057.8	999.9
40°	2076.9	1955.4	1775.3	1605.7	1449.4	1328.6	1239.2	1157.5	1080.1	1013.7	958.6
42.5°	1988.1	1882.3	1716.2	1536.4	1385.6	1264.4	1177.2	1103.9	1030.9	969.6	914.4
45°	1829.8	1760.0	1603.6	1437.4	1280.4	1165.9	1082.8	1018.5	957.2	897.1	851.0
47.5°	1647.7	1613.1	1481.5	1323.6	1174.6	1061.7	989.7	930.3	876.5	825.6	785.0
50°	1525.4	1508.6	1394.8	1242.6	1100.2	994.1	921.5	870.6	824.5	779.8	741.4
52.5°	1404.7	1404.2	1301.6	1162.3	1030.5	928.3	856.2	808.6	768.6	732.4	697.8
55°	1220.3	1239.9	1159.6	1035.3	917.4	825.2	760.2	717.7	689.7	659.7	633.9
57.5°	1051.0	1083.4	1017.1	907.7	809.3	724.4	667.8	635.8	606.1	587.9	569.2
60°	940.4	971.1	919.5	827.3	734.5	661.9	608.0	579.5	553.6	541.1	527.8
62.5°	842.1	869.5	831.2	745.8	665.2	595.3	550.0	522.5	505.0	491.3	482.5
65°	701.7	724.7	691.9	629.8	560.6	504.7	467.8	446.1	429.4	423.7	413.9
67.5°	567.1	588.1	570.4	517.6	462.1	419.9	390.9	370.1	360.2	355.4	348.4
70°	487.3	508.3	489.4	443.3	400.7	365.2	337.9	326.0	315.6	313.5	303.7
72.5°	419.7	433.9	415.2	379.1	342.6	312.7	291.5	279.1	273.7	269.9	264.6
75°	314.9	327.4	314.9	286.9	261.1	240.1	222.0	217.1	210.9	208.7	205.2
77.5°	222.9	233.7	224.1	206.6	187.3	171.2	161.4	155.1	153.7	150.1	151.8
80°	170.4	177.3	168.2	156.4	141.0	129.9	122.9	119.4	115.2	113.8	116.5
82.5°	122.3	125.4	120.8	112.8	101.4	94.1	89.4	85.3	84.4	84.7	84.7
85°	63.5	62.8	62.1	55.1	51.7	46.8	44.0	43.3	42.6	44.0	45.3
87.5°	22.5	22.9	22.3	19.9	18.1	16.2	15.5	14.7	15.5	16.2	17.0
90°	6.6	6.0	5.4	4.5	3.7	2.8	1.9	1.1	1.9	2.8	3.7
92.5°	6.3	5.7	5.0	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.6
95°	7.7	7.6	7.6	8.9	11.5	14.2	17.0	19.6	17.0	14.2	11.5
97.5°	27.2	36.0	44.8	48.4	46.8	45.0	43.3	41.7	43.3	45.0	46.8
100°	37.6	48.6	59.5	64.2	62.8	61.4	60.0	58.6	60.0	61.4	62.8
102.5°	78.6	80.0	81.4	81.6	80.5	79.5	78.5	77.4	78.5	79.5	80.5
105°	110.6	110.2	109.8	109.4	108.9	108.4	107.9	107.4	107.9	108.4	108.9
107.5°	137.7	137.2	136.6	136.3	136.0	135.8	135.5	135.3	135.5	135.8	136.0
110°	156.4	155.9	155.5	155.1	154.9	154.6	154.4	154.2	154.4	154.6	154.9





TEST NUMBER: P332625-840

CATALOG NUMBER: S124DIP-S1020D365U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	174.9	174.7	174.5	174.2	173.7	173.3	172.9	172.5	172.9	173.3	173.7
115°	201.5	201.6	201.6	201.6	201.3	201.1	200.9	200.6	200.9	201.1	201.3
117.5°	227.8	227.6	227.4	227.2	226.9	226.5	226.2	225.9	226.2	226.5	226.9
120°	244.3	244.4	244.4	244.3	244.0	243.7	243.4	243.1	243.4	243.7	244.0
122.5°	260.1	260.0	259.9	259.8	259.6	259.4	259.2	259.0	259.2	259.4	259.6
125°	283.0	283.2	283.3	283.3	282.9	282.6	282.3	282.0	282.3	282.6	282.9
127.5°	304.9	304.6	304.2	304.0	303.9	303.8	303.8	303.7	303.8	303.8	303.9
130°	318.6	318.3	318.1	318.0	317.9	317.8	317.7	317.6	317.7	317.8	317.9
132.5°	331.8	331.5	331.2	331.0	330.9	330.7	330.6	330.5	330.6	330.7	330.9
135°	350.2	349.9	349.5	349.4	349.5	349.6	349.7	349.7	349.7	349.6	349.5
137.5°	367.8	367.5	367.2	367.0	366.9	366.9	366.9	366.8	366.9	366.9	366.9
140°	379.1	378.9	378.7	378.6	378.4	378.3	378.1	378.0	378.1	378.3	378.4
142.5°	389.5	389.4	389.3	389.1	388.8	388.5	388.2	388.0	388.2	388.5	388.8
145°	404.3	404.3	404.3	404.2	404.0	403.7	403.5	403.3	403.5	403.7	404.0
147.5°	417.3	417.4	417.5	417.3	416.9	416.4	416.0	415.5	416.0	416.4	416.9
150°	425.6	425.7	425.8	425.7	425.4	425.0	424.6	424.3	424.6	425.0	425.4
152.5°	432.5	432.7	432.8	432.8	432.5	432.3	432.0	431.8	432.0	432.3	432.5
155°	441.9	442.2	442.4	442.5	442.4	442.3	442.3	442.2	442.3	442.3	442.4
157.5°	450.1	450.4	450.6	450.8	450.8	450.9	450.9	451.0	450.9	450.9	450.8
160°	454.8	454.9	455.0	455.1	455.4	455.7	455.9	456.2	455.9	455.7	455.4
162.5°	459.1	459.2	459.3	459.5	459.8	460.1	460.4	460.7	460.4	460.1	459.8
165°	464.6	464.6	464.6	464.8	465.2	465.6	466.1	466.5	466.1	465.6	465.2
167.5°	469.1	469.1	469.2	469.4	469.8	470.2	470.6	471.0	470.6	470.2	469.8
170°	471.7	471.6	471.5	471.7	472.2	472.6	473.1	473.6	473.1	472.6	472.2
172.5°	473.4	473.3	473.2	473.4	473.9	474.3	474.8	475.3	474.8	474.3	473.9
175°	475.2	475.1	475.0	475.2	475.7	476.3	476.7	477.2	476.7	476.3	475.7
177.5°	476.4	476.3	476.1	476.3	476.7	477.2	477.6	478.1	477.6	477.2	476.7
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P332625-840

CATALOG NUMBER: S124DIP-S1020D365U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1652.8	1647.9	1640.6	1630.5	1622.1	1613.3	1611.0	1607.6	1614.4	1608.7	1607.1
5°	1598.7	1584.1	1565.2	1543.6	1531.0	1512.9	1509.3	1502.4	1495.4	1494.7	1487.7
7.5°	1541.4	1519.8	1495.1	1473.1	1452.7	1432.8	1419.9	1417.0	1406.7	1400.7	1393.7
10°	1504.5	1477.9	1449.4	1428.4	1404.6	1383.7	1369.1	1360.7	1353.6	1345.9	1339.0
12.5°	1460.9	1432.7	1409.1	1386.4	1358.3	1342.3	1318.2	1303.6	1302.3	1302.4	1284.2
15°	1410.2	1382.3	1345.9	1313.8	1298.5	1267.8	1254.6	1237.8	1227.3	1216.8	1208.5
17.5°	1352.3	1317.5	1289.2	1252.3	1222.9	1198.5	1181.1	1171.0	1155.3	1140.4	1129.7
20°	1316.0	1279.0	1248.9	1209.8	1177.7	1147.7	1133.1	1119.1	1107.2	1094.7	1082.8
22.5°	1279.1	1240.4	1203.7	1165.7	1135.9	1104.2	1090.0	1071.1	1059.8	1052.8	1040.9
25°	1221.0	1179.1	1137.2	1101.0	1070.3	1042.3	1023.5	1008.8	996.2	990.7	983.0
27.5°	1157.9	1116.3	1075.8	1034.6	999.8	979.5	964.4	953.3	946.1	938.7	935.2
30°	1117.7	1074.4	1031.2	992.7	960.6	940.4	926.5	918.8	913.1	909.7	906.2
32.5°	1076.9	1034.2	988.7	953.6	924.8	906.9	896.3	888.6	885.8	884.5	883.2
35°	1011.6	968.3	926.5	895.0	867.8	860.8	851.7	847.5	846.2	851.0	853.1
37.5°	948.4	908.2	869.6	839.1	821.3	811.1	808.0	808.2	813.1	817.5	822.5
40°	907.6	868.5	832.1	805.7	788.9	782.6	781.2	784.7	790.3	795.2	800.7
42.5°	867.9	829.4	796.4	771.5	759.8	754.1	755.0	758.4	766.3	772.2	780.6
45°	806.4	774.3	742.1	721.9	712.1	713.5	713.5	719.7	727.4	736.5	745.6
47.5°	748.4	716.0	689.6	672.6	667.5	666.3	670.2	678.4	689.4	700.6	713.4
50°	709.3	678.5	655.5	640.2	634.6	636.7	642.3	649.9	663.2	677.2	690.4
52.5°	669.6	641.7	620.4	606.1	602.2	606.0	611.6	623.7	635.3	650.4	666.4
55°	608.0	584.3	567.5	557.1	555.7	557.8	564.1	577.3	594.1	613.0	628.3
57.5°	546.7	526.9	511.6	504.3	505.0	507.0	517.4	533.1	551.0	571.1	590.9
60°	505.4	487.3	474.7	469.2	469.8	474.0	486.6	501.3	523.6	543.1	564.1
62.5°	466.4	450.4	438.4	433.4	432.4	441.6	453.6	468.9	491.2	513.0	535.6
65°	403.5	390.9	381.2	378.4	380.5	387.5	402.8	423.0	441.9	464.9	488.7
67.5°	342.0	331.7	325.1	326.3	328.8	339.1	352.0	369.4	390.8	414.7	438.2
70°	303.0	293.2	287.6	288.3	292.6	305.1	316.3	333.7	356.8	381.2	400.7
72.5°	262.8	256.3	251.4	254.3	258.4	267.1	281.0	298.5	318.8	341.5	362.1
75°	201.8	201.8	198.9	201.1	207.3	215.7	226.2	244.4	264.6	282.8	299.5
77.5°	149.7	148.1	150.0	152.5	156.1	166.0	178.0	191.0	206.2	224.4	238.2
80°	114.5	115.2	118.7	122.9	124.3	132.0	144.5	156.4	168.2	183.6	196.8
82.5°	86.0	86.7	88.6	93.8	95.2	103.5	111.6	123.4	134.2	144.5	155.5
85°	46.8	46.8	50.3	52.3	55.8	61.4	66.3	73.3	83.1	90.1	100.5
87.5°	18.8	18.9	21.3	22.5	24.3	27.3	28.5	34.7	37.1	39.9	45.0
90°	4.5	5.4	6.0	6.6	7.2	7.9	8.3	8.8	9.3	9.8	10.1
92.5°	4.6	5.0	5.7	6.3	7.0	7.6	8.1	8.5	9.0	9.5	9.7
95°	8.9	7.6	7.6	7.7	7.8	7.9	8.3	8.8	9.3	9.8	10.0
97.5°	48.4	44.8	36.0	27.2	18.3	9.4	9.5	9.5	9.6	9.6	9.7
100°	64.2	59.5	48.6	37.6	26.7	15.8	14.3	13.0	11.6	10.3	9.7
102.5°	81.6	81.4	80.0	78.6	77.1	75.6	61.1	46.6	32.0	17.5	10.2
105°	109.4	109.8	110.2	110.6	111.0	111.4	112.1	112.8	113.5	114.2	113.1
107.5°	136.3	136.6	137.2	137.7	138.3	138.9	139.2	139.6	139.9	140.3	140.6
110°	155.1	155.5	155.9	156.4	156.9	157.4	157.5	157.7	157.8	158.0	158.2



TEST NUMBER: P332625-840

CATALOG NUMBER: S124DIP-S1020D365U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	174.2	174.5	174.7	174.9	175.1	175.4	175.3	175.3	175.3	175.2	175.4
115°	201.6	201.6	201.6	201.5	201.4	201.3	201.5	201.6	201.8	202.0	202.0
117.5°	227.2	227.4	227.6	227.8	227.9	228.1	228.1	228.0	228.0	228.0	227.9
120°	244.3	244.4	244.4	244.3	244.2	244.1	244.3	244.4	244.6	244.8	244.8
122.5°	259.8	259.9	260.0	260.1	260.2	260.4	260.4	260.5	260.6	260.7	260.7
125°	283.3	283.3	283.2	283.0	282.9	282.7	282.9	283.2	283.4	283.6	283.8
127.5°	304.0	304.2	304.6	304.9	305.3	305.7	305.6	305.6	305.5	305.5	305.4
130°	318.0	318.1	318.3	318.6	318.8	319.1	319.1	319.2	319.3	319.4	319.4
132.5°	331.0	331.2	331.5	331.8	332.1	332.4	332.5	332.6	332.8	332.9	332.9
135°	349.4	349.5	349.9	350.2	350.5	350.8	351.0	351.1	351.3	351.4	351.6
137.5°	367.0	367.2	367.5	367.8	368.2	368.5	368.7	368.9	369.1	369.2	369.3
140°	378.6	378.7	378.9	379.1	379.2	379.4	379.6	379.8	380.1	380.3	380.5
142.5°	389.1	389.3	389.4	389.5	389.6	389.7	389.8	390.0	390.2	390.3	390.4
145°	404.2	404.3	404.3	404.3	404.3	404.3	404.5	404.6	404.7	404.7	404.8
147.5°	417.3	417.5	417.4	417.3	417.2	417.2	417.2	417.3	417.4	417.4	417.5
150°	425.7	425.8	425.7	425.6	425.5	425.5	425.5	425.5	425.5	425.5	425.5
152.5°	432.8	432.8	432.7	432.5	432.4	432.3	432.4	432.5	432.6	432.8	432.8
155°	442.5	442.4	442.2	441.9	441.7	441.5	441.8	442.1	442.4	442.7	442.8
157.5°	450.8	450.6	450.4	450.1	449.8	449.6	450.0	450.4	450.8	451.2	451.2
160°	455.1	455.0	454.9	454.8	454.7	454.6	455.1	455.7	456.2	456.6	456.6
162.5°	459.5	459.3	459.2	459.1	459.1	459.0	459.5	459.9	460.4	460.9	460.8
165°	464.8	464.6	464.6	464.6	464.6	464.6	465.3	466.0	466.6	467.3	467.2
167.5°	469.4	469.2	469.1	469.1	469.0	469.0	469.7	470.4	471.1	471.7	471.7
170°	471.7	471.5	471.6	471.7	471.7	471.8	472.4	473.1	473.7	474.3	474.2
172.5°	473.4	473.2	473.3	473.4	473.4	473.5	474.1	474.8	475.4	476.1	475.9
175°	475.2	475.0	475.1	475.2	475.3	475.3	476.2	476.9	477.6	478.3	478.2
177.5°	476.3	476.1	476.3	476.4	476.5	476.6	477.2	477.7	478.2	478.7	478.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P332625-840

CATALOG NUMBER: S124DIP-S1020D365U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1606.0	1604.9	1600.9	1600.4	1600.9	1604.9	1606.0	1607.1	1608.7	1614.4	1607.6
5°	1483.5	1480.1	1477.9	1485.6	1477.9	1480.1	1483.5	1487.7	1494.7	1495.4	1502.4
7.5°	1391.2	1388.5	1382.3	1380.4	1382.3	1388.5	1391.2	1393.7	1400.7	1406.7	1417.0
10°	1332.0	1329.2	1323.6	1322.2	1323.6	1329.2	1332.0	1339.0	1345.9	1353.6	1360.7
12.5°	1275.1	1269.5	1268.4	1269.7	1268.4	1269.5	1275.1	1284.2	1302.4	1302.3	1303.6
15°	1199.4	1196.6	1188.9	1191.0	1188.9	1196.6	1199.4	1208.5	1216.8	1227.3	1237.8
17.5°	1124.8	1121.5	1112.2	1120.3	1112.2	1121.5	1124.8	1129.7	1140.4	1155.3	1171.0
20°	1077.9	1072.3	1067.4	1066.7	1067.4	1072.3	1077.9	1082.8	1094.7	1107.2	1119.1
22.5°	1033.2	1028.2	1027.7	1023.2	1027.7	1028.2	1033.2	1040.9	1052.8	1059.8	1071.1
25°	977.3	972.5	971.1	967.7	971.1	972.5	977.3	983.0	990.7	996.2	1008.8
27.5°	934.5	932.1	929.6	930.7	929.6	932.1	934.5	935.2	938.7	946.1	953.3
30°	908.3	907.6	906.2	906.2	906.2	907.6	908.3	906.2	909.7	913.1	918.8
32.5°	886.5	886.4	887.2	887.2	887.2	886.4	886.5	883.2	884.5	885.8	888.6
35°	855.9	858.0	859.4	857.3	859.4	858.0	855.9	853.1	851.0	846.2	847.5
37.5°	828.3	830.3	832.3	834.7	832.3	830.3	828.3	822.5	817.5	813.1	808.2
40°	807.0	811.9	813.3	816.8	813.3	811.9	807.0	800.7	795.2	790.3	784.7
42.5°	786.9	792.3	796.0	796.7	796.0	792.3	786.9	780.6	772.2	766.3	758.4
45°	756.1	761.6	766.6	766.6	766.6	761.6	756.1	745.6	736.5	727.4	719.7
47.5°	724.1	732.2	737.1	738.3	737.1	732.2	724.1	713.4	700.6	689.4	678.4
50°	702.4	712.1	717.0	720.4	717.0	712.1	702.4	690.4	677.2	663.2	649.9
52.5°	681.1	690.8	697.4	699.2	697.4	690.8	681.1	666.4	650.4	635.3	623.7
55°	644.4	658.3	666.0	668.8	666.0	658.3	644.4	628.3	613.0	594.1	577.3
57.5°	609.8	622.6	631.6	633.6	631.6	622.6	609.8	590.9	571.1	551.0	533.1
60°	582.9	596.9	608.0	610.2	608.0	596.9	582.9	564.1	543.1	523.6	501.3
62.5°	555.5	570.1	580.2	585.6	580.2	570.1	555.5	535.6	513.0	491.2	468.9
65°	508.3	522.9	532.7	534.7	532.7	522.9	508.3	488.7	464.9	441.9	423.0
67.5°	456.6	471.2	477.7	481.7	477.7	471.2	456.6	438.2	414.7	390.8	369.4
70°	420.3	432.1	439.1	442.6	439.1	432.1	420.3	400.7	381.2	356.8	333.7
72.5°	378.9	391.3	399.5	400.2	399.5	391.3	378.9	362.1	341.5	318.8	298.5
75°	315.6	326.7	330.9	330.9	330.9	326.7	315.6	299.5	282.8	264.6	244.4
77.5°	249.7	255.5	260.8	262.0	260.8	255.5	249.7	238.2	224.4	206.2	191.0
80°	207.3	210.9	215.0	215.0	215.0	210.9	207.3	196.8	183.6	168.2	156.4
82.5°	163.8	166.7	170.9	170.4	170.9	166.7	163.8	155.5	144.5	134.2	123.4
85°	99.2	105.4	104.7	103.3	104.7	105.4	99.2	100.5	90.1	83.1	73.3
87.5°	46.8	47.4	49.0	50.2	49.0	47.4	46.8	45.0	39.9	37.1	34.7
90°	10.2	10.4	10.5	10.7	10.5	10.4	10.2	10.1	9.8	9.3	8.8
92.5°	9.8	9.8	9.8	9.9	9.8	9.8	9.8	9.7	9.5	9.0	8.5
95°	10.1	10.2	10.3	10.3	10.3	10.2	10.1	10.0	9.8	9.3	8.8
97.5°	9.8	9.8	9.9	10.0	9.9	9.8	9.8	9.7	9.6	9.6	9.5
100°	9.8	9.8	9.9	10.0	9.9	9.8	9.8	9.7	10.3	11.6	13.0
102.5°	10.2	10.2	10.3	10.3	10.3	10.2	10.2	10.2	17.5	32.0	46.6
105°	110.3	107.4	104.5	101.7	104.5	107.4	110.3	113.1	114.2	113.5	112.8
107.5°	140.9	141.2	141.5	141.8	141.5	141.2	140.9	140.6	140.3	139.9	139.6
110°	158.4	158.8	159.0	159.2	159.0	158.8	158.4	158.2	158.0	157.8	157.7



TEST NUMBER: P332625-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	175.7	176.0	176.3	176.6	176.3	176.0	175.7	175.4	175.2	175.3	175.3
115°	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	201.8	201.6
117.5°	227.9	227.9	227.9	227.8	227.9	227.9	227.9	227.9	228.0	228.0	228.0
120°	244.6	244.4	244.3	244.1	244.3	244.4	244.6	244.8	244.8	244.6	244.4
122.5°	260.5	260.4	260.2	260.1	260.2	260.4	260.5	260.7	260.7	260.6	260.5
125°	283.9	284.0	284.0	284.1	284.0	284.0	283.9	283.8	283.6	283.4	283.2
127.5°	305.4	305.3	305.2	305.2	305.2	305.3	305.4	305.4	305.5	305.5	305.6
130°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.3	319.2
132.5°	332.8	332.6	332.6	332.5	332.6	332.6	332.8	332.9	332.9	332.8	332.6
135°	351.7	351.9	352.1	352.2	352.1	351.9	351.7	351.6	351.4	351.3	351.1
137.5°	369.2	369.2	369.1	369.1	369.1	369.2	369.2	369.3	369.2	369.1	368.9
140°	380.6	380.6	380.7	380.8	380.7	380.6	380.6	380.5	380.3	380.1	379.8
142.5°	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.4	390.3	390.2	390.0
145°	405.0	405.2	405.3	405.5	405.3	405.2	405.0	404.8	404.7	404.7	404.6
147.5°	417.6	417.6	417.7	417.8	417.7	417.6	417.6	417.5	417.4	417.4	417.3
150°	425.6	425.7	425.7	425.8	425.7	425.7	425.6	425.5	425.5	425.5	425.5
152.5°	432.7	432.7	432.7	432.6	432.7	432.7	432.7	432.8	432.8	432.6	432.5
155°	442.5	442.3	442.1	441.8	442.1	442.3	442.5	442.8	442.7	442.4	442.1
157.5°	450.8	450.4	450.0	449.6	450.0	450.4	450.8	451.2	451.2	450.8	450.4
160°	456.2	455.7	455.1	454.6	455.1	455.7	456.2	456.6	456.6	456.2	455.7
162.5°	460.3	459.8	459.2	458.7	459.2	459.8	460.3	460.8	460.9	460.4	459.9
165°	466.5	465.7	465.0	464.3	465.0	465.7	466.5	467.2	467.3	466.6	466.0
167.5°	470.9	470.1	469.3	468.6	469.3	470.1	470.9	471.7	471.7	471.1	470.4
170°	473.5	472.7	471.9	471.1	471.9	472.7	473.5	474.2	474.3	473.7	473.1
172.5°	475.1	474.2	473.4	472.5	473.4	474.2	475.1	475.9	476.1	475.4	474.8
175°	477.2	476.3	475.2	474.3	475.2	476.3	477.2	478.2	478.3	477.6	476.9
177.5°	477.8	477.0	476.3	475.4	476.3	477.0	477.8	478.5	478.7	478.2	477.7
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P332625-840

CATALOG NUMBER: S124DIP-S1020D365U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1611.0	1613.3	1622.1	1630.5	1640.6	1647.9	1652.8	1658.5	1670.2	1679.7	1688.6
5°	1509.3	1512.9	1531.0	1543.6	1565.2	1584.1	1598.7	1614.8	1633.7	1659.4	1683.1
7.5°	1419.9	1432.8	1452.7	1473.1	1495.1	1519.8	1541.4	1565.5	1598.0	1633.5	1670.0
10°	1369.1	1383.7	1404.6	1428.4	1449.4	1477.9	1504.5	1533.1	1570.0	1613.4	1656.7
12.5°	1318.2	1342.3	1358.3	1386.4	1409.1	1432.7	1460.9	1498.4	1541.6	1587.1	1639.3
15°	1254.6	1267.8	1298.5	1313.8	1345.9	1382.3	1410.2	1447.9	1489.8	1549.8	1608.5
17.5°	1181.1	1198.5	1222.9	1252.3	1289.2	1317.5	1352.3	1391.1	1443.9	1503.5	1576.9
20°	1133.1	1147.7	1177.7	1209.8	1248.9	1279.0	1316.0	1353.6	1408.2	1471.7	1548.4
22.5°	1090.0	1104.2	1135.9	1165.7	1203.7	1240.4	1279.1	1322.9	1375.1	1442.1	1520.6
25°	1023.5	1042.3	1070.3	1101.0	1137.2	1179.1	1221.0	1260.1	1316.0	1386.4	1470.3
27.5°	964.4	979.5	999.8	1034.6	1075.8	1116.3	1157.9	1207.1	1260.7	1335.2	1422.2
30°	926.5	940.4	960.6	992.7	1031.2	1074.4	1117.7	1165.2	1221.0	1295.1	1383.7
32.5°	896.3	906.9	924.8	953.6	988.7	1034.2	1076.9	1126.1	1184.7	1257.6	1344.0
35°	851.7	860.8	867.8	895.0	926.5	968.3	1011.6	1064.0	1120.4	1189.6	1276.2
37.5°	808.0	811.1	821.3	839.1	869.6	908.2	948.4	999.9	1057.8	1128.0	1206.1
40°	781.2	782.6	788.9	805.7	832.1	868.5	907.6	958.6	1013.7	1080.1	1157.5
42.5°	755.0	754.1	759.8	771.5	796.4	829.4	867.9	914.4	969.6	1030.9	1103.9
45°	713.5	713.5	712.1	721.9	742.1	774.3	806.4	851.0	897.1	957.2	1018.5
47.5°	670.2	666.3	667.5	672.6	689.6	716.0	748.4	785.0	825.6	876.5	930.3
50°	642.3	636.7	634.6	640.2	655.5	678.5	709.3	741.4	779.8	824.5	870.6
52.5°	611.6	606.0	602.2	606.1	620.4	641.7	669.6	697.8	732.4	768.6	808.6
55°	564.1	557.8	555.7	557.1	567.5	584.3	608.0	633.9	659.7	689.7	717.7
57.5°	517.4	507.0	505.0	504.3	511.6	526.9	546.7	569.2	587.9	606.1	635.8
60°	486.6	474.0	469.8	469.2	474.7	487.3	505.4	527.8	541.1	553.6	579.5
62.5°	453.6	441.6	432.4	433.4	438.4	450.4	466.4	482.5	491.3	505.0	522.5
65°	402.8	387.5	380.5	378.4	381.2	390.9	403.5	413.9	423.7	429.4	446.1
67.5°	352.0	339.1	328.8	326.3	325.1	331.7	342.0	348.4	355.4	360.2	370.1
70°	316.3	305.1	292.6	288.3	287.6	293.2	303.0	303.7	313.5	315.6	326.0
72.5°	281.0	267.1	258.4	254.3	251.4	256.3	262.8	264.6	269.9	273.7	279.1
75°	226.2	215.7	207.3	201.1	198.9	201.8	201.8	205.2	208.7	210.9	217.1
77.5°	178.0	166.0	156.1	152.5	150.0	148.1	149.7	151.8	150.1	153.7	155.1
80°	144.5	132.0	124.3	122.9	118.7	115.2	114.5	116.5	113.8	115.2	119.4
82.5°	111.6	103.5	95.2	93.8	88.6	86.7	86.0	84.7	84.7	84.4	85.3
85°	66.3	61.4	55.8	52.3	50.3	46.8	46.8	45.3	44.0	42.6	43.3
87.5°	28.5	27.3	24.3	22.5	21.3	18.9	18.8	17.0	16.2	15.5	14.7
90°	8.3	7.9	7.2	6.6	6.0	5.4	4.5	3.7	2.8	1.9	1.1
92.5°	8.1	7.6	7.0	6.3	5.7	5.0	4.6	4.6	4.5	4.5	4.5
95°	8.3	7.9	7.8	7.7	7.6	7.6	8.9	11.5	14.2	17.0	19.6
97.5°	9.5	9.4	18.3	27.2	36.0	44.8	48.4	46.8	45.0	43.3	41.7
100°	14.3	15.8	26.7	37.6	48.6	59.5	64.2	62.8	61.4	60.0	58.6
102.5°	61.1	75.6	77.1	78.6	80.0	81.4	81.6	80.5	79.5	78.5	77.4
105°	112.1	111.4	111.0	110.6	110.2	109.8	109.4	108.9	108.4	107.9	107.4
107.5°	139.2	138.9	138.3	137.7	137.2	136.6	136.3	136.0	135.8	135.5	135.3
110°	157.5	157.4	156.9	156.4	155.9	155.5	155.1	154.9	154.6	154.4	154.2



TEST NUMBER: P332625-840

CATALOG NUMBER: S124DIP-S1020D365U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	175.3	175.4	175.1	174.9	174.7	174.5	174.2	173.7	173.3	172.9	172.5
115°	201.5	201.3	201.4	201.5	201.6	201.6	201.6	201.3	201.1	200.9	200.6
117.5°	228.1	228.1	227.9	227.8	227.6	227.4	227.2	226.9	226.5	226.2	225.9
120°	244.3	244.1	244.2	244.3	244.4	244.4	244.3	244.0	243.7	243.4	243.1
122.5°	260.4	260.4	260.2	260.1	260.0	259.9	259.8	259.6	259.4	259.2	259.0
125°	282.9	282.7	282.9	283.0	283.2	283.3	283.3	282.9	282.6	282.3	282.0
127.5°	305.6	305.7	305.3	304.9	304.6	304.2	304.0	303.9	303.8	303.8	303.7
130°	319.1	319.1	318.8	318.6	318.3	318.1	318.0	317.9	317.8	317.7	317.6
132.5°	332.5	332.4	332.1	331.8	331.5	331.2	331.0	330.9	330.7	330.6	330.5
135°	351.0	350.8	350.5	350.2	349.9	349.5	349.4	349.5	349.6	349.7	349.7
137.5°	368.7	368.5	368.2	367.8	367.5	367.2	367.0	366.9	366.9	366.9	366.8
140°	379.6	379.4	379.2	379.1	378.9	378.7	378.6	378.4	378.3	378.1	378.0
142.5°	389.8	389.7	389.6	389.5	389.4	389.3	389.1	388.8	388.5	388.2	388.0
145°	404.5	404.3	404.3	404.3	404.3	404.3	404.2	404.0	403.7	403.5	403.3
147.5°	417.2	417.2	417.2	417.3	417.4	417.5	417.3	416.9	416.4	416.0	415.5
150°	425.5	425.5	425.5	425.6	425.7	425.8	425.7	425.4	425.0	424.6	424.3
152.5°	432.4	432.3	432.4	432.5	432.7	432.8	432.8	432.5	432.3	432.0	431.8
155°	441.8	441.5	441.7	441.9	442.2	442.4	442.5	442.4	442.3	442.3	442.2
157.5°	450.0	449.6	449.8	450.1	450.4	450.6	450.8	450.8	450.9	450.9	451.0
160°	455.1	454.6	454.7	454.8	454.9	455.0	455.1	455.4	455.7	455.9	456.2
162.5°	459.5	459.0	459.1	459.1	459.2	459.3	459.5	459.8	460.1	460.4	460.7
165°	465.3	464.6	464.6	464.6	464.6	464.6	464.8	465.2	465.6	466.1	466.5
167.5°	469.7	469.0	469.0	469.1	469.1	469.2	469.4	469.8	470.2	470.6	471.0
170°	472.4	471.8	471.7	471.7	471.6	471.5	471.7	472.2	472.6	473.1	473.6
172.5°	474.1	473.5	473.4	473.4	473.3	473.2	473.4	473.9	474.3	474.8	475.3
175°	476.2	475.3	475.3	475.2	475.1	475.0	475.2	475.7	476.3	476.7	477.2
177.5°	477.2	476.6	476.5	476.4	476.3	476.1	476.3	476.7	477.2	477.6	478.1
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P332625-840

CATALOG NUMBER: S124DIP-S1020D365U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1696.5	1702.0	1709.3	1721.6	1726.1	1731.6	1739.5	1738.9	1741.1	1749.5	1767.4
5°	1702.7	1724.3	1745.3	1770.5	1797.0	1814.4	1838.2	1852.8	1867.4	1886.3	1918.4
7.5°	1705.3	1739.6	1778.0	1822.1	1861.4	1906.6	1941.9	1975.1	2005.2	2045.0	2083.3
10°	1701.3	1747.4	1797.0	1852.8	1912.2	1962.5	2007.8	2059.5	2103.4	2151.6	2194.9
12.5°	1694.0	1749.7	1815.9	1878.6	1947.9	2022.2	2078.7	2130.9	2189.5	2244.9	2311.7
15°	1677.6	1753.7	1831.2	1913.6	2006.4	2092.2	2173.9	2241.7	2304.5	2387.6	2474.9
17.5°	1656.7	1738.8	1836.4	1936.2	2033.3	2131.4	2232.5	2334.3	2413.6	2516.8	2585.1
20°	1637.1	1732.0	1832.6	1951.3	2048.3	2170.5	2271.0	2369.4	2478.3	2581.0	2662.6
22.5°	1609.7	1713.6	1820.3	1938.4	2066.2	2188.4	2304.5	2411.4	2520.2	2631.8	2730.8
25°	1575.0	1669.2	1795.5	1929.7	2056.7	2189.3	2322.7	2456.7	2573.9	2692.0	2784.1
27.5°	1515.8	1634.8	1752.4	1890.8	2031.9	2182.0	2324.6	2465.0	2587.8	2684.8	2742.0
30°	1485.6	1588.9	1716.7	1855.6	2008.5	2169.8	2318.4	2456.0	2570.5	2648.0	2671.0
32.5°	1441.0	1547.6	1672.5	1816.5	1978.3	2144.0	2299.0	2428.6	2524.2	2564.8	2537.0
35°	1374.6	1471.0	1597.3	1744.6	1912.9	2089.5	2242.4	2352.0	2400.9	2362.5	2266.8
37.5°	1295.1	1390.5	1517.4	1662.1	1836.2	2015.8	2154.0	2232.9	2216.7	2121.2	1978.6
40°	1239.2	1328.6	1449.4	1605.7	1775.3	1955.4	2076.9	2119.5	2074.9	1938.0	1786.6
42.5°	1177.2	1264.4	1385.6	1536.4	1716.2	1882.3	1988.1	1991.7	1916.7	1753.1	1601.0
45°	1082.8	1165.9	1280.4	1437.4	1603.6	1760.0	1829.8	1795.5	1657.4	1499.5	1346.7
47.5°	989.7	1061.7	1174.6	1323.6	1481.5	1613.1	1647.7	1586.1	1438.9	1285.7	1144.0
50°	921.5	994.1	1100.2	1242.6	1394.8	1508.6	1525.4	1443.7	1299.2	1144.9	1033.9
52.5°	856.2	928.3	1030.5	1162.3	1301.6	1404.2	1404.7	1310.2	1166.3	1028.7	925.5
55°	760.2	825.2	917.4	1035.3	1159.6	1239.9	1220.3	1122.6	997.6	878.3	788.2
57.5°	667.8	724.4	809.3	907.7	1017.1	1083.4	1051.0	956.8	845.3	744.1	675.8
60°	608.0	661.9	734.5	827.3	919.5	971.1	940.4	855.2	752.6	670.9	611.6
62.5°	550.0	595.3	665.2	745.8	831.2	869.5	842.1	758.0	669.3	595.5	547.3
65°	467.8	504.7	560.6	629.8	691.9	724.7	701.7	623.4	555.7	502.6	464.2
67.5°	390.9	419.9	462.1	517.6	570.4	588.1	567.1	512.7	455.3	412.8	385.8
70°	337.9	365.2	400.7	443.3	489.4	508.3	487.3	444.0	397.3	358.1	331.6
72.5°	291.5	312.7	342.6	379.1	415.2	433.9	419.7	378.1	338.6	309.5	286.9
75°	222.0	240.1	261.1	286.9	314.9	327.4	314.9	286.2	259.0	237.3	221.3
77.5°	161.4	171.2	187.3	206.6	224.1	233.7	222.9	203.4	186.8	172.0	164.1
80°	122.9	129.9	141.0	156.4	168.2	177.3	170.4	154.3	141.0	131.3	127.7
82.5°	89.4	94.1	101.4	112.8	120.8	125.4	122.3	110.7	105.2	96.6	93.1
85°	44.0	46.8	51.7	55.1	62.1	62.8	63.5	58.7	53.7	51.7	48.9
87.5°	15.5	16.2	18.1	19.9	22.3	22.9	22.5	22.6	20.6	20.1	18.0
90°	1.9	2.8	3.7	4.5	5.4	6.0	6.6	7.2	7.9	8.3	8.8
92.5°	4.5	4.5	4.6	4.6	5.0	5.7	6.3	7.0	7.6	8.1	8.5
95°	17.0	14.2	11.5	8.9	7.6	7.6	7.7	7.8	7.9	8.3	8.8
97.5°	43.3	45.0	46.8	48.4	44.8	36.0	27.2	18.3	9.4	9.5	9.5
100°	60.0	61.4	62.8	64.2	59.5	48.6	37.6	26.7	15.8	14.3	13.0
102.5°	78.5	79.5	80.5	81.6	81.4	80.0	78.6	77.1	75.6	61.1	46.6
105°	107.9	108.4	108.9	109.4	109.8	110.2	110.6	111.0	111.4	112.1	112.8
107.5°	135.5	135.8	136.0	136.3	136.6	137.2	137.7	138.3	138.9	139.2	139.6
110°	154.4	154.6	154.9	155.1	155.5	155.9	156.4	156.9	157.4	157.5	157.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	172.9	173.3	173.7	174.2	174.5	174.7	174.9	175.1	175.4	175.3	175.3
115°	200.9	201.1	201.3	201.6	201.6	201.6	201.5	201.4	201.3	201.5	201.6
117.5°	226.2	226.5	226.9	227.2	227.4	227.6	227.8	227.9	228.1	228.1	228.0
120°	243.4	243.7	244.0	244.3	244.4	244.4	244.3	244.2	244.1	244.3	244.4
122.5°	259.2	259.4	259.6	259.8	259.9	260.0	260.1	260.2	260.4	260.4	260.5
125°	282.3	282.6	282.9	283.3	283.3	283.2	283.0	282.9	282.7	282.9	283.2
127.5°	303.8	303.8	303.9	304.0	304.2	304.6	304.9	305.3	305.7	305.6	305.6
130°	317.7	317.8	317.9	318.0	318.1	318.3	318.6	318.8	319.1	319.1	319.2
132.5°	330.6	330.7	330.9	331.0	331.2	331.5	331.8	332.1	332.4	332.5	332.6
135°	349.7	349.6	349.5	349.4	349.5	349.9	350.2	350.5	350.8	351.0	351.1
137.5°	366.9	366.9	366.9	367.0	367.2	367.5	367.8	368.2	368.5	368.7	368.9
140°	378.1	378.3	378.4	378.6	378.7	378.9	379.1	379.2	379.4	379.6	379.8
142.5°	388.2	388.5	388.8	389.1	389.3	389.4	389.5	389.6	389.7	389.8	390.0
145°	403.5	403.7	404.0	404.2	404.3	404.3	404.3	404.3	404.3	404.5	404.6
147.5°	416.0	416.4	416.9	417.3	417.5	417.4	417.3	417.2	417.2	417.2	417.3
150°	424.6	425.0	425.4	425.7	425.8	425.7	425.6	425.5	425.5	425.5	425.5
152.5°	432.0	432.3	432.5	432.8	432.8	432.7	432.5	432.4	432.3	432.4	432.5
155°	442.3	442.3	442.4	442.5	442.4	442.2	441.9	441.7	441.5	441.8	442.1
157.5°	450.9	450.9	450.8	450.8	450.6	450.4	450.1	449.8	449.6	450.0	450.4
160°	455.9	455.7	455.4	455.1	455.0	454.9	454.8	454.7	454.6	455.1	455.7
162.5°	460.4	460.1	459.8	459.5	459.3	459.2	459.1	459.1	459.0	459.5	459.9
165°	466.1	465.6	465.2	464.8	464.6	464.6	464.6	464.6	464.6	465.3	466.0
167.5°	470.6	470.2	469.8	469.4	469.2	469.1	469.1	469.0	469.0	469.7	470.4
170°	473.1	472.6	472.2	471.7	471.5	471.6	471.7	471.7	471.8	472.4	473.1
172.5°	474.8	474.3	473.9	473.4	473.2	473.3	473.4	473.4	473.5	474.1	474.8
175°	476.7	476.3	475.7	475.2	475.0	475.1	475.2	475.3	475.3	476.2	476.9
177.5°	477.6	477.2	476.7	476.3	476.1	476.3	476.4	476.5	476.6	477.2	477.7
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1776.4	1777.5	1782.4	1786.4	1787.5	1793.1	1793.6
5°	1932.4	1944.3	1967.3	1969.4	1972.9	1991.0	1977.1
7.5°	2115.4	2145.5	2165.6	2183.3	2189.8	2197.7	2196.1
10°	2232.6	2277.2	2299.7	2335.2	2336.6	2345.7	2340.2
12.5°	2350.5	2402.4	2443.2	2449.7	2479.6	2484.2	2492.0
15°	2517.4	2572.6	2629.2	2649.4	2690.6	2700.4	2715.7
17.5°	2674.4	2730.8	2770.5	2822.8	2839.7	2862.4	2846.9
20°	2760.4	2821.9	2872.1	2913.3	2930.7	2943.3	2941.9
22.5°	2812.4	2874.3	2915.1	2946.2	2962.5	2967.9	2967.6
25°	2844.9	2880.4	2893.1	2904.9	2886.8	2880.4	2883.3
27.5°	2754.4	2745.2	2712.4	2669.4	2624.6	2589.2	2569.9
30°	2629.9	2575.4	2525.8	2439.2	2394.6	2368.0	2344.3
32.5°	2453.4	2367.0	2271.7	2192.4	2141.6	2102.2	2096.4
35°	2150.9	2021.0	1904.5	1807.5	1757.2	1714.5	1704.9
37.5°	1828.7	1693.7	1588.8	1503.4	1449.4	1419.3	1391.2
40°	1614.8	1498.8	1395.5	1322.9	1281.7	1260.1	1242.6
42.5°	1450.0	1344.1	1241.4	1186.1	1148.8	1135.6	1125.4
45°	1222.4	1124.0	1052.8	1010.9	989.3	966.9	956.4
47.5°	1040.2	960.1	913.1	877.6	854.3	841.1	834.4
50°	936.9	871.2	829.4	802.1	781.2	770.7	765.2
52.5°	845.3	791.4	756.2	734.6	720.3	712.7	710.4
55°	728.1	686.9	664.6	645.8	635.3	628.3	625.5
57.5°	632.9	601.3	583.1	567.5	563.5	557.6	555.7
60°	570.4	545.9	530.6	520.1	516.6	509.7	511.0
62.5°	515.0	495.1	482.0	475.9	471.4	465.5	467.5
65°	435.7	421.0	413.9	408.4	402.8	399.3	402.1
67.5°	365.6	355.5	346.0	342.7	340.0	339.4	336.5
70°	319.7	311.3	303.0	300.9	300.9	298.1	297.4
72.5°	275.6	269.4	263.9	262.4	260.1	261.3	258.3
75°	212.9	208.0	205.9	203.9	203.2	203.2	201.1
77.5°	157.3	153.7	150.4	150.4	147.8	146.9	146.6
80°	119.4	118.0	115.2	115.2	113.8	114.5	113.1
82.5°	89.8	87.9	87.3	86.1	84.2	84.3	82.9
85°	48.2	46.0	45.3	43.3	41.9	43.3	41.9
87.5°	18.6	18.2	17.7	16.6	16.1	16.1	14.4
90°	9.3	9.8	10.1	10.2	10.4	10.5	10.7
92.5°	9.0	9.5	9.7	9.8	9.8	9.8	9.9
95°	9.3	9.8	10.0	10.1	10.2	10.3	10.3
97.5°	9.6	9.6	9.7	9.8	9.8	9.9	10.0
100°	11.6	10.3	9.7	9.8	9.8	9.9	10.0
102.5°	32.0	17.5	10.2	10.2	10.2	10.3	10.3
105°	113.5	114.2	113.1	110.3	107.4	104.5	101.7
107.5°	139.9	140.3	140.6	140.9	141.2	141.5	141.8
110°	157.8	158.0	158.2	158.4	158.8	159.0	159.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	175.3	175.2	175.4	175.7	176.0	176.3	176.6
115°	201.8	202.0	202.0	202.0	202.0	202.0	202.0
117.5°	228.0	228.0	227.9	227.9	227.9	227.9	227.8
120°	244.6	244.8	244.8	244.6	244.4	244.3	244.1
122.5°	260.6	260.7	260.7	260.5	260.4	260.2	260.1
125°	283.4	283.6	283.8	283.9	284.0	284.0	284.1
127.5°	305.5	305.5	305.4	305.4	305.3	305.2	305.2
130°	319.3	319.4	319.4	319.4	319.4	319.4	319.4
132.5°	332.8	332.9	332.9	332.8	332.6	332.6	332.5
135°	351.3	351.4	351.6	351.7	351.9	352.1	352.2
137.5°	369.1	369.2	369.3	369.2	369.2	369.1	369.1
140°	380.1	380.3	380.5	380.6	380.6	380.7	380.8
142.5°	390.2	390.3	390.4	390.5	390.5	390.5	390.5
145°	404.7	404.7	404.8	405.0	405.2	405.3	405.5
147.5°	417.4	417.4	417.5	417.6	417.6	417.7	417.8
150°	425.5	425.5	425.5	425.6	425.7	425.7	425.8
152.5°	432.6	432.8	432.8	432.7	432.7	432.7	432.6
155°	442.4	442.7	442.8	442.5	442.3	442.1	441.8
157.5°	450.8	451.2	451.2	450.8	450.4	450.0	449.6
160°	456.2	456.6	456.6	456.2	455.7	455.1	454.6
162.5°	460.4	460.9	460.8	460.3	459.8	459.2	458.7
165°	466.6	467.3	467.2	466.5	465.7	465.0	464.3
167.5°	471.1	471.7	471.7	470.9	470.1	469.3	468.6
170°	473.7	474.3	474.2	473.5	472.7	471.9	471.1
172.5°	475.4	476.1	475.9	475.1	474.2	473.4	472.5
175°	477.6	478.3	478.2	477.2	476.3	475.2	474.3
177.5°	478.2	478.7	478.5	477.8	477.0	476.3	475.4
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2

(END OF REPORT)