

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: P332591-840

Luminaire Tested: **S124DIP-S795D590U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332591-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S795D590U840-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5711.3 lumens  
Efficiency: N/A  
Efficacy: 141.7 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

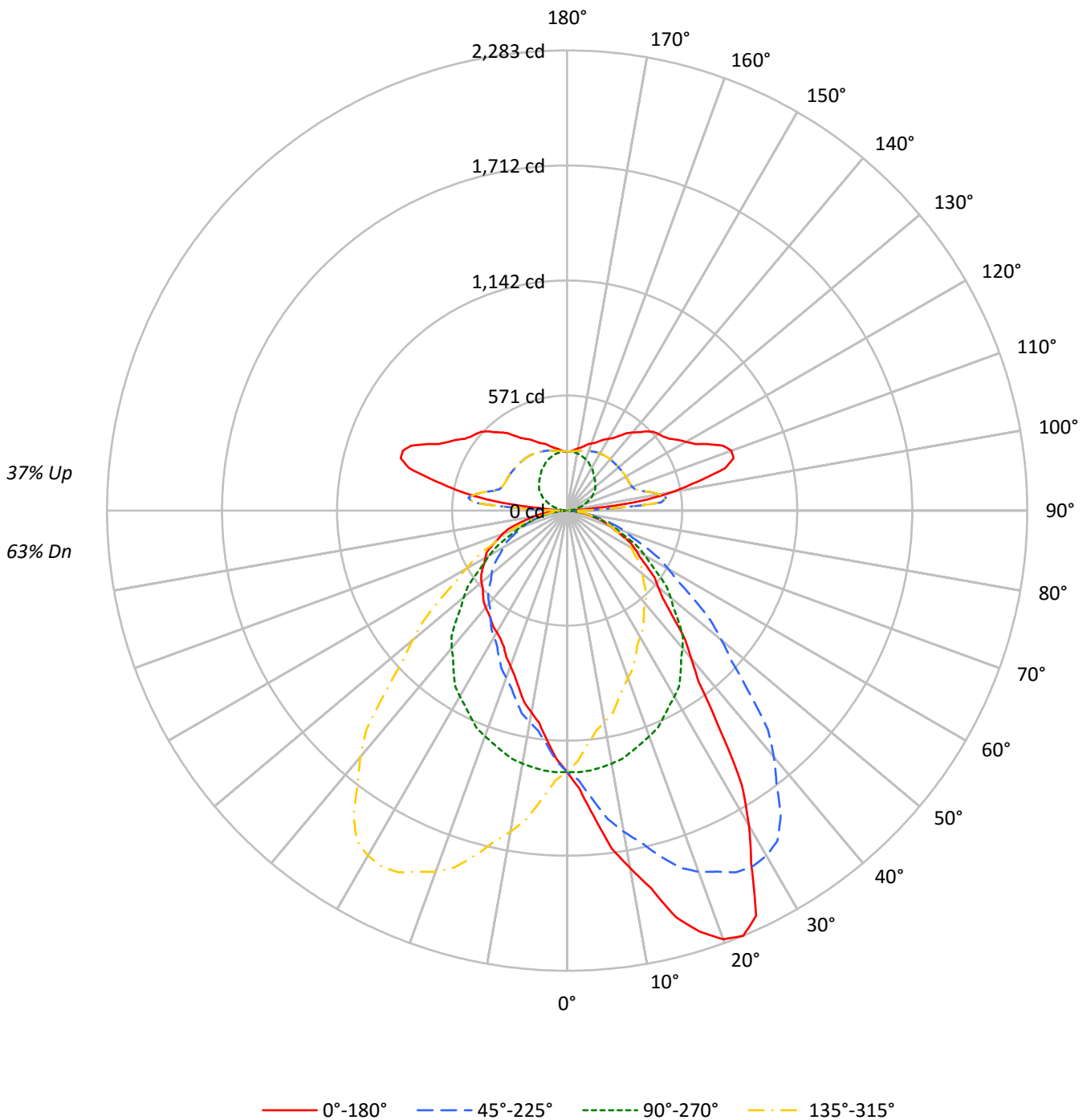
Input Watts (W): 40.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	91	87	84	80	77	75	70	68	66	60	59	58	53
2	92	85	79	73	86	80	74	70	70	66	62	61	58	56	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	55	51	47	48	45	42	39
4	77	66	58	52	72	63	55	50	55	50	45	49	44	41	43	39	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	25	31	26	23	27	23	21	19
10	49	37	30	25	46	35	29	24	32	26	22	28	24	20	25	22	19	17

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

	0°	90°	180°	270°
0°	10467	10467	10467	10467
5°	12327	10494	9263	10494
10°	14758	10449	8338	10449
15°	17462	10343	7658	10343
20°	19444	10234	7050	10234
25°	19759	10075	6631	10075
30°	16812	9923	6498	9923
35°	12925	9676	6500	9676
40°	10075	9385	6622	9385
45°	8401	8947	6734	8947
50°	7394	8411	6962	8411
55°	6773	7771	7241	7771
60°	6347	7198	7579	7198
65°	5908	6556	7859	6556
70°	5401	5922	8037	5922
75°	4825	5209	7941	5209
80°	4049	4268	7689	4268
85°	2983	3084	7364	3084



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.3	2.2
10°-20°	389.3	6.8
20°-30°	617.4	10.8
30°-40°	687.1	12.0
40°-50°	625.4	11.0
50°-60°	511.1	8.9
60°-70°	364.8	6.4
70°-80°	200.9	3.5
80°-90°	56.5	1.0
90°-100°	211.8	3.7
100°-110°	440.8	7.7
110°-120°	394.8	6.9
120°-130°	332.1	5.8
130°-140°	276.9	4.8
140°-150°	211.5	3.7
150°-160°	148.7	2.6
160°-170°	87.5	1.5
170°-180°	28.5	0.5
0°-30°	1133.0	19.8
0°-40°	1820.1	31.9
0°-60°	2956.5	51.8
0°-90°	3578.8	62.7
90°-120°	1047.4	18.3
90°-150°	1868.0	32.7
90°-180°	2133.0	37.3
0°-180°	5711.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1297	1297	1297	1297	1297	
5°	1521	1295	1143	1295	1521	155
15°	2089	1238	916	1238	2089	590
25°	2218	1131	744	1131	2218	978
35°	1312	982	660	982	1312	832
45°	736	784	590	784	736	580
55°	481	552	514	552	481	435
65°	309	343	411	343	309	306
75°	155	167	255	167	155	164
85°	32	33	80	33	32	40
90°	12	1	12	1	12	11
95°	141	19	141	19	141	218
105°	810	67	810	67	810	801
115°	778	119	778	119	778	773
125°	621	165	621	165	621	564
135°	555	196	555	196	555	429
145°	453	226	453	226	453	287
155°	380	258	380	258	380	177
165°	331	280	331	280	331	95
175°	298	293	298	293	298	29
180°	293	293	293	293	293	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1379.9	1379.5	1375.1	1374.3	1371.3	1367.5	1366.5	1359.7	1345.9	1339.5	1337.8
5°	1521.1	1531.8	1517.8	1515.1	1513.5	1495.8	1486.6	1475.9	1451.2	1436.7	1425.4
7.5°	1689.5	1690.7	1684.7	1679.7	1666.1	1650.5	1627.4	1602.7	1573.3	1542.6	1519.5
10°	1800.3	1804.6	1797.7	1796.5	1769.2	1752.0	1717.6	1688.6	1655.3	1618.2	1584.4
12.5°	1917.2	1911.2	1907.6	1884.6	1879.6	1848.3	1808.3	1778.4	1727.1	1684.5	1639.4
15°	2089.3	2077.5	2069.9	2038.2	2022.7	1979.1	1936.7	1904.0	1836.8	1772.9	1724.5
17.5°	2190.2	2202.0	2184.6	2171.6	2131.3	2100.8	2057.5	1988.7	1936.2	1856.8	1795.8
20°	2263.3	2264.3	2254.7	2241.3	2209.6	2170.9	2123.6	2048.4	1985.6	1906.6	1822.9
22.5°	2283.0	2283.3	2279.2	2266.6	2242.6	2211.3	2163.6	2100.8	2024.7	1938.8	1855.1
25°	2218.2	2216.0	2220.9	2234.8	2225.6	2216.0	2188.6	2141.9	2071.0	1980.2	1890.0
27.5°	1977.1	1992.0	2019.2	2053.6	2086.7	2111.9	2119.0	2109.4	2065.5	1990.8	1896.3
30°	1803.5	1821.8	1842.2	1876.5	1943.2	1981.4	2023.2	2054.9	2037.2	1977.5	1889.5
32.5°	1612.8	1617.3	1647.6	1686.7	1747.7	1821.1	1887.4	1951.8	1973.2	1941.9	1868.5
35°	1311.5	1319.1	1351.8	1390.5	1465.2	1554.9	1654.8	1743.9	1817.5	1847.0	1809.5
37.5°	1070.3	1091.9	1115.0	1156.6	1222.3	1303.0	1406.8	1522.2	1631.8	1705.4	1717.8
40°	956.0	969.5	986.1	1017.7	1073.6	1153.2	1242.2	1374.4	1491.0	1596.2	1630.6
42.5°	865.8	873.6	883.8	912.5	955.0	1034.1	1115.5	1231.7	1348.8	1474.6	1532.2
45°	735.8	743.9	761.0	777.7	809.9	864.7	940.4	1036.0	1153.7	1275.1	1381.4
47.5°	642.0	647.1	657.3	675.1	702.5	738.6	800.2	880.1	989.1	1106.9	1220.2
50°	588.7	592.9	601.0	617.1	638.0	670.2	720.7	795.5	880.8	999.6	1110.6
52.5°	546.5	548.3	554.2	565.1	581.8	608.8	650.3	712.1	791.4	897.3	1008.0
55°	481.2	483.4	488.8	496.9	511.3	528.5	560.2	606.3	675.7	767.5	863.6
57.5°	427.5	429.0	433.5	436.7	448.6	462.5	487.0	519.9	572.4	650.3	736.1
60°	393.1	392.0	397.5	400.1	408.2	420.0	438.8	470.5	516.1	579.0	657.9
62.5°	359.6	358.1	362.6	366.2	370.8	380.9	396.3	421.1	458.2	514.9	583.2
65°	309.3	307.2	309.9	314.2	318.5	323.9	335.2	357.2	386.7	427.5	479.6
67.5°	258.8	261.2	261.6	263.7	266.2	273.5	281.2	296.8	317.6	350.3	394.5
70°	228.8	229.3	231.5	231.5	233.1	239.5	246.0	255.1	275.5	305.6	341.5
72.5°	198.7	201.0	200.2	201.9	203.0	207.3	212.1	220.8	238.1	260.4	290.8
75°	154.7	156.3	156.3	156.8	158.4	160.1	163.8	170.3	182.6	199.2	220.3
77.5°	112.8	113.0	113.7	115.7	115.7	118.3	121.1	126.2	132.3	143.7	156.5
80°	87.1	88.1	87.6	88.7	88.7	90.8	91.8	98.3	101.0	108.5	118.7
82.5°	63.8	64.8	64.7	66.2	67.2	67.6	69.1	71.6	74.3	81.0	85.1
85°	32.2	33.3	32.2	33.3	34.9	35.4	37.1	37.6	39.8	41.4	45.1
87.5°	11.9	13.1	13.2	13.6	14.3	14.7	15.0	14.5	16.2	16.7	18.2
90°	12.1	12.1	12.6	12.1	11.5	11.5	10.9	10.4	9.8	10.4	9.2
92.5°	44.3	44.3	46.4	49.4	56.2	67.8	85.1	113.1	152.2	182.7	160.0
95°	140.6	148.0	158.4	176.3	204.5	260.3	337.6	426.9	482.7	469.5	354.3
97.5°	375.7	387.7	405.0	439.7	481.0	541.2	597.5	630.7	606.5	494.5	331.6
100°	528.3	532.9	550.2	585.3	635.4	678.0	706.3	694.8	610.7	463.1	300.7
102.5°	661.0	664.7	682.9	708.3	739.1	756.9	748.7	691.6	576.0	424.0	279.9
105°	810.5	814.0	822.0	826.7	825.6	801.9	744.9	645.2	513.3	377.9	262.2
107.5°	866.1	864.5	858.8	845.7	817.2	765.9	685.5	579.5	462.6	352.1	258.9
110°	867.0	861.8	851.4	827.3	786.4	723.0	639.4	539.8	437.3	343.4	259.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	839.8	831.4	816.9	787.6	741.1	677.8	598.8	510.8	422.9	339.2	262.6
115°	778.3	773.7	755.3	720.6	675.2	619.9	552.5	481.6	409.6	337.0	267.9
117.5°	716.0	712.4	693.7	664.7	625.8	579.0	525.9	467.3	403.6	336.4	273.5
120°	681.0	674.6	659.6	634.3	601.4	560.5	514.4	460.9	400.4	336.4	277.7
122.5°	653.3	646.9	634.3	612.6	584.8	549.0	507.1	455.3	396.7	336.0	281.9
125°	621.0	617.5	606.6	589.9	566.8	535.1	495.4	445.9	390.6	335.3	288.0
127.5°	602.1	598.6	589.5	574.6	551.4	521.4	481.7	434.3	382.4	334.0	293.0
130°	591.1	587.6	578.3	564.0	540.4	509.8	470.7	425.2	377.3	333.6	296.7
132.5°	578.7	575.1	566.4	550.2	526.9	496.4	458.2	415.5	372.7	333.1	299.9
135°	555.3	551.9	542.7	526.5	503.5	474.6	439.6	402.1	365.8	332.3	304.8
137.5°	526.5	522.4	514.8	498.9	477.4	451.3	421.7	390.0	359.8	332.2	307.6
140°	505.8	501.2	493.1	480.5	460.3	436.1	410.2	383.0	356.6	331.8	309.9
142.5°	483.6	480.5	473.3	461.5	443.7	422.7	400.5	376.7	353.9	331.8	311.7
145°	453.3	450.5	444.7	434.9	420.5	404.5	387.1	367.5	349.1	330.6	312.9
147.5°	426.6	425.5	421.1	412.7	402.1	389.4	375.6	360.0	344.9	328.6	313.4
150°	411.3	410.7	407.3	399.8	390.6	380.2	368.7	355.5	341.6	327.2	313.4
152.5°	397.5	396.9	394.9	388.7	380.9	372.3	361.7	350.3	337.9	324.9	312.5
155°	379.6	379.6	377.9	373.3	367.5	360.6	351.9	342.7	332.3	321.4	311.0
157.5°	364.0	364.0	362.9	359.5	355.1	349.5	342.3	334.6	326.8	317.9	309.6
160°	354.3	354.3	353.8	350.2	346.8	342.1	335.9	329.5	322.7	315.1	308.2
162.5°	345.1	345.6	345.0	341.5	339.0	334.8	329.8	324.5	318.9	312.4	306.8
165°	331.2	331.8	332.3	330.1	327.8	324.9	320.8	317.4	312.9	308.2	304.2
167.5°	320.3	320.7	320.8	319.4	318.2	316.5	313.3	310.6	307.3	304.1	301.4
170°	313.4	313.4	314.0	313.4	312.3	310.5	308.2	306.5	303.6	301.2	299.5
172.5°	306.5	307.4	308.0	307.4	306.7	305.5	304.1	302.8	300.3	298.5	297.7
175°	298.4	299.5	300.7	299.5	299.5	299.5	298.4	297.8	296.7	295.5	295.5
177.5°	293.7	294.6	295.5	295.1	295.5	295.1	295.1	294.6	294.2	293.7	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1338.2	1332.2	1327.9	1324.4	1315.0	1309.4	1305.1	1299.1	1292.2	1285.0	1275.9
5°	1414.1	1395.8	1382.5	1362.0	1342.7	1326.6	1310.0	1294.9	1276.7	1256.8	1242.2
7.5°	1494.0	1466.8	1432.0	1401.8	1367.9	1338.3	1311.9	1284.9	1256.7	1229.4	1204.4
10°	1544.7	1509.7	1471.1	1425.4	1382.5	1344.3	1308.9	1274.6	1241.2	1207.9	1179.4
12.5°	1599.2	1555.7	1498.5	1445.2	1397.0	1346.0	1303.3	1261.2	1221.0	1186.0	1152.8
15°	1672.4	1609.6	1543.6	1472.2	1408.8	1349.2	1290.6	1237.5	1192.3	1146.1	1113.9
17.5°	1717.5	1639.7	1564.2	1489.6	1412.9	1337.7	1274.6	1213.2	1156.7	1110.8	1070.2
20°	1747.2	1669.8	1575.8	1501.2	1409.9	1332.5	1259.5	1191.2	1132.2	1083.3	1041.4
22.5°	1772.9	1683.5	1589.5	1491.3	1400.4	1318.4	1238.4	1169.7	1109.4	1057.9	1017.7
25°	1786.9	1684.3	1582.3	1484.5	1381.4	1284.1	1211.6	1131.1	1066.6	1012.4	969.5
27.5°	1788.4	1678.7	1563.3	1454.6	1348.2	1257.7	1166.1	1094.2	1027.2	969.9	928.6
30°	1783.6	1669.3	1545.2	1427.5	1320.7	1222.4	1143.0	1064.5	996.3	939.4	896.4
32.5°	1768.6	1649.5	1522.0	1397.5	1286.8	1190.6	1108.5	1034.0	967.6	911.4	866.4
35°	1725.2	1607.5	1471.6	1342.2	1228.8	1131.7	1057.5	981.8	915.2	862.0	818.5
37.5°	1657.1	1550.7	1412.6	1278.7	1167.4	1069.8	996.3	927.9	867.8	813.7	769.2
40°	1597.8	1504.4	1365.8	1235.3	1115.0	1022.1	953.3	890.5	830.9	779.8	737.4
42.5°	1529.5	1448.0	1320.3	1182.0	1066.0	972.7	905.6	849.2	793.0	745.9	703.5
45°	1407.7	1354.0	1233.7	1105.9	985.0	897.0	833.0	783.7	736.4	690.1	654.7
47.5°	1267.6	1241.0	1139.7	1018.3	903.6	816.8	761.3	715.7	674.3	635.2	603.9
50°	1173.6	1160.6	1073.1	956.0	846.5	764.8	708.9	669.7	634.3	600.0	570.4
52.5°	1080.8	1080.3	1001.4	894.1	792.7	714.1	658.6	622.1	591.4	563.4	536.8
55°	938.9	953.8	892.1	796.5	705.7	634.8	584.9	552.1	530.7	507.6	487.7
57.5°	808.5	833.4	782.5	698.3	622.6	557.2	513.8	489.2	466.3	452.3	437.9
60°	723.5	747.1	707.3	636.4	565.0	509.2	467.8	445.8	425.9	416.3	406.1
62.5°	647.8	668.9	639.4	573.7	511.7	458.1	423.1	401.9	388.5	378.0	371.2
65°	539.8	557.4	532.3	484.4	431.3	388.3	359.8	343.2	330.3	326.0	318.5
67.5°	436.4	452.4	438.8	398.2	355.6	323.0	300.7	284.8	277.1	273.4	268.0
70°	374.9	391.0	376.5	341.0	308.3	280.9	259.9	250.9	242.8	241.2	233.6
72.5°	322.9	333.9	319.3	291.6	263.6	240.5	224.3	214.7	210.6	207.6	203.6
75°	242.3	251.9	242.3	220.8	200.9	184.8	170.8	167.0	162.2	160.6	157.9
77.5°	171.5	179.9	172.4	159.0	144.1	131.7	124.2	119.4	118.3	115.4	116.7
80°	131.1	136.4	129.5	120.3	108.5	99.9	94.5	91.8	88.7	87.6	89.7
82.5°	94.1	96.4	92.9	86.7	78.0	72.4	68.8	65.6	65.0	65.2	65.2
85°	48.9	48.4	47.8	42.4	39.8	36.0	33.8	33.3	32.7	33.8	34.9
87.5°	18.0	18.4	17.3	15.6	14.1	12.7	11.9	11.3	11.9	12.7	13.2
90°	8.1	8.1	4.6	4.6	4.0	3.4	1.7	0.6	1.7	3.4	4.0
92.5°	116.3	71.7	42.4	30.4	22.0	14.9	9.6	6.6	9.6	14.9	22.0
95°	216.6	122.1	72.0	47.8	34.0	26.5	20.7	19.0	20.7	26.5	34.0
97.5°	194.7	116.7	78.2	57.9	45.9	39.1	34.1	34.1	34.1	39.1	45.9
100°	183.2	118.1	84.1	65.6	54.7	47.8	43.8	43.8	43.8	47.8	54.7
102.5°	180.0	122.7	91.9	74.4	63.9	57.5	53.9	53.0	53.9	57.5	63.9
105°	181.5	133.6	106.0	89.3	79.0	72.0	69.2	67.4	69.2	72.0	79.0
107.5°	190.0	146.4	121.1	104.6	94.7	87.4	84.4	83.3	84.4	87.4	94.7
110°	196.4	156.1	130.8	115.2	104.8	98.0	95.0	93.9	95.0	98.0	104.8





TEST NUMBER: P332591-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	203.4	165.3	140.9	125.3	115.0	108.6	105.2	104.0	105.2	108.6	115.0
115°	214.3	179.8	156.7	141.2	130.2	124.4	120.4	118.7	120.4	124.4	130.2
117.5°	225.5	193.7	171.8	155.6	145.4	139.1	135.5	133.9	135.5	139.1	145.4
120°	233.3	203.4	181.5	165.3	155.5	149.2	145.2	144.0	145.2	149.2	155.5
122.5°	240.7	212.6	190.7	175.0	164.3	158.4	154.4	153.2	154.4	158.4	164.3
125°	251.8	225.2	204.5	188.3	177.4	171.1	167.6	165.3	167.6	171.1	177.4
127.5°	261.4	237.0	216.9	200.7	189.2	182.1	177.9	176.0	177.9	182.1	189.2
130°	267.3	244.8	225.2	208.5	197.6	188.9	184.3	182.1	184.3	188.9	197.6
132.5°	273.3	251.3	231.7	215.9	204.1	195.9	189.9	188.0	189.9	195.9	204.1
135°	281.1	260.3	241.4	226.4	214.3	204.5	198.7	196.4	198.7	204.5	214.3
137.5°	286.7	267.3	249.5	235.3	222.7	213.4	207.0	204.9	207.0	213.4	222.7
140°	290.3	272.0	254.6	240.8	228.7	218.9	212.6	210.9	212.6	218.9	228.7
142.5°	293.1	276.1	259.2	245.9	234.2	224.9	219.0	217.3	219.0	224.9	234.2
145°	296.1	280.5	265.6	252.9	242.0	233.9	228.1	226.4	228.1	233.9	242.0
147.5°	298.7	285.2	271.1	259.7	250.5	242.3	237.2	236.6	237.2	242.3	250.5
150°	300.1	287.5	274.8	263.9	255.2	248.3	243.7	243.1	243.7	248.3	255.2
152.5°	301.0	289.3	278.0	268.0	260.2	253.8	249.2	249.1	249.2	253.8	260.2
155°	301.8	292.1	282.3	273.7	267.3	261.6	258.1	257.5	258.1	261.6	267.3
157.5°	301.8	294.1	285.7	278.9	273.4	268.9	265.7	265.7	265.7	268.9	273.4
160°	301.8	295.0	288.0	281.7	277.1	273.1	270.7	270.7	270.7	273.1	277.1
162.5°	301.8	295.9	289.4	284.5	280.3	276.7	274.9	275.4	274.9	276.7	280.3
165°	300.7	296.1	290.9	287.5	284.6	281.7	280.5	280.5	280.5	281.7	284.6
167.5°	299.3	296.0	292.2	289.5	287.9	285.7	285.2	285.7	285.2	285.7	287.9
170°	298.4	295.5	292.7	290.9	289.7	288.0	287.5	288.0	287.5	288.0	289.7
172.5°	297.5	295.1	293.1	291.9	291.1	289.8	289.7	290.3	289.7	289.8	291.1
175°	296.1	294.4	293.3	293.3	292.7	292.1	292.1	292.7	292.1	292.1	292.7
177.5°	294.6	293.7	293.3	293.3	293.3	292.8	293.3	293.7	293.3	292.8	293.3
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332591-840

CATALOG NUMBER: S124DIP-S795D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1271.6	1267.8	1262.1	1254.5	1248.0	1241.1	1239.4	1236.8	1241.9	1237.7	1236.4
5°	1229.9	1218.6	1204.2	1187.5	1177.8	1163.9	1161.1	1155.8	1150.4	1149.9	1144.5
7.5°	1185.8	1169.2	1150.2	1133.3	1117.5	1102.3	1092.4	1090.1	1082.3	1077.6	1072.3
10°	1157.4	1137.0	1115.0	1098.8	1080.7	1064.5	1053.2	1046.8	1041.4	1035.5	1030.2
12.5°	1123.9	1102.2	1084.1	1066.6	1044.9	1032.7	1014.1	1003.0	1001.9	1002.0	988.1
15°	1084.9	1063.4	1035.5	1010.8	999.0	975.3	965.1	952.2	944.2	936.1	929.7
17.5°	1040.4	1013.6	991.8	963.4	940.9	922.1	908.7	900.9	888.8	877.4	869.1
20°	1012.4	983.9	960.9	930.8	906.1	882.9	871.7	860.9	851.8	842.1	833.0
22.5°	984.0	954.3	926.0	896.9	873.8	849.5	838.6	823.9	815.3	809.9	800.8
25°	939.4	907.2	874.9	847.0	823.3	801.8	787.4	776.1	766.4	762.1	756.2
27.5°	890.8	858.8	827.7	796.0	769.1	753.6	741.9	733.5	727.8	722.2	719.5
30°	859.9	826.6	793.2	763.8	739.0	723.5	712.7	706.8	702.5	699.8	697.1
32.5°	828.5	795.7	760.6	733.7	711.6	697.7	689.5	683.6	681.5	680.4	679.5
35°	778.2	745.0	712.7	688.5	667.6	662.3	655.2	652.1	651.0	654.7	656.3
37.5°	729.5	698.6	669.0	645.6	631.9	624.0	621.6	621.8	625.6	628.9	632.8
40°	698.2	668.1	640.3	619.8	606.9	602.1	601.0	603.7	607.9	611.8	616.0
42.5°	667.7	638.0	612.7	593.6	584.6	580.2	580.8	583.5	589.5	594.1	600.6
45°	620.4	595.6	570.9	555.3	547.9	548.9	548.9	553.7	559.7	566.6	573.6
47.5°	575.7	550.9	530.5	517.5	513.5	512.6	515.6	521.9	530.4	539.1	548.8
50°	545.6	522.0	504.3	492.5	488.2	489.8	494.1	500.0	510.2	521.0	531.2
52.5°	515.1	493.7	477.3	466.3	463.3	466.2	470.5	479.8	488.8	500.4	512.7
55°	467.8	449.5	436.7	428.6	427.5	429.1	433.9	444.1	457.1	471.6	483.4
57.5°	420.6	405.4	393.5	388.0	388.5	390.0	398.0	410.1	423.8	439.3	454.5
60°	388.9	374.9	365.3	360.9	361.4	364.7	374.4	385.7	402.8	417.9	433.9
62.5°	358.8	346.5	337.3	333.5	332.6	339.7	349.0	360.7	377.9	394.7	412.0
65°	310.4	300.7	293.3	291.1	292.8	298.1	309.9	325.5	340.0	357.7	376.0
67.5°	263.2	255.2	250.0	251.1	253.0	260.9	270.8	284.2	300.6	319.0	337.1
70°	233.1	225.6	221.3	221.8	225.0	234.7	243.3	256.7	274.5	293.3	308.3
72.5°	202.2	197.2	193.4	195.6	198.8	205.5	216.2	229.6	245.2	262.8	278.6
75°	155.2	155.2	153.1	154.7	159.6	165.9	174.0	187.9	203.6	217.5	230.5
77.5°	115.1	114.0	115.3	117.3	120.1	127.7	136.9	146.9	158.6	172.6	183.3
80°	88.1	88.7	91.3	94.5	95.6	101.5	111.2	120.3	129.5	141.3	151.5
82.5°	66.1	66.8	68.1	72.2	73.2	79.6	85.8	94.9	103.2	111.2	119.7
85°	36.0	36.0	38.7	40.3	42.9	47.3	51.0	56.4	63.9	69.3	77.4
87.5°	14.6	14.6	17.1	18.0	19.5	21.8	22.6	27.5	29.3	31.5	35.3
90°	4.6	4.6	8.1	8.1	9.2	10.4	9.8	10.4	10.9	11.5	11.5
92.5°	30.4	42.4	71.7	116.3	160.0	182.7	152.2	113.1	85.1	67.8	56.2
95°	47.8	72.0	122.1	216.6	354.3	469.5	482.7	426.9	337.6	260.3	204.5
97.5°	57.9	78.2	116.7	194.7	331.6	494.5	606.5	630.7	597.5	541.2	481.0
100°	65.6	84.1	118.1	183.2	300.7	463.1	610.7	694.8	706.3	678.0	635.4
102.5°	74.4	91.9	122.7	180.0	279.9	424.0	576.0	691.6	748.7	756.9	739.1
105°	89.3	106.0	133.6	181.5	262.2	377.9	513.3	645.2	744.9	801.9	825.6
107.5°	104.6	121.1	146.4	190.0	258.9	352.1	462.6	579.5	685.5	765.9	817.2
110°	115.2	130.8	156.1	196.4	259.8	343.4	437.3	539.8	639.4	723.0	786.4



TEST NUMBER: P332591-840

CATALOG NUMBER: S124DIP-S795D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	125.3	140.9	165.3	203.4	262.6	339.2	422.9	510.8	598.8	677.8	741.1
115°	141.2	156.7	179.8	214.3	267.9	337.0	409.6	481.6	552.5	619.9	675.2
117.5°	155.6	171.8	193.7	225.5	273.5	336.4	403.6	467.3	525.9	579.0	625.8
120°	165.3	181.5	203.4	233.3	277.7	336.4	400.4	460.9	514.4	560.5	601.4
122.5°	175.0	190.7	212.6	240.7	281.9	336.0	396.7	455.3	507.1	549.0	584.8
125°	188.3	204.5	225.2	251.8	288.0	335.3	390.6	445.9	495.4	535.1	566.8
127.5°	200.7	216.9	237.0	261.4	293.0	334.0	382.4	434.3	481.7	521.4	551.4
130°	208.5	225.2	244.8	267.3	296.7	333.6	377.3	425.2	470.7	509.8	540.4
132.5°	215.9	231.7	251.3	273.3	299.9	333.1	372.7	415.5	458.2	496.4	526.9
135°	226.4	241.4	260.3	281.1	304.8	332.3	365.8	402.1	439.6	474.6	503.5
137.5°	235.3	249.5	267.3	286.7	307.6	332.2	359.8	390.0	421.7	451.3	477.4
140°	240.8	254.6	272.0	290.3	309.9	331.8	356.6	383.0	410.2	436.1	460.3
142.5°	245.9	259.2	276.1	293.1	311.7	331.8	353.9	376.7	400.5	422.7	443.7
145°	252.9	265.6	280.5	296.1	312.9	330.6	349.1	367.5	387.1	404.5	420.5
147.5°	259.7	271.1	285.2	298.7	313.4	328.6	344.9	360.0	375.6	389.4	402.1
150°	263.9	274.8	287.5	300.1	313.4	327.2	341.6	355.5	368.7	380.2	390.6
152.5°	268.0	278.0	289.3	301.0	312.5	324.9	337.9	350.3	361.7	372.3	380.9
155°	273.7	282.3	292.1	301.8	311.0	321.4	332.3	342.7	351.9	360.6	367.5
157.5°	278.9	285.7	294.1	301.8	309.6	317.9	326.8	334.6	342.3	349.5	355.1
160°	281.7	288.0	295.0	301.8	308.2	315.1	322.7	329.5	335.9	342.1	346.8
162.5°	284.5	289.4	295.9	301.8	306.8	312.4	318.9	324.5	329.8	334.8	339.0
165°	287.5	290.9	296.1	300.7	304.2	308.2	312.9	317.4	320.8	324.9	327.8
167.5°	289.5	292.2	296.0	299.3	301.4	304.1	307.3	310.6	313.3	316.5	318.2
170°	290.9	292.7	295.5	298.4	299.5	301.2	303.6	306.5	308.2	310.5	312.3
172.5°	291.9	293.1	295.1	297.5	297.7	298.5	300.3	302.8	304.1	305.5	306.7
175°	293.3	293.3	294.4	296.1	295.5	295.5	296.7	297.8	298.4	299.5	299.5
177.5°	293.3	293.3	293.7	294.6	293.7	293.7	294.2	294.6	295.1	295.1	295.5
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332591-840

CATALOG NUMBER: S124DIP-S795D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1235.5	1234.7	1231.6	1231.2	1231.6	1234.7	1235.5	1236.4	1237.7	1241.9	1236.8
5°	1141.3	1138.6	1137.0	1143.0	1137.0	1138.6	1141.3	1144.5	1149.9	1150.4	1155.8
7.5°	1070.3	1068.1	1063.4	1062.0	1063.4	1068.1	1070.3	1072.3	1077.6	1082.3	1090.1
10°	1024.7	1022.6	1018.3	1017.2	1018.3	1022.6	1024.7	1030.2	1035.5	1041.4	1046.8
12.5°	980.9	976.6	975.7	976.8	975.7	976.6	980.9	988.1	1002.0	1001.9	1003.0
15°	922.7	920.6	914.6	916.3	914.6	920.6	922.7	929.7	936.1	944.2	952.2
17.5°	865.4	862.7	855.6	861.9	855.6	862.7	865.4	869.1	877.4	888.8	900.9
20°	829.3	825.0	821.2	820.6	821.2	825.0	829.3	833.0	842.1	851.8	860.9
22.5°	794.9	791.0	790.7	787.2	790.7	791.0	794.9	800.8	809.9	815.3	823.9
25°	751.9	748.2	747.1	744.4	747.1	748.2	751.9	756.2	762.1	766.4	776.1
27.5°	718.9	717.1	715.2	716.0	715.2	717.1	718.9	719.5	722.2	727.8	733.5
30°	698.7	698.2	697.1	697.1	697.1	698.2	698.7	697.1	699.8	702.5	706.8
32.5°	682.0	681.9	682.6	682.6	682.6	681.9	682.0	679.5	680.4	681.5	683.6
35°	658.4	660.0	661.2	659.5	661.2	660.0	658.4	656.3	654.7	651.0	652.1
37.5°	637.2	638.8	640.4	642.2	640.4	638.8	637.2	632.8	628.9	625.6	621.8
40°	620.9	624.6	625.7	628.4	625.7	624.6	620.9	616.0	611.8	607.9	603.7
42.5°	605.4	609.6	612.4	612.9	612.4	609.6	605.4	600.6	594.1	589.5	583.5
45°	581.7	585.9	589.8	589.8	589.8	585.9	581.7	573.6	566.6	559.7	553.7
47.5°	557.0	563.3	567.0	568.0	567.0	563.3	557.0	548.8	539.1	530.4	521.9
50°	540.3	547.9	551.6	554.3	551.6	547.9	540.3	531.2	521.0	510.2	500.0
52.5°	524.0	531.5	536.5	538.0	536.5	531.5	524.0	512.7	500.4	488.8	479.8
55°	495.7	506.4	512.4	514.5	512.4	506.4	495.7	483.4	471.6	457.1	444.1
57.5°	469.1	479.0	485.8	487.5	485.8	479.0	469.1	454.5	439.3	423.8	410.1
60°	448.5	459.2	467.8	469.4	467.8	459.2	448.5	433.9	417.9	402.8	385.7
62.5°	427.4	438.6	446.4	450.5	446.4	438.6	427.4	412.0	394.7	377.9	360.7
65°	391.0	402.2	409.8	411.4	409.8	402.2	391.0	376.0	357.7	340.0	325.5
67.5°	351.2	362.5	367.5	370.6	367.5	362.5	351.2	337.1	319.0	300.6	284.2
70°	323.4	332.4	337.8	340.5	337.8	332.4	323.4	308.3	293.3	274.5	256.7
72.5°	291.5	301.0	307.3	307.8	307.3	301.0	291.5	278.6	262.8	245.2	229.6
75°	242.8	251.4	254.6	254.6	254.6	251.4	242.8	230.5	217.5	203.6	187.9
77.5°	192.2	196.6	200.7	201.5	200.7	196.6	192.2	183.3	172.6	158.6	146.9
80°	159.6	162.2	165.4	165.4	165.4	162.2	159.6	151.5	141.3	129.5	120.3
82.5°	126.0	128.3	131.5	131.1	131.5	128.3	126.0	119.7	111.2	103.2	94.9
85°	76.2	81.1	80.6	79.5	80.6	81.1	76.2	77.4	69.3	63.9	56.4
87.5°	36.8	37.4	38.5	39.4	38.5	37.4	36.8	35.3	31.5	29.3	27.5
90°	12.1	12.6	12.1	12.1	12.1	12.6	12.1	11.5	11.5	10.9	10.4
92.5°	49.4	46.4	44.3	44.3	44.3	46.4	49.4	56.2	67.8	85.1	113.1
95°	176.3	158.4	148.0	140.6	148.0	158.4	176.3	204.5	260.3	337.6	426.9
97.5°	439.7	405.0	387.7	375.7	387.7	405.0	439.7	481.0	541.2	597.5	630.7
100°	585.3	550.2	532.9	528.3	532.9	550.2	585.3	635.4	678.0	706.3	694.8
102.5°	708.3	682.9	664.7	661.0	664.7	682.9	708.3	739.1	756.9	748.7	691.6
105°	826.7	822.0	814.0	810.5	814.0	822.0	826.7	825.6	801.9	744.9	645.2
107.5°	845.7	858.8	864.5	866.1	864.5	858.8	845.7	817.2	765.9	685.5	579.5
110°	827.3	851.4	861.8	867.0	861.8	851.4	827.3	786.4	723.0	639.4	539.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	787.6	816.9	831.4	839.8	831.4	816.9	787.6	741.1	677.8	598.8	510.8
115°	720.6	755.3	773.7	778.3	773.7	755.3	720.6	675.2	619.9	552.5	481.6
117.5°	664.7	693.7	712.4	716.0	712.4	693.7	664.7	625.8	579.0	525.9	467.3
120°	634.3	659.6	674.6	681.0	674.6	659.6	634.3	601.4	560.5	514.4	460.9
122.5°	612.6	634.3	646.9	653.3	646.9	634.3	612.6	584.8	549.0	507.1	455.3
125°	589.9	606.6	617.5	621.0	617.5	606.6	589.9	566.8	535.1	495.4	445.9
127.5°	574.6	589.5	598.6	602.1	598.6	589.5	574.6	551.4	521.4	481.7	434.3
130°	564.0	578.3	587.6	591.1	587.6	578.3	564.0	540.4	509.8	470.7	425.2
132.5°	550.2	566.4	575.1	578.7	575.1	566.4	550.2	526.9	496.4	458.2	415.5
135°	526.5	542.7	551.9	555.3	551.9	542.7	526.5	503.5	474.6	439.6	402.1
137.5°	498.9	514.8	522.4	526.5	522.4	514.8	498.9	477.4	451.3	421.7	390.0
140°	480.5	493.1	501.2	505.8	501.2	493.1	480.5	460.3	436.1	410.2	383.0
142.5°	461.5	473.3	480.5	483.6	480.5	473.3	461.5	443.7	422.7	400.5	376.7
145°	434.9	444.7	450.5	453.3	450.5	444.7	434.9	420.5	404.5	387.1	367.5
147.5°	412.7	421.1	425.5	426.6	425.5	421.1	412.7	402.1	389.4	375.6	360.0
150°	399.8	407.3	410.7	411.3	410.7	407.3	399.8	390.6	380.2	368.7	355.5
152.5°	388.7	394.9	396.9	397.5	396.9	394.9	388.7	380.9	372.3	361.7	350.3
155°	373.3	377.9	379.6	379.6	379.6	377.9	373.3	367.5	360.6	351.9	342.7
157.5°	359.5	362.9	364.0	364.0	364.0	362.9	359.5	355.1	349.5	342.3	334.6
160°	350.2	353.8	354.3	354.3	354.3	353.8	350.2	346.8	342.1	335.9	329.5
162.5°	341.5	345.0	345.6	345.1	345.6	345.0	341.5	339.0	334.8	329.8	324.5
165°	330.1	332.3	331.8	331.2	331.8	332.3	330.1	327.8	324.9	320.8	317.4
167.5°	319.4	320.8	320.7	320.3	320.7	320.8	319.4	318.2	316.5	313.3	310.6
170°	313.4	314.0	313.4	313.4	313.4	314.0	313.4	312.3	310.5	308.2	306.5
172.5°	307.4	308.0	307.4	306.5	307.4	308.0	307.4	306.7	305.5	304.1	302.8
175°	299.5	300.7	299.5	298.4	299.5	300.7	299.5	299.5	299.5	298.4	297.8
177.5°	295.1	295.5	294.6	293.7	294.6	295.5	295.1	295.5	295.1	295.1	294.6
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332591-840

CATALOG NUMBER: S124DIP-S795D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1239.4	1241.1	1248.0	1254.5	1262.1	1267.8	1271.6	1275.9	1285.0	1292.2	1299.1
5°	1161.1	1163.9	1177.8	1187.5	1204.2	1218.6	1229.9	1242.2	1256.8	1276.7	1294.9
7.5°	1092.4	1102.3	1117.5	1133.3	1150.2	1169.2	1185.8	1204.4	1229.4	1256.7	1284.9
10°	1053.2	1064.5	1080.7	1098.8	1115.0	1137.0	1157.4	1179.4	1207.9	1241.2	1274.6
12.5°	1014.1	1032.7	1044.9	1066.6	1084.1	1102.2	1123.9	1152.8	1186.0	1221.0	1261.2
15°	965.1	975.3	999.0	1010.8	1035.5	1063.4	1084.9	1113.9	1146.1	1192.3	1237.5
17.5°	908.7	922.1	940.9	963.4	991.8	1013.6	1040.4	1070.2	1110.8	1156.7	1213.2
20°	871.7	882.9	906.1	930.8	960.9	983.9	1012.4	1041.4	1083.3	1132.2	1191.2
22.5°	838.6	849.5	873.8	896.9	926.0	954.3	984.0	1017.7	1057.9	1109.4	1169.7
25°	787.4	801.8	823.3	847.0	874.9	907.2	939.4	969.5	1012.4	1066.6	1131.1
27.5°	741.9	753.6	769.1	796.0	827.7	858.8	890.8	928.6	969.9	1027.2	1094.2
30°	712.7	723.5	739.0	763.8	793.2	826.6	859.9	896.4	939.4	996.3	1064.5
32.5°	689.5	697.7	711.6	733.7	760.6	795.7	828.5	866.4	911.4	967.6	1034.0
35°	655.2	662.3	667.6	688.5	712.7	745.0	778.2	818.5	862.0	915.2	981.8
37.5°	621.6	624.0	631.9	645.6	669.0	698.6	729.5	769.2	813.7	867.8	927.9
40°	601.0	602.1	606.9	619.8	640.3	668.1	698.2	737.4	779.8	830.9	890.5
42.5°	580.8	580.2	584.6	593.6	612.7	638.0	667.7	703.5	745.9	793.0	849.2
45°	548.9	548.9	547.9	555.3	570.9	595.6	620.4	654.7	690.1	736.4	783.7
47.5°	515.6	512.6	513.5	517.5	530.5	550.9	575.7	603.9	635.2	674.3	715.7
50°	494.1	489.8	488.2	492.5	504.3	522.0	545.6	570.4	600.0	634.3	669.7
52.5°	470.5	466.2	463.3	466.3	477.3	493.7	515.1	536.8	563.4	591.4	622.1
55°	433.9	429.1	427.5	428.6	436.7	449.5	467.8	487.7	507.6	530.7	552.1
57.5°	398.0	390.0	388.5	388.0	393.5	405.4	420.6	437.9	452.3	466.3	489.2
60°	374.4	364.7	361.4	360.9	365.3	374.9	388.9	406.1	416.3	425.9	445.8
62.5°	349.0	339.7	332.6	333.5	337.3	346.5	358.8	371.2	378.0	388.5	401.9
65°	309.9	298.1	292.8	291.1	293.3	300.7	310.4	318.5	326.0	330.3	343.2
67.5°	270.8	260.9	253.0	251.1	250.0	255.2	263.2	268.0	273.4	277.1	284.8
70°	243.3	234.7	225.0	221.8	221.3	225.6	233.1	233.6	241.2	242.8	250.9
72.5°	216.2	205.5	198.8	195.6	193.4	197.2	202.2	203.6	207.6	210.6	214.7
75°	174.0	165.9	159.6	154.7	153.1	155.2	155.2	157.9	160.6	162.2	167.0
77.5°	136.9	127.7	120.1	117.3	115.3	114.0	115.1	116.7	115.4	118.3	119.4
80°	111.2	101.5	95.6	94.5	91.3	88.7	88.1	89.7	87.6	88.7	91.8
82.5°	85.8	79.6	73.2	72.2	68.1	66.8	66.1	65.2	65.2	65.0	65.6
85°	51.0	47.3	42.9	40.3	38.7	36.0	36.0	34.9	33.8	32.7	33.3
87.5°	22.6	21.8	19.5	18.0	17.1	14.6	14.6	13.2	12.7	11.9	11.3
90°	9.8	10.4	9.2	8.1	8.1	4.6	4.6	4.0	3.4	1.7	0.6
92.5°	152.2	182.7	160.0	116.3	71.7	42.4	30.4	22.0	14.9	9.6	6.6
95°	482.7	469.5	354.3	216.6	122.1	72.0	47.8	34.0	26.5	20.7	19.0
97.5°	606.5	494.5	331.6	194.7	116.7	78.2	57.9	45.9	39.1	34.1	34.1
100°	610.7	463.1	300.7	183.2	118.1	84.1	65.6	54.7	47.8	43.8	43.8
102.5°	576.0	424.0	279.9	180.0	122.7	91.9	74.4	63.9	57.5	53.9	53.0
105°	513.3	377.9	262.2	181.5	133.6	106.0	89.3	79.0	72.0	69.2	67.4
107.5°	462.6	352.1	258.9	190.0	146.4	121.1	104.6	94.7	87.4	84.4	83.3
110°	437.3	343.4	259.8	196.4	156.1	130.8	115.2	104.8	98.0	95.0	93.9



TEST NUMBER: P332591-840

CATALOG NUMBER: S124DIP-S795D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	422.9	339.2	262.6	203.4	165.3	140.9	125.3	115.0	108.6	105.2	104.0
115°	409.6	337.0	267.9	214.3	179.8	156.7	141.2	130.2	124.4	120.4	118.7
117.5°	403.6	336.4	273.5	225.5	193.7	171.8	155.6	145.4	139.1	135.5	133.9
120°	400.4	336.4	277.7	233.3	203.4	181.5	165.3	155.5	149.2	145.2	144.0
122.5°	396.7	336.0	281.9	240.7	212.6	190.7	175.0	164.3	158.4	154.4	153.2
125°	390.6	335.3	288.0	251.8	225.2	204.5	188.3	177.4	171.1	167.6	165.3
127.5°	382.4	334.0	293.0	261.4	237.0	216.9	200.7	189.2	182.1	177.9	176.0
130°	377.3	333.6	296.7	267.3	244.8	225.2	208.5	197.6	188.9	184.3	182.1
132.5°	372.7	333.1	299.9	273.3	251.3	231.7	215.9	204.1	195.9	189.9	188.0
135°	365.8	332.3	304.8	281.1	260.3	241.4	226.4	214.3	204.5	198.7	196.4
137.5°	359.8	332.2	307.6	286.7	267.3	249.5	235.3	222.7	213.4	207.0	204.9
140°	356.6	331.8	309.9	290.3	272.0	254.6	240.8	228.7	218.9	212.6	210.9
142.5°	353.9	331.8	311.7	293.1	276.1	259.2	245.9	234.2	224.9	219.0	217.3
145°	349.1	330.6	312.9	296.1	280.5	265.6	252.9	242.0	233.9	228.1	226.4
147.5°	344.9	328.6	313.4	298.7	285.2	271.1	259.7	250.5	242.3	237.2	236.6
150°	341.6	327.2	313.4	300.1	287.5	274.8	263.9	255.2	248.3	243.7	243.1
152.5°	337.9	324.9	312.5	301.0	289.3	278.0	268.0	260.2	253.8	249.2	249.1
155°	332.3	321.4	311.0	301.8	292.1	282.3	273.7	267.3	261.6	258.1	257.5
157.5°	326.8	317.9	309.6	301.8	294.1	285.7	278.9	273.4	268.9	265.7	265.7
160°	322.7	315.1	308.2	301.8	295.0	288.0	281.7	277.1	273.1	270.7	270.7
162.5°	318.9	312.4	306.8	301.8	295.9	289.4	284.5	280.3	276.7	274.9	275.4
165°	312.9	308.2	304.2	300.7	296.1	290.9	287.5	284.6	281.7	280.5	280.5
167.5°	307.3	304.1	301.4	299.3	296.0	292.2	289.5	287.9	285.7	285.2	285.7
170°	303.6	301.2	299.5	298.4	295.5	292.7	290.9	289.7	288.0	287.5	288.0
172.5°	300.3	298.5	297.7	297.5	295.1	293.1	291.9	291.1	289.8	289.7	290.3
175°	296.7	295.5	295.5	296.1	294.4	293.3	293.3	292.7	292.1	292.1	292.7
177.5°	294.2	293.7	293.7	294.6	293.7	293.3	293.3	293.3	292.8	293.3	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332591-840

CATALOG NUMBER: S124DIP-S795D590U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1305.1	1309.4	1315.0	1324.4	1327.9	1332.2	1338.2	1337.8	1339.5	1345.9	1359.7
5°	1310.0	1326.6	1342.7	1362.0	1382.5	1395.8	1414.1	1425.4	1436.7	1451.2	1475.9
7.5°	1311.9	1338.3	1367.9	1401.8	1432.0	1466.8	1494.0	1519.5	1542.6	1573.3	1602.7
10°	1308.9	1344.3	1382.5	1425.4	1471.1	1509.7	1544.7	1584.4	1618.2	1655.3	1688.6
12.5°	1303.3	1346.0	1397.0	1445.2	1498.5	1555.7	1599.2	1639.4	1684.5	1727.1	1778.4
15°	1290.6	1349.2	1408.8	1472.2	1543.6	1609.6	1672.4	1724.5	1772.9	1836.8	1904.0
17.5°	1274.6	1337.7	1412.9	1489.6	1564.2	1639.7	1717.5	1795.8	1856.8	1936.2	1988.7
20°	1259.5	1332.5	1409.9	1501.2	1575.8	1669.8	1747.2	1822.9	1906.6	1985.6	2048.4
22.5°	1238.4	1318.4	1400.4	1491.3	1589.5	1683.5	1772.9	1855.1	1938.8	2024.7	2100.8
25°	1211.6	1284.1	1381.4	1484.5	1582.3	1684.3	1786.9	1890.0	1980.2	2071.0	2141.9
27.5°	1166.1	1257.7	1348.2	1454.6	1563.3	1678.7	1788.4	1896.3	1990.8	2065.5	2109.4
30°	1143.0	1222.4	1320.7	1427.5	1545.2	1669.3	1783.6	1889.5	1977.5	2037.2	2054.9
32.5°	1108.5	1190.6	1286.8	1397.5	1522.0	1649.5	1768.6	1868.5	1941.9	1973.2	1951.8
35°	1057.5	1131.7	1228.8	1342.2	1471.6	1607.5	1725.2	1809.5	1847.0	1817.5	1743.9
37.5°	996.3	1069.8	1167.4	1278.7	1412.6	1550.7	1657.1	1717.8	1705.4	1631.8	1522.2
40°	953.3	1022.1	1115.0	1235.3	1365.8	1504.4	1597.8	1630.6	1596.2	1491.0	1374.4
42.5°	905.6	972.7	1066.0	1182.0	1320.3	1448.0	1529.5	1532.2	1474.6	1348.8	1231.7
45°	833.0	897.0	985.0	1105.9	1233.7	1354.0	1407.7	1381.4	1275.1	1153.7	1036.0
47.5°	761.3	816.8	903.6	1018.3	1139.7	1241.0	1267.6	1220.2	1106.9	989.1	880.1
50°	708.9	764.8	846.5	956.0	1073.1	1160.6	1173.6	1110.6	999.6	880.8	795.5
52.5°	658.6	714.1	792.7	894.1	1001.4	1080.3	1080.8	1008.0	897.3	791.4	712.1
55°	584.9	634.8	705.7	796.5	892.1	953.8	938.9	863.6	767.5	675.7	606.3
57.5°	513.8	557.2	622.6	698.3	782.5	833.4	808.5	736.1	650.3	572.4	519.9
60°	467.8	509.2	565.0	636.4	707.3	747.1	723.5	657.9	579.0	516.1	470.5
62.5°	423.1	458.1	511.7	573.7	639.4	668.9	647.8	583.2	514.9	458.2	421.1
65°	359.8	388.3	431.3	484.4	532.3	557.4	539.8	479.6	427.5	386.7	357.2
67.5°	300.7	323.0	355.6	398.2	438.8	452.4	436.4	394.5	350.3	317.6	296.8
70°	259.9	280.9	308.3	341.0	376.5	391.0	374.9	341.5	305.6	275.5	255.1
72.5°	224.3	240.5	263.6	291.6	319.3	333.9	322.9	290.8	260.4	238.1	220.8
75°	170.8	184.8	200.9	220.8	242.3	251.9	242.3	220.3	199.2	182.6	170.3
77.5°	124.2	131.7	144.1	159.0	172.4	179.9	171.5	156.5	143.7	132.3	126.2
80°	94.5	99.9	108.5	120.3	129.5	136.4	131.1	118.7	108.5	101.0	98.3
82.5°	68.8	72.4	78.0	86.7	92.9	96.4	94.1	85.1	81.0	74.3	71.6
85°	33.8	36.0	39.8	42.4	47.8	48.4	48.9	45.1	41.4	39.8	37.6
87.5°	11.9	12.7	14.1	15.6	17.3	18.4	18.0	18.2	16.7	16.2	14.5
90°	1.7	3.4	4.0	4.6	4.6	8.1	8.1	9.2	10.4	9.8	10.4
92.5°	9.6	14.9	22.0	30.4	42.4	71.7	116.3	160.0	182.7	152.2	113.1
95°	20.7	26.5	34.0	47.8	72.0	122.1	216.6	354.3	469.5	482.7	426.9
97.5°	34.1	39.1	45.9	57.9	78.2	116.7	194.7	331.6	494.5	606.5	630.7
100°	43.8	47.8	54.7	65.6	84.1	118.1	183.2	300.7	463.1	610.7	694.8
102.5°	53.9	57.5	63.9	74.4	91.9	122.7	180.0	279.9	424.0	576.0	691.6
105°	69.2	72.0	79.0	89.3	106.0	133.6	181.5	262.2	377.9	513.3	645.2
107.5°	84.4	87.4	94.7	104.6	121.1	146.4	190.0	258.9	352.1	462.6	579.5
110°	95.0	98.0	104.8	115.2	130.8	156.1	196.4	259.8	343.4	437.3	539.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.2	108.6	115.0	125.3	140.9	165.3	203.4	262.6	339.2	422.9	510.8
115°	120.4	124.4	130.2	141.2	156.7	179.8	214.3	267.9	337.0	409.6	481.6
117.5°	135.5	139.1	145.4	155.6	171.8	193.7	225.5	273.5	336.4	403.6	467.3
120°	145.2	149.2	155.5	165.3	181.5	203.4	233.3	277.7	336.4	400.4	460.9
122.5°	154.4	158.4	164.3	175.0	190.7	212.6	240.7	281.9	336.0	396.7	455.3
125°	167.6	171.1	177.4	188.3	204.5	225.2	251.8	288.0	335.3	390.6	445.9
127.5°	177.9	182.1	189.2	200.7	216.9	237.0	261.4	293.0	334.0	382.4	434.3
130°	184.3	188.9	197.6	208.5	225.2	244.8	267.3	296.7	333.6	377.3	425.2
132.5°	189.9	195.9	204.1	215.9	231.7	251.3	273.3	299.9	333.1	372.7	415.5
135°	198.7	204.5	214.3	226.4	241.4	260.3	281.1	304.8	332.3	365.8	402.1
137.5°	207.0	213.4	222.7	235.3	249.5	267.3	286.7	307.6	332.2	359.8	390.0
140°	212.6	218.9	228.7	240.8	254.6	272.0	290.3	309.9	331.8	356.6	383.0
142.5°	219.0	224.9	234.2	245.9	259.2	276.1	293.1	311.7	331.8	353.9	376.7
145°	228.1	233.9	242.0	252.9	265.6	280.5	296.1	312.9	330.6	349.1	367.5
147.5°	237.2	242.3	250.5	259.7	271.1	285.2	298.7	313.4	328.6	344.9	360.0
150°	243.7	248.3	255.2	263.9	274.8	287.5	300.1	313.4	327.2	341.6	355.5
152.5°	249.2	253.8	260.2	268.0	278.0	289.3	301.0	312.5	324.9	337.9	350.3
155°	258.1	261.6	267.3	273.7	282.3	292.1	301.8	311.0	321.4	332.3	342.7
157.5°	265.7	268.9	273.4	278.9	285.7	294.1	301.8	309.6	317.9	326.8	334.6
160°	270.7	273.1	277.1	281.7	288.0	295.0	301.8	308.2	315.1	322.7	329.5
162.5°	274.9	276.7	280.3	284.5	289.4	295.9	301.8	306.8	312.4	318.9	324.5
165°	280.5	281.7	284.6	287.5	290.9	296.1	300.7	304.2	308.2	312.9	317.4
167.5°	285.2	285.7	287.9	289.5	292.2	296.0	299.3	301.4	304.1	307.3	310.6
170°	287.5	288.0	289.7	290.9	292.7	295.5	298.4	299.5	301.2	303.6	306.5
172.5°	289.7	289.8	291.1	291.9	293.1	295.1	297.5	297.7	298.5	300.3	302.8
175°	292.1	292.1	292.7	293.3	293.3	294.4	296.1	295.5	295.5	296.7	297.8
177.5°	293.3	292.8	293.3	293.3	293.3	293.7	294.6	293.7	293.7	294.2	294.6
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1366.5	1367.5	1371.3	1374.3	1375.1	1379.5	1379.9
5°	1486.6	1495.8	1513.5	1515.1	1517.8	1531.8	1521.1
7.5°	1627.4	1650.5	1666.1	1679.7	1684.7	1690.7	1689.5
10°	1717.6	1752.0	1769.2	1796.5	1797.7	1804.6	1800.3
12.5°	1808.3	1848.3	1879.6	1884.6	1907.6	1911.2	1917.2
15°	1936.7	1979.1	2022.7	2038.2	2069.9	2077.5	2089.3
17.5°	2057.5	2100.8	2131.3	2171.6	2184.6	2202.0	2190.2
20°	2123.6	2170.9	2209.6	2241.3	2254.7	2264.3	2263.3
22.5°	2163.6	2211.3	2242.6	2266.6	2279.2	2283.3	2283.0
25°	2188.6	2216.0	2225.6	2234.8	2220.9	2216.0	2218.2
27.5°	2119.0	2111.9	2086.7	2053.6	2019.2	1992.0	1977.1
30°	2023.2	1981.4	1943.2	1876.5	1842.2	1821.8	1803.5
32.5°	1887.4	1821.1	1747.7	1686.7	1647.6	1617.3	1612.8
35°	1654.8	1554.9	1465.2	1390.5	1351.8	1319.1	1311.5
37.5°	1406.8	1303.0	1222.3	1156.6	1115.0	1091.9	1070.3
40°	1242.2	1153.2	1073.6	1017.7	986.1	969.5	956.0
42.5°	1115.5	1034.1	955.0	912.5	883.8	873.6	865.8
45°	940.4	864.7	809.9	777.7	761.0	743.9	735.8
47.5°	800.2	738.6	702.5	675.1	657.3	647.1	642.0
50°	720.7	670.2	638.0	617.1	601.0	592.9	588.7
52.5°	650.3	608.8	581.8	565.1	554.2	548.3	546.5
55°	560.2	528.5	511.3	496.9	488.8	483.4	481.2
57.5°	487.0	462.5	448.6	436.7	433.5	429.0	427.5
60°	438.8	420.0	408.2	400.1	397.5	392.0	393.1
62.5°	396.3	380.9	370.8	366.2	362.6	358.1	359.6
65°	335.2	323.9	318.5	314.2	309.9	307.2	309.3
67.5°	281.2	273.5	266.2	263.7	261.6	261.2	258.8
70°	246.0	239.5	233.1	231.5	231.5	229.3	228.8
72.5°	212.1	207.3	203.0	201.9	200.2	201.0	198.7
75°	163.8	160.1	158.4	156.8	156.3	156.3	154.7
77.5°	121.1	118.3	115.7	115.7	113.7	113.0	112.8
80°	91.8	90.8	88.7	88.7	87.6	88.1	87.1
82.5°	69.1	67.6	67.2	66.2	64.7	64.8	63.8
85°	37.1	35.4	34.9	33.3	32.2	33.3	32.2
87.5°	15.0	14.7	14.3	13.6	13.2	13.1	11.9
90°	10.9	11.5	11.5	12.1	12.6	12.1	12.1
92.5°	85.1	67.8	56.2	49.4	46.4	44.3	44.3
95°	337.6	260.3	204.5	176.3	158.4	148.0	140.6
97.5°	597.5	541.2	481.0	439.7	405.0	387.7	375.7
100°	706.3	678.0	635.4	585.3	550.2	532.9	528.3
102.5°	748.7	756.9	739.1	708.3	682.9	664.7	661.0
105°	744.9	801.9	825.6	826.7	822.0	814.0	810.5
107.5°	685.5	765.9	817.2	845.7	858.8	864.5	866.1
110°	639.4	723.0	786.4	827.3	851.4	861.8	867.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	598.8	677.8	741.1	787.6	816.9	831.4	839.8
115°	552.5	619.9	675.2	720.6	755.3	773.7	778.3
117.5°	525.9	579.0	625.8	664.7	693.7	712.4	716.0
120°	514.4	560.5	601.4	634.3	659.6	674.6	681.0
122.5°	507.1	549.0	584.8	612.6	634.3	646.9	653.3
125°	495.4	535.1	566.8	589.9	606.6	617.5	621.0
127.5°	481.7	521.4	551.4	574.6	589.5	598.6	602.1
130°	470.7	509.8	540.4	564.0	578.3	587.6	591.1
132.5°	458.2	496.4	526.9	550.2	566.4	575.1	578.7
135°	439.6	474.6	503.5	526.5	542.7	551.9	555.3
137.5°	421.7	451.3	477.4	498.9	514.8	522.4	526.5
140°	410.2	436.1	460.3	480.5	493.1	501.2	505.8
142.5°	400.5	422.7	443.7	461.5	473.3	480.5	483.6
145°	387.1	404.5	420.5	434.9	444.7	450.5	453.3
147.5°	375.6	389.4	402.1	412.7	421.1	425.5	426.6
150°	368.7	380.2	390.6	399.8	407.3	410.7	411.3
152.5°	361.7	372.3	380.9	388.7	394.9	396.9	397.5
155°	351.9	360.6	367.5	373.3	377.9	379.6	379.6
157.5°	342.3	349.5	355.1	359.5	362.9	364.0	364.0
160°	335.9	342.1	346.8	350.2	353.8	354.3	354.3
162.5°	329.8	334.8	339.0	341.5	345.0	345.6	345.1
165°	320.8	324.9	327.8	330.1	332.3	331.8	331.2
167.5°	313.3	316.5	318.2	319.4	320.8	320.7	320.3
170°	308.2	310.5	312.3	313.4	314.0	313.4	313.4
172.5°	304.1	305.5	306.7	307.4	308.0	307.4	306.5
175°	298.4	299.5	299.5	299.5	300.7	299.5	298.4
177.5°	295.1	295.1	295.5	295.1	295.5	294.6	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3

(END OF REPORT)