

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: P331825-940

Luminaire Tested: **S122RDIW-S865D435U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331825-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D435U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4487.7 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

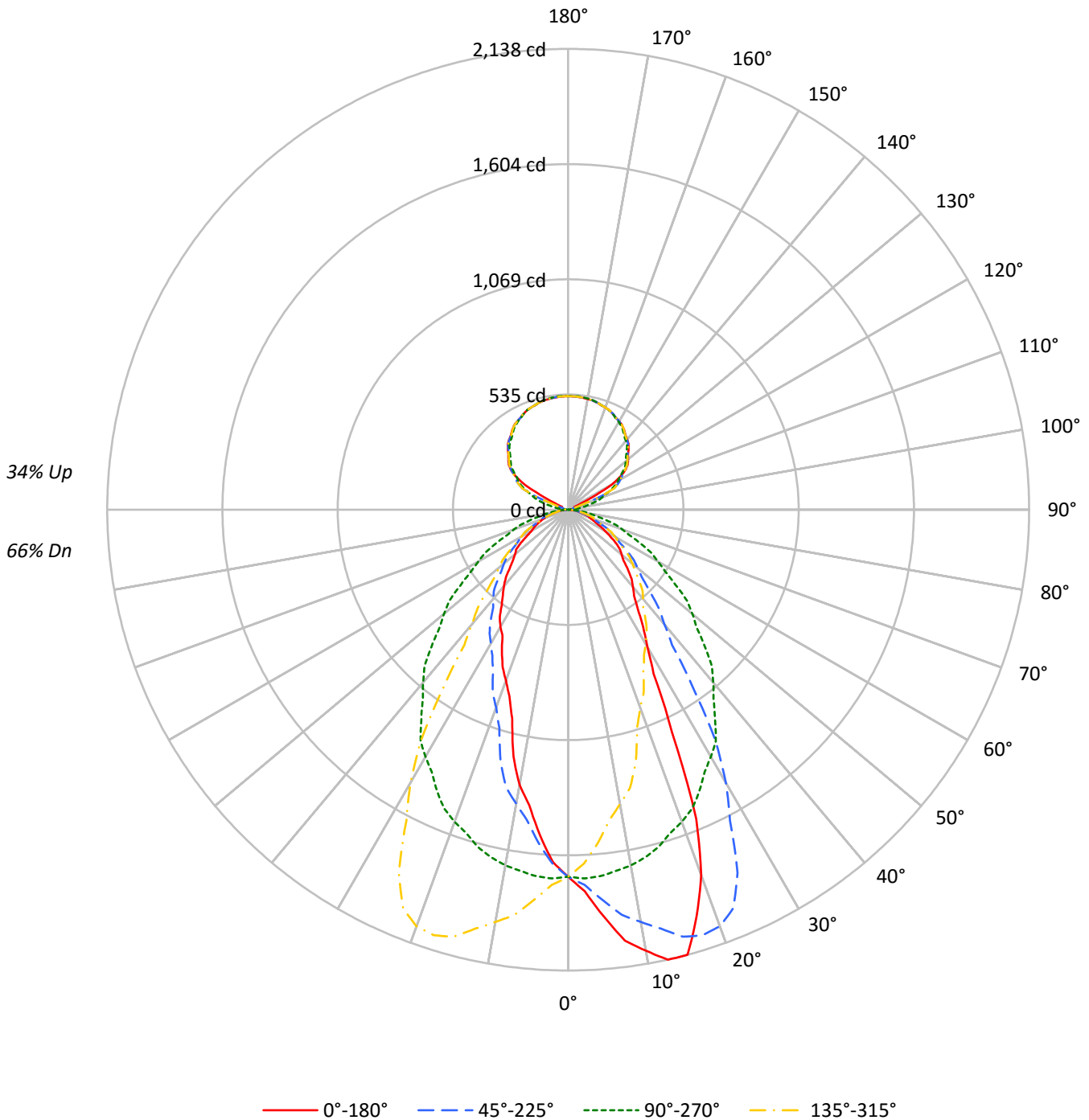
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66
1	102	98	95	91	96	93	90	87	82	80	78	73	71	69	64	63	61	57
2	94	87	81	76	88	82	77	73	73	69	66	65	62	60	58	55	53	50
3	87	78	71	65	81	73	67	62	66	61	57	59	55	52	52	49	47	43
4	80	70	62	56	75	66	59	54	59	54	50	53	49	45	47	44	41	38
5	74	63	55	49	69	60	53	47	54	48	44	48	44	40	43	40	37	34
6	69	57	49	43	65	54	47	42	49	43	39	44	40	36	40	36	33	31
7	64	52	44	39	60	50	43	38	45	39	35	41	36	32	37	33	30	28
8	60	48	40	35	56	45	39	34	41	36	32	38	33	29	34	30	27	25
9	56	44	37	32	53	42	35	31	38	33	29	35	30	27	32	28	25	23
10	52	41	34	29	50	39	32	28	36	30	26	33	28	25	30	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27493	27493	27493	27493
5°	30705	27665	24530	27665
10°	34067	27471	21263	27471
15°	35741	27067	16754	27067
20°	30986	26472	14496	26472
25°	20322	25655	12944	25655
30°	13679	24664	11714	24664
35°	11077	23416	10565	23416
40°	9851	22059	9778	22059
45°	8917	20466	8727	20466
50°	8116	18889	8083	18889
55°	7628	17140	7527	17140
60°	6381	15532	6307	15532
65°	5379	14105	6101	14105
70°	4971	12595	5755	12595
75°	4648	10967	5315	10967
80°	4296	9019	4733	9019
85°	3946	7114	4168	7114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	3.6
10°-20°	449.8	10.0
20°-30°	579.6	12.9
30°-40°	550.8	12.3
40°-50°	471.8	10.5
50°-60°	359.3	8.0
60°-70°	227.1	5.1
70°-80°	113.4	2.5
80°-90°	30.8	0.7
90°-100°	17.6	0.4
100°-110°	64.4	1.4
110°-120°	172.2	3.8
120°-130°	284.3	6.3
130°-140°	302.4	6.7
140°-150°	281.0	6.3
150°-160°	225.9	5.0
160°-170°	145.6	3.2
170°-180°	50.1	1.1
0°-30°	1190.8	26.5
0°-40°	1741.6	38.8
0°-60°	2572.7	57.3
0°-90°	2944.1	65.6
90°-120°	254.2	5.7
90°-150°	1121.9	25.0
90°-180°	1544.0	34.4
0°-180°	4487.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1703	1703	1703	1703	1703	
5°	1894	1707	1514	1707	1894	187
15°	2138	1619	1002	1619	2138	577
25°	1141	1440	727	1440	1141	541
35°	562	1188	536	1188	562	360
45°	390	896	382	896	390	302
55°	271	609	267	609	271	238
65°	141	369	160	369	141	143
75°	74	176	85	176	74	79
85°	21	38	22	38	21	23
90°	10	0	10	0	10	6
95°	16	25	16	25	16	15
105°	29	116	29	116	29	30
115°	31	219	31	219	31	78
125°	326	310	326	310	326	282
135°	396	383	396	383	396	305
145°	452	445	452	445	452	282
155°	490	490	490	490	490	226
165°	515	516	515	516	515	145
175°	525	528	525	528	525	50
180°	527	527	527	527	527	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1771.9	1773.3	1774.8	1771.4	1771.4	1768.6	1762.5	1757.7	1744.5	1742.6	1742.6
5°	1894.5	1893.3	1895.7	1888.0	1877.3	1875.0	1863.8	1849.0	1833.5	1816.4	1812.8
7.5°	2016.3	2014.6	2009.8	2008.6	2000.4	1982.5	1964.4	1945.2	1919.6	1894.6	1882.0
10°	2077.9	2097.4	2085.6	2064.8	2069.0	2041.2	2026.4	2001.0	1979.7	1942.4	1934.1
12.5°	2138.5	2146.2	2142.4	2130.7	2125.4	2106.0	2086.1	2064.0	2024.6	1991.2	1962.0
15°	2138.2	2149.5	2152.4	2148.9	2151.9	2150.7	2140.0	2121.6	2087.4	2050.7	2018.7
17.5°	1980.4	1988.2	2007.6	2020.7	2037.3	2072.3	2089.6	2096.3	2091.2	2070.3	2047.8
20°	1803.4	1790.4	1844.8	1872.6	1896.2	1955.4	2006.3	2025.9	2057.2	2056.6	2050.7
22.5°	1552.5	1555.6	1607.2	1640.2	1709.3	1768.4	1826.5	1900.0	1960.6	2000.7	2024.2
25°	1140.7	1163.2	1214.7	1259.6	1336.6	1446.6	1546.6	1662.6	1772.0	1858.4	1940.6
27.5°	856.8	858.4	899.2	940.8	986.4	1076.6	1202.5	1341.0	1497.0	1625.8	1773.9
30°	733.7	730.1	747.3	772.7	811.7	881.5	976.2	1112.3	1267.9	1462.0	1634.8
32.5°	646.6	646.8	659.7	678.5	711.0	758.0	822.9	933.4	1080.5	1271.2	1473.8
35°	562.0	561.5	571.0	584.5	598.2	628.3	672.7	730.7	831.9	1010.0	1217.0
37.5°	501.5	504.1	508.7	517.2	532.3	549.0	575.7	614.7	686.7	792.0	966.1
40°	467.4	468.6	475.1	482.2	491.1	504.1	526.0	557.3	610.0	694.0	821.2
42.5°	436.1	437.4	441.9	448.6	455.6	468.6	486.7	513.8	556.5	622.1	727.0
45°	390.5	390.5	394.7	397.6	405.3	417.1	431.9	454.4	483.9	532.5	602.4
47.5°	347.7	347.8	350.5	355.6	360.4	369.7	384.2	402.6	424.1	461.6	521.3
50°	323.1	323.6	325.4	329.6	332.5	340.8	352.0	368.0	390.5	419.5	469.2
52.5°	303.2	302.8	305.1	306.8	308.9	314.8	323.2	337.2	357.4	382.5	423.7
55°	271.0	268.6	272.2	275.1	276.9	279.3	284.0	292.8	310.0	331.4	362.1
57.5°	230.8	229.8	232.3	235.0	240.6	246.9	251.0	256.6	265.6	280.8	311.3
60°	197.6	197.6	203.0	204.7	211.2	219.5	227.8	232.6	241.4	251.5	273.9
62.5°	168.3	168.7	171.2	173.0	176.6	186.8	198.4	208.8	217.2	226.9	241.7
65°	140.8	142.0	142.0	143.2	145.5	147.9	152.7	161.0	175.8	189.3	200.5
67.5°	119.5	119.8	120.2	121.5	122.0	124.6	126.5	130.2	133.6	146.5	160.4
70°	105.3	107.1	106.5	107.7	108.3	109.4	111.8	113.6	119.0	121.9	130.2
72.5°	92.0	93.4	93.3	94.0	95.5	95.8	97.6	99.4	102.8	105.3	109.8
75°	74.5	73.9	74.5	75.7	76.3	77.0	77.0	79.3	81.1	83.5	86.4
77.5°	57.5	58.1	58.0	58.1	58.2	59.3	59.2	60.2	62.0	63.2	64.6
80°	46.2	46.7	46.2	46.7	47.3	47.9	47.3	47.9	49.7	50.9	50.9
82.5°	35.8	35.8	36.2	36.3	36.5	36.6	37.4	37.5	38.8	38.6	39.1
85°	21.3	20.7	20.7	20.7	21.3	21.8	21.3	21.3	21.8	21.8	21.8
87.5°	9.6	10.1	10.1	10.0	10.0	9.9	9.8	10.3	9.6	10.1	9.5
90°	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5	8.0	7.6	7.0
92.5°	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3	9.1	8.8	8.5
95°	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7	15.2	14.9	14.3
97.5°	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6	20.2	19.9	18.5
100°	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1	22.4	21.8	20.2
102.5°	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1	23.2	22.3	34.4
105°	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1	24.2	23.3	46.4
107.5°	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7	31.6	32.5	60.3
110°	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8	58.2	66.7	91.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5	137.3	168.3	174.2
115°	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8	195.9	235.1	233.0
117.5°	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5	251.0	260.5	259.0
120°	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4	280.4	279.4	277.9
122.5°	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5	298.0	297.4	295.7
125°	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2	322.6	322.1	320.5
127.5°	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1	345.2	344.3	343.1
130°	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5	359.5	358.6	357.8
132.5°	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6	373.8	373.0	372.0
135°	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7	393.8	393.0	392.2
137.5°	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3	412.4	411.6	410.7
140°	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3	424.5	423.8	422.8
142.5°	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5	435.8	435.1	434.0
145°	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1	451.5	450.8	449.4
147.5°	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7	465.2	464.8	463.3
150°	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0	473.5	473.0	471.6
152.5°	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6	481.1	480.6	479.3
155°	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0	491.4	490.9	489.9
157.5°	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6	500.0	499.4	498.7
160°	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6	505.2	504.6	504.1
162.5°	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3	509.8	509.2	508.7
165°	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1	515.5	514.9	514.7
167.5°	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9	520.3	519.7	519.5
170°	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3	522.7	522.2	522.0
172.5°	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1	524.6	524.0	523.8
175°	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2	526.6	525.9	525.8
177.5°	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4	526.9	526.4	526.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1743.5	1739.7	1736.4	1727.9	1723.6	1714.1	1712.7	1712.3	1700.0	1688.1	1684.8
5°	1803.4	1793.9	1779.7	1763.2	1746.0	1728.2	1716.4	1706.9	1683.3	1660.8	1647.8
7.5°	1863.8	1843.3	1818.9	1787.5	1761.4	1732.1	1710.2	1690.7	1657.2	1625.0	1603.3
10°	1908.7	1875.5	1843.0	1799.8	1766.1	1733.0	1702.2	1675.6	1637.7	1595.1	1565.0
12.5°	1936.6	1900.1	1855.3	1813.1	1769.4	1727.2	1686.1	1651.9	1607.4	1563.4	1527.5
15°	1974.3	1935.3	1880.9	1820.5	1764.3	1709.3	1662.0	1619.3	1561.4	1508.7	1464.9
17.5°	2005.3	1951.5	1893.1	1823.3	1758.2	1688.3	1627.3	1572.9	1508.3	1444.8	1393.2
20°	2015.2	1961.9	1894.5	1824.7	1747.8	1665.5	1599.8	1540.7	1471.4	1402.2	1343.1
22.5°	2009.0	1967.6	1892.6	1809.0	1730.3	1644.2	1570.0	1501.4	1424.6	1354.0	1285.3
25°	1967.3	1953.0	1882.0	1790.9	1701.0	1601.1	1515.2	1440.1	1352.5	1276.8	1202.2
27.5°	1869.9	1900.5	1856.5	1759.4	1659.5	1552.3	1455.8	1370.3	1279.4	1194.2	1119.9
30°	1776.2	1846.6	1827.7	1737.7	1625.9	1520.5	1412.3	1322.9	1225.9	1138.4	1065.0
32.5°	1647.9	1764.2	1782.7	1707.4	1591.8	1476.0	1362.6	1273.7	1172.4	1080.1	1008.6
35°	1443.7	1617.6	1697.5	1649.6	1533.6	1408.7	1291.6	1188.0	1086.3	995.1	924.2
37.5°	1200.0	1436.9	1570.0	1573.4	1467.0	1337.1	1209.6	1106.8	1002.6	913.2	836.3
40°	1041.9	1298.7	1472.0	1510.5	1420.6	1280.3	1151.4	1046.6	944.9	857.3	769.2
42.5°	899.9	1155.7	1368.9	1435.7	1364.2	1224.9	1095.6	986.1	887.2	804.3	714.3
45°	727.7	951.4	1186.2	1305.8	1266.1	1137.2	1000.5	896.3	803.4	731.9	645.5
47.5°	613.9	771.5	998.8	1160.5	1159.8	1042.1	907.6	807.9	721.7	654.6	584.7
50°	549.0	686.3	878.6	1062.0	1077.4	978.6	850.8	752.0	671.5	601.1	544.9
52.5°	490.8	604.0	776.9	952.7	996.5	910.9	786.9	695.7	617.6	552.9	504.7
55°	414.7	502.3	633.6	798.2	864.4	804.1	694.0	608.9	545.5	491.1	449.7
57.5°	350.9	416.5	521.9	654.3	731.6	693.6	602.8	533.6	479.4	430.2	397.4
60°	310.6	364.4	453.8	564.5	649.6	623.0	545.5	481.0	434.9	392.3	361.5
62.5°	272.8	319.1	395.6	485.4	563.5	552.5	489.2	435.1	394.7	355.8	329.8
65°	219.5	253.2	313.0	383.4	446.1	451.5	405.9	369.2	333.1	302.4	279.3
67.5°	174.8	196.8	238.9	298.2	345.2	361.9	334.1	306.1	277.5	253.7	233.7
70°	147.3	165.1	195.8	243.8	287.0	304.7	288.7	266.8	242.0	222.5	205.3
72.5°	119.4	136.7	159.3	194.6	231.6	250.7	245.2	229.4	209.3	193.1	176.9
75°	90.0	95.2	110.7	134.3	163.3	179.9	184.0	175.8	159.7	147.3	137.9
77.5°	66.5	69.7	77.0	89.4	108.4	123.1	129.2	128.2	117.3	110.0	101.2
80°	53.2	55.0	58.6	63.9	78.1	92.9	97.0	97.0	89.3	86.4	77.5
82.5°	40.5	41.7	43.9	46.8	53.5	66.3	71.0	72.0	67.1	63.2	56.2
85°	23.1	22.5	23.6	25.4	26.7	30.1	37.3	38.4	37.3	32.5	30.8
87.5°	9.3	9.6	9.5	8.8	9.2	9.5	11.6	13.8	12.1	10.9	10.1
90°	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7	7.6	7.5	7.4
95°	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8	21.9	19.2	16.4
97.5°	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1	41.3	33.4	25.5
100°	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5	55.8	44.2	32.6
102.5°	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6	85.2	82.7	80.3
105°	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8	118.4	120.9	123.5
107.5°	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1	150.2	152.2	154.3
110°	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8	170.6	172.4	174.2



TEST NUMBER: P331825-940

CATALOG NUMBER: S122RDIW-S865D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3	189.9	191.5	193.1
115°	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2	220.6	222.0	223.5
117.5°	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6	248.3	249.9	251.5
120°	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8	268.0	269.3	270.6
122.5°	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8	285.2	286.5	287.8
125°	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9	310.9	312.1	313.2
127.5°	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4	334.7	335.8	337.1
130°	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4	349.7	351.1	352.4
132.5°	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6	364.7	365.9	367.0
135°	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4	384.8	386.1	387.4
137.5°	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5	404.4	405.4	406.4
140°	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6	417.2	417.9	418.6
142.5°	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6	428.2	428.7	429.4
145°	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8	444.7	444.6	444.5
147.5°	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8	459.5	459.1	458.9
150°	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6	469.0	468.3	467.8
152.5°	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8	477.2	476.4	475.8
155°	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7	489.0	488.2	487.5
157.5°	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1	498.5	497.8	497.2
160°	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	504.1	503.6	503.1
162.5°	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5	509.0	508.5	508.0
165°	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0	515.6	515.1	514.5
167.5°	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9	520.4	520.0	519.4
170°	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7	523.2	522.6	522.2
172.5°	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5	525.0	524.5	524.0
175°	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9	527.3	526.6	526.1
177.5°	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2	527.8	527.3	526.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331825-940

CATALOG NUMBER: S122RDIW-S865D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1678.6	1675.3	1669.2	1659.7	1654.0	1644.1	1637.4	1641.3	1642.2	1641.3	1640.3
5°	1633.5	1621.1	1604.0	1587.4	1572.0	1555.5	1546.0	1541.9	1533.6	1528.8	1526.5
7.5°	1579.0	1557.6	1533.3	1504.5	1480.0	1454.3	1441.2	1434.7	1417.7	1408.5	1400.4
10°	1538.3	1504.6	1480.3	1442.4	1419.4	1385.6	1362.6	1363.2	1340.1	1327.0	1317.6
12.5°	1493.3	1456.3	1415.9	1381.9	1349.8	1322.7	1294.9	1283.6	1259.2	1246.6	1221.0
15°	1418.8	1375.6	1333.0	1286.8	1254.3	1212.3	1172.1	1122.9	1083.3	1049.0	1039.6
17.5°	1337.4	1283.9	1241.2	1187.0	1131.2	1060.6	1014.0	985.4	961.5	943.4	930.0
20°	1281.6	1227.1	1181.5	1099.9	1024.8	976.9	942.5	920.6	895.8	876.3	865.6
22.5°	1222.8	1166.0	1103.9	1012.8	954.2	915.8	885.2	860.1	843.2	828.0	818.2
25°	1139.5	1077.4	975.1	912.3	865.0	824.7	803.4	788.1	770.3	749.7	740.1
27.5°	1051.5	952.7	879.2	832.6	787.4	761.3	742.1	719.1	703.2	693.9	684.0
30°	985.7	886.9	829.5	778.6	746.6	717.6	695.2	682.2	666.8	650.9	644.4
32.5°	912.3	833.4	778.4	736.0	703.6	678.9	661.1	640.1	628.9	619.1	605.5
35°	821.2	761.4	711.1	676.9	646.1	626.0	605.3	592.8	572.7	564.5	559.1
37.5°	744.0	692.2	654.7	618.5	594.1	571.9	559.2	539.5	530.7	519.2	508.0
40°	700.5	649.6	613.6	584.0	556.8	540.2	524.2	508.3	495.3	489.9	476.3
42.5°	656.0	614.7	578.5	546.1	527.9	510.3	490.2	478.4	464.9	456.3	447.9
45°	594.6	557.9	527.2	500.5	480.5	462.1	449.1	429.5	421.9	404.7	397.6
47.5°	540.6	506.6	477.2	451.9	432.3	420.4	401.3	386.0	373.7	363.2	354.0
50°	502.3	473.9	445.5	423.0	405.3	388.2	368.6	360.9	342.0	336.6	331.4
52.5°	467.3	440.3	414.3	392.3	374.5	357.8	340.6	330.6	317.8	312.5	308.6
55°	418.3	392.3	367.4	347.9	330.1	313.0	302.4	289.9	284.0	279.8	275.1
57.5°	369.1	345.6	326.6	306.8	289.0	275.4	263.1	255.6	249.4	244.0	238.4
60°	337.9	315.3	298.2	279.8	261.5	250.3	240.8	231.9	224.8	216.5	214.2
62.5°	304.7	285.1	269.3	251.5	235.5	225.2	216.2	207.8	199.3	187.2	183.9
65°	259.1	243.8	227.2	212.4	198.2	188.2	175.1	165.7	162.1	161.0	160.3
67.5°	217.9	203.4	189.2	174.1	161.1	151.9	145.2	143.7	141.2	140.5	138.9
70°	190.5	176.9	162.7	148.5	136.1	134.3	132.0	129.6	126.6	125.5	124.2
72.5°	165.9	151.9	137.6	126.3	120.9	118.7	116.3	114.0	111.9	110.8	110.0
75°	127.2	114.2	104.7	100.6	97.6	95.9	92.3	90.5	89.3	87.6	86.9
77.5°	91.6	84.3	79.9	77.3	74.2	72.3	70.3	68.5	67.2	66.9	65.9
80°	69.8	66.3	63.3	59.7	58.6	56.2	55.6	53.9	54.4	52.7	52.7
82.5°	54.2	49.7	47.2	45.6	44.4	42.4	41.9	41.0	41.2	39.9	39.9
85°	27.8	26.7	25.4	24.3	24.3	22.5	23.1	22.5	22.5	21.3	20.7
87.5°	9.8	9.5	8.6	8.8	9.0	8.6	8.7	8.3	8.4	8.5	8.1
90°	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5	8.9	9.3	9.6
92.5°	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3	9.5	9.7	9.9
95°	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7	16.1	16.6	16.8
97.5°	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6	21.0	21.2	21.5
100°	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1	23.7	24.4	24.9
102.5°	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1	25.0	25.9	26.4
105°	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1	26.0	27.0	27.6
107.5°	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7	29.7	28.7	28.4
110°	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8	41.3	32.8	28.7



TEST NUMBER: P331825-940

CATALOG NUMBER: S122RDIW-S865D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5	75.5	44.7	29.3
115°	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8	117.5	78.3	55.6
117.5°	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5	232.0	222.5	207.8
120°	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4	282.4	283.5	278.2
122.5°	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5	299.2	299.8	299.0
125°	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2	323.9	324.4	324.9
127.5°	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1	346.9	347.8	348.2
130°	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5	361.4	362.4	362.8
132.5°	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6	375.3	376.1	376.5
135°	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7	395.5	396.4	396.6
137.5°	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3	414.1	414.9	415.2
140°	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3	426.1	426.9	427.0
142.5°	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5	437.2	437.9	438.0
145°	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1	452.6	453.3	453.3
147.5°	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7	466.1	466.5	466.5
150°	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0	474.5	475.0	475.1
152.5°	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6	482.1	482.7	482.6
155°	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0	492.4	492.9	492.8
157.5°	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6	501.1	501.8	501.7
160°	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6	506.1	506.7	506.6
162.5°	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3	511.0	511.5	511.4
165°	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1	516.7	517.3	517.3
167.5°	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9	521.5	522.1	522.0
170°	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3	524.0	524.5	524.4
172.5°	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1	525.8	526.4	526.3
175°	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2	527.7	528.3	528.2
177.5°	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4	527.8	528.3	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331825-940

CATALOG NUMBER: S122RDIW-S865D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1635.1	1636.0	1634.6	1635.6	1634.6	1636.0	1635.1	1640.3	1641.3	1642.2	1641.3
5°	1523.5	1516.4	1515.2	1513.5	1515.2	1516.4	1523.5	1526.5	1528.8	1533.6	1541.9
7.5°	1390.3	1389.2	1386.3	1382.2	1386.3	1389.2	1390.3	1400.4	1408.5	1417.7	1434.7
10°	1304.6	1301.6	1301.1	1296.9	1301.1	1301.6	1304.6	1317.6	1327.0	1340.1	1363.2
12.5°	1204.3	1185.2	1183.2	1172.9	1183.2	1185.2	1204.3	1221.0	1246.6	1259.2	1283.6
15°	1025.4	1021.8	1010.0	1002.3	1010.0	1021.8	1025.4	1039.6	1049.0	1083.3	1122.9
17.5°	923.1	911.5	907.9	906.2	907.9	911.5	923.1	930.0	943.4	961.5	985.4
20°	857.3	846.7	844.9	843.7	844.9	846.7	857.3	865.6	876.3	895.8	920.6
22.5°	811.9	800.8	796.1	792.6	796.1	800.8	811.9	818.2	828.0	843.2	860.1
25°	734.2	730.1	727.7	726.6	727.7	730.1	734.2	740.1	749.7	770.3	788.1
27.5°	673.5	664.4	662.6	659.6	662.6	664.4	673.5	684.0	693.9	703.2	719.1
30°	639.0	636.1	631.9	628.3	631.9	636.1	639.0	644.4	650.9	666.8	682.2
32.5°	598.2	595.8	592.1	590.5	592.1	595.8	598.2	605.5	619.1	628.9	640.1
35°	553.2	544.9	541.4	536.0	541.4	544.9	553.2	559.1	564.5	572.7	592.8
37.5°	505.5	501.1	496.1	497.9	496.1	501.1	505.5	508.0	519.2	530.7	539.5
40°	468.6	465.7	464.5	463.9	464.5	465.7	468.6	476.3	489.9	495.3	508.3
42.5°	439.3	431.1	428.0	427.8	428.0	431.1	439.3	447.9	456.3	464.9	478.4
45°	394.7	386.9	381.7	382.2	381.7	386.9	394.7	397.6	404.7	421.9	429.5
47.5°	348.9	348.7	345.4	346.5	345.4	348.7	348.9	354.0	363.2	373.7	386.0
50°	327.2	323.6	321.3	321.8	321.3	323.6	327.2	331.4	336.6	342.0	360.9
52.5°	306.4	303.3	301.4	303.9	301.4	303.3	306.4	308.6	312.5	317.8	330.6
55°	272.2	268.6	268.0	267.4	268.0	268.6	272.2	275.1	279.8	284.0	289.9
57.5°	234.0	231.6	228.0	226.5	228.0	231.6	234.0	238.4	244.0	249.4	255.6
60°	206.5	201.8	195.8	195.3	195.8	201.8	206.5	214.2	216.5	224.8	231.9
62.5°	181.4	180.5	179.2	179.1	179.2	180.5	181.4	183.9	187.2	199.3	207.8
65°	159.2	158.5	159.2	159.7	159.2	158.5	159.2	160.3	161.0	162.1	165.7
67.5°	138.7	137.6	136.5	137.1	136.5	137.6	138.7	138.9	140.5	141.2	143.7
70°	123.1	122.4	121.9	121.9	121.9	122.4	123.1	124.2	125.5	126.6	129.6
72.5°	107.9	107.8	107.2	106.7	107.2	107.8	107.9	110.0	110.8	111.9	114.0
75°	86.4	85.2	85.2	85.2	85.2	85.2	86.4	86.9	87.6	89.3	90.5
77.5°	65.8	65.2	64.6	64.1	64.6	65.2	65.8	65.9	66.9	67.2	68.5
80°	52.1	51.5	50.9	50.9	50.9	51.5	52.1	52.7	52.7	54.4	53.9
82.5°	39.8	39.1	39.1	38.6	39.1	39.1	39.8	39.9	39.9	41.2	41.0
85°	21.3	21.8	21.3	22.5	21.3	21.8	21.3	20.7	21.3	22.5	22.5
87.5°	8.1	7.7	8.2	7.8	8.2	7.7	8.1	8.1	8.5	8.4	8.3
90°	9.8	10.0	10.2	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5
92.5°	10.0	10.1	10.2	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3
95°	16.7	16.6	16.5	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7
97.5°	21.6	21.7	21.8	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6
100°	25.1	25.2	25.3	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1
102.5°	26.7	26.9	27.1	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1
105°	27.9	28.3	28.6	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1
107.5°	28.8	29.2	29.4	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7
110°	29.1	29.4	29.8	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8



TEST NUMBER: P331825-940

CATALOG NUMBER: S122RDIW-S865D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.6	29.9	30.1	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5
115°	49.6	43.4	37.4	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8
117.5°	187.7	167.6	147.7	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5
120°	266.8	255.4	243.9	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4
122.5°	296.8	294.5	292.3	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5
125°	325.1	325.4	325.7	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2
127.5°	348.3	348.3	348.4	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1
130°	362.7	362.7	362.6	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5
132.5°	376.4	376.3	376.3	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6
135°	396.5	396.4	396.2	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7
137.5°	414.9	414.6	414.4	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3
140°	426.6	426.1	425.8	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3
142.5°	437.6	437.2	436.8	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5
145°	452.9	452.5	452.1	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1
147.5°	466.2	465.8	465.5	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7
150°	474.7	474.2	473.8	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0
152.5°	482.1	481.5	480.9	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6
155°	492.1	491.5	490.8	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0
157.5°	501.1	500.3	499.7	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6
160°	506.0	505.4	504.8	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6
162.5°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3
165°	516.7	516.1	515.5	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1
167.5°	521.2	520.5	519.7	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9
170°	523.7	522.9	522.2	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3
172.5°	525.5	524.8	524.0	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1
175°	527.4	526.6	525.7	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2
177.5°	527.6	527.0	526.4	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331825-940

CATALOG NUMBER: S122RDIW-S865D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1637.4	1644.1	1654.0	1659.7	1669.2	1675.3	1678.6	1684.8	1688.1	1700.0	1712.3
5°	1546.0	1555.5	1572.0	1587.4	1604.0	1621.1	1633.5	1647.8	1660.8	1683.3	1706.9
7.5°	1441.2	1454.3	1480.0	1504.5	1533.3	1557.6	1579.0	1603.3	1625.0	1657.2	1690.7
10°	1362.6	1385.6	1419.4	1442.4	1480.3	1504.6	1538.3	1565.0	1595.1	1637.7	1675.6
12.5°	1294.9	1322.7	1349.8	1381.9	1415.9	1456.3	1493.3	1527.5	1563.4	1607.4	1651.9
15°	1172.1	1212.3	1254.3	1286.8	1333.0	1375.6	1418.8	1464.9	1508.7	1561.4	1619.3
17.5°	1014.0	1060.6	1131.2	1187.0	1241.2	1283.9	1337.4	1393.2	1444.8	1508.3	1572.9
20°	942.5	976.9	1024.8	1099.9	1181.5	1227.1	1281.6	1343.1	1402.2	1471.4	1540.7
22.5°	885.2	915.8	954.2	1012.8	1103.9	1166.0	1222.8	1285.3	1354.0	1424.6	1501.4
25°	803.4	824.7	865.0	912.3	975.1	1077.4	1139.5	1202.2	1276.8	1352.5	1440.1
27.5°	742.1	761.3	787.4	832.6	879.2	952.7	1051.5	1119.9	1194.2	1279.4	1370.3
30°	695.2	717.6	746.6	778.6	829.5	886.9	985.7	1065.0	1138.4	1225.9	1322.9
32.5°	661.1	678.9	703.6	736.0	778.4	833.4	912.3	1008.6	1080.1	1172.4	1273.7
35°	605.3	626.0	646.1	676.9	711.1	761.4	821.2	924.2	995.1	1086.3	1188.0
37.5°	559.2	571.9	594.1	618.5	654.7	692.2	744.0	836.3	913.2	1002.6	1106.8
40°	524.2	540.2	556.8	584.0	613.6	649.6	700.5	769.2	857.3	944.9	1046.6
42.5°	490.2	510.3	527.9	546.1	578.5	614.7	656.0	714.3	804.3	887.2	986.1
45°	449.1	462.1	480.5	500.5	527.2	557.9	594.6	645.5	731.9	803.4	896.3
47.5°	401.3	420.4	432.3	451.9	477.2	506.6	540.6	584.7	654.6	721.7	807.9
50°	368.6	388.2	405.3	423.0	445.5	473.9	502.3	544.9	601.1	671.5	752.0
52.5°	340.6	357.8	374.5	392.3	414.3	440.3	467.3	504.7	552.9	617.6	695.7
55°	302.4	313.0	330.1	347.9	367.4	392.3	418.3	449.7	491.1	545.5	608.9
57.5°	263.1	275.4	289.0	306.8	326.6	345.6	369.1	397.4	430.2	479.4	533.6
60°	240.8	250.3	261.5	279.8	298.2	315.3	337.9	361.5	392.3	434.9	481.0
62.5°	216.2	225.2	235.5	251.5	269.3	285.1	304.7	329.8	355.8	394.7	435.1
65°	175.1	188.2	198.2	212.4	227.2	243.8	259.1	279.3	302.4	333.1	369.2
67.5°	145.2	151.9	161.1	174.1	189.2	203.4	217.9	233.7	253.7	277.5	306.1
70°	132.0	134.3	136.1	148.5	162.7	176.9	190.5	205.3	222.5	242.0	266.8
72.5°	116.3	118.7	120.9	126.3	137.6	151.9	165.9	176.9	193.1	209.3	229.4
75°	92.3	95.9	97.6	100.6	104.7	114.2	127.2	137.9	147.3	159.7	175.8
77.5°	70.3	72.3	74.2	77.3	79.9	84.3	91.6	101.2	110.0	117.3	128.2
80°	55.6	56.2	58.6	59.7	63.3	66.3	69.8	77.5	86.4	89.3	97.0
82.5°	41.9	42.4	44.4	45.6	47.2	49.7	54.2	56.2	63.2	67.1	72.0
85°	23.1	22.5	24.3	24.3	25.4	26.7	27.8	30.8	32.5	37.3	38.4
87.5°	8.7	8.6	9.0	8.8	8.6	9.5	9.8	10.1	10.9	12.1	13.8
90°	8.0	7.6	7.0	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4
92.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7
95°	15.2	14.9	14.3	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8
97.5°	20.2	19.9	18.5	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1
100°	22.4	21.8	20.2	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5
102.5°	23.2	22.3	34.4	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6
105°	24.2	23.3	46.4	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8
107.5°	31.6	32.5	60.3	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1
110°	58.2	66.7	91.1	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8



TEST NUMBER: P331825-940

CATALOG NUMBER: S122RDIW-S865D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.3	168.3	174.2	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3
115°	195.9	235.1	233.0	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2
117.5°	251.0	260.5	259.0	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6
120°	280.4	279.4	277.9	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8
122.5°	298.0	297.4	295.7	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8
125°	322.6	322.1	320.5	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9
127.5°	345.2	344.3	343.1	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4
130°	359.5	358.6	357.8	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4
132.5°	373.8	373.0	372.0	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6
135°	393.8	393.0	392.2	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4
137.5°	412.4	411.6	410.7	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5
140°	424.5	423.8	422.8	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6
142.5°	435.8	435.1	434.0	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6
145°	451.5	450.8	449.4	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8
147.5°	465.2	464.8	463.3	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8
150°	473.5	473.0	471.6	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6
152.5°	481.1	480.6	479.3	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8
155°	491.4	490.9	489.9	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7
157.5°	500.0	499.4	498.7	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1
160°	505.2	504.6	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6
162.5°	509.8	509.2	508.7	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5
165°	515.5	514.9	514.7	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0
167.5°	520.3	519.7	519.5	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9
170°	522.7	522.2	522.0	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7
172.5°	524.6	524.0	523.8	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5
175°	526.6	525.9	525.8	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9
177.5°	526.9	526.4	526.4	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331825-940

CATALOG NUMBER: S122RDIW-S865D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1712.7	1714.1	1723.6	1727.9	1736.4	1739.7	1743.5	1742.6	1742.6	1744.5	1757.7
5°	1716.4	1728.2	1746.0	1763.2	1779.7	1793.9	1803.4	1812.8	1816.4	1833.5	1849.0
7.5°	1710.2	1732.1	1761.4	1787.5	1818.9	1843.3	1863.8	1882.0	1894.6	1919.6	1945.2
10°	1702.2	1733.0	1766.1	1799.8	1843.0	1875.5	1908.7	1934.1	1942.4	1979.7	2001.0
12.5°	1686.1	1727.2	1769.4	1813.1	1855.3	1900.1	1936.6	1962.0	1991.2	2024.6	2064.0
15°	1662.0	1709.3	1764.3	1820.5	1880.9	1935.3	1974.3	2018.7	2050.7	2087.4	2121.6
17.5°	1627.3	1688.3	1758.2	1823.3	1893.1	1951.5	2005.3	2047.8	2070.3	2091.2	2096.3
20°	1599.8	1665.5	1747.8	1824.7	1894.5	1961.9	2015.2	2050.7	2056.6	2057.2	2025.9
22.5°	1570.0	1644.2	1730.3	1809.0	1892.6	1967.6	2009.0	2024.2	2000.7	1960.6	1900.0
25°	1515.2	1601.1	1701.0	1790.9	1882.0	1953.0	1967.3	1940.6	1858.4	1772.0	1662.6
27.5°	1455.8	1552.3	1659.5	1759.4	1856.5	1900.5	1869.9	1773.9	1625.8	1497.0	1341.0
30°	1412.3	1520.5	1625.9	1737.7	1827.7	1846.6	1776.2	1634.8	1462.0	1267.9	1112.3
32.5°	1362.6	1476.0	1591.8	1707.4	1782.7	1764.2	1647.9	1473.8	1271.2	1080.5	933.4
35°	1291.6	1408.7	1533.6	1649.6	1697.5	1617.6	1443.7	1217.0	1010.0	831.9	730.7
37.5°	1209.6	1337.1	1467.0	1573.4	1570.0	1436.9	1200.0	966.1	792.0	686.7	614.7
40°	1151.4	1280.3	1420.6	1510.5	1472.0	1298.7	1041.9	821.2	694.0	610.0	557.3
42.5°	1095.6	1224.9	1364.2	1435.7	1368.9	1155.7	899.9	727.0	622.1	556.5	513.8
45°	1000.5	1137.2	1266.1	1305.8	1186.2	951.4	727.7	602.4	532.5	483.9	454.4
47.5°	907.6	1042.1	1159.8	1160.5	998.8	771.5	613.9	521.3	461.6	424.1	402.6
50°	850.8	978.6	1077.4	1062.0	878.6	686.3	549.0	469.2	419.5	390.5	368.0
52.5°	786.9	910.9	996.5	952.7	776.9	604.0	490.8	423.7	382.5	357.4	337.2
55°	694.0	804.1	864.4	798.2	633.6	502.3	414.7	362.1	331.4	310.0	292.8
57.5°	602.8	693.6	731.6	654.3	521.9	416.5	350.9	311.3	280.8	265.6	256.6
60°	545.5	623.0	649.6	564.5	453.8	364.4	310.6	273.9	251.5	241.4	232.6
62.5°	489.2	552.5	563.5	485.4	395.6	319.1	272.8	241.7	226.9	217.2	208.8
65°	405.9	451.5	446.1	383.4	313.0	253.2	219.5	200.5	189.3	175.8	161.0
67.5°	334.1	361.9	345.2	298.2	238.9	196.8	174.8	160.4	146.5	133.6	130.2
70°	288.7	304.7	287.0	243.8	195.8	165.1	147.3	130.2	121.9	119.0	113.6
72.5°	245.2	250.7	231.6	194.6	159.3	136.7	119.4	109.8	105.3	102.8	99.4
75°	184.0	179.9	163.3	134.3	110.7	95.2	90.0	86.4	83.5	81.1	79.3
77.5°	129.2	123.1	108.4	89.4	77.0	69.7	66.5	64.6	63.2	62.0	60.2
80°	97.0	92.9	78.1	63.9	58.6	55.0	53.2	50.9	50.9	49.7	47.9
82.5°	71.0	66.3	53.5	46.8	43.9	41.7	40.5	39.1	38.6	38.8	37.5
85°	37.3	30.1	26.7	25.4	23.6	22.5	23.1	21.8	21.8	21.8	21.3
87.5°	11.6	9.5	9.2	8.8	9.5	9.6	9.3	9.5	10.1	9.6	10.3
90°	1.3	2.2	3.2	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5
92.5°	7.6	7.5	7.4	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3
95°	21.9	19.2	16.4	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7
97.5°	41.3	33.4	25.5	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6
100°	55.8	44.2	32.6	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1
102.5°	85.2	82.7	80.3	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1
105°	118.4	120.9	123.5	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1
107.5°	150.2	152.2	154.3	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7
110°	170.6	172.4	174.2	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.9	191.5	193.1	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5
115°	220.6	222.0	223.5	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8
117.5°	248.3	249.9	251.5	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5
120°	268.0	269.3	270.6	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4
122.5°	285.2	286.5	287.8	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5
125°	310.9	312.1	313.2	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2
127.5°	334.7	335.8	337.1	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1
130°	349.7	351.1	352.4	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5
132.5°	364.7	365.9	367.0	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6
135°	384.8	386.1	387.4	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7
137.5°	404.4	405.4	406.4	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3
140°	417.2	417.9	418.6	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3
142.5°	428.2	428.7	429.4	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5
145°	444.7	444.6	444.5	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1
147.5°	459.5	459.1	458.9	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7
150°	469.0	468.3	467.8	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0
152.5°	477.2	476.4	475.8	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6
155°	489.0	488.2	487.5	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0
157.5°	498.5	497.8	497.2	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6
160°	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6
162.5°	509.0	508.5	508.0	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3
165°	515.6	515.1	514.5	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1
167.5°	520.4	520.0	519.4	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9
170°	523.2	522.6	522.2	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3
172.5°	525.0	524.5	524.0	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1
175°	527.3	526.6	526.1	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2
177.5°	527.8	527.3	526.8	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1762.5	1768.6	1771.4	1771.4	1774.8	1773.3	1771.9
5°	1863.8	1875.0	1877.3	1888.0	1895.7	1893.3	1894.5
7.5°	1964.4	1982.5	2000.4	2008.6	2009.8	2014.6	2016.3
10°	2026.4	2041.2	2069.0	2064.8	2085.6	2097.4	2077.9
12.5°	2086.1	2106.0	2125.4	2130.7	2142.4	2146.2	2138.5
15°	2140.0	2150.7	2151.9	2148.9	2152.4	2149.5	2138.2
17.5°	2089.6	2072.3	2037.3	2020.7	2007.6	1988.2	1980.4
20°	2006.3	1955.4	1896.2	1872.6	1844.8	1790.4	1803.4
22.5°	1826.5	1768.4	1709.3	1640.2	1607.2	1555.6	1552.5
25°	1546.6	1446.6	1336.6	1259.6	1214.7	1163.2	1140.7
27.5°	1202.5	1076.6	986.4	940.8	899.2	858.4	856.8
30°	976.2	881.5	811.7	772.7	747.3	730.1	733.7
32.5°	822.9	758.0	711.0	678.5	659.7	646.8	646.6
35°	672.7	628.3	598.2	584.5	571.0	561.5	562.0
37.5°	575.7	549.0	532.3	517.2	508.7	504.1	501.5
40°	526.0	504.1	491.1	482.2	475.1	468.6	467.4
42.5°	486.7	468.6	455.6	448.6	441.9	437.4	436.1
45°	431.9	417.1	405.3	397.6	394.7	390.5	390.5
47.5°	384.2	369.7	360.4	355.6	350.5	347.8	347.7
50°	352.0	340.8	332.5	329.6	325.4	323.6	323.1
52.5°	323.2	314.8	308.9	306.8	305.1	302.8	303.2
55°	284.0	279.3	276.9	275.1	272.2	268.6	271.0
57.5°	251.0	246.9	240.6	235.0	232.3	229.8	230.8
60°	227.8	219.5	211.2	204.7	203.0	197.6	197.6
62.5°	198.4	186.8	176.6	173.0	171.2	168.7	168.3
65°	152.7	147.9	145.5	143.2	142.0	142.0	140.8
67.5°	126.5	124.6	122.0	121.5	120.2	119.8	119.5
70°	111.8	109.4	108.3	107.7	106.5	107.1	105.3
72.5°	97.6	95.8	95.5	94.0	93.3	93.4	92.0
75°	77.0	77.0	76.3	75.7	74.5	73.9	74.5
77.5°	59.2	59.3	58.2	58.1	58.0	58.1	57.5
80°	47.3	47.9	47.3	46.7	46.2	46.7	46.2
82.5°	37.4	36.6	36.5	36.3	36.2	35.8	35.8
85°	21.3	21.8	21.3	20.7	20.7	20.7	21.3
87.5°	9.8	9.9	10.0	10.0	10.1	10.1	9.6
90°	8.9	9.3	9.6	9.8	10.0	10.2	10.3
92.5°	9.5	9.7	9.9	10.0	10.1	10.2	10.3
95°	16.1	16.6	16.8	16.7	16.6	16.5	16.4
97.5°	21.0	21.2	21.5	21.6	21.7	21.8	21.8
100°	23.7	24.4	24.9	25.1	25.2	25.3	25.5
102.5°	25.0	25.9	26.4	26.7	26.9	27.1	27.4
105°	26.0	27.0	27.6	27.9	28.3	28.6	29.0
107.5°	29.7	28.7	28.4	28.8	29.2	29.4	29.8
110°	41.3	32.8	28.7	29.1	29.4	29.8	30.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	75.5	44.7	29.3	29.6	29.9	30.1	30.4
115°	117.5	78.3	55.6	49.6	43.4	37.4	31.2
117.5°	232.0	222.5	207.8	187.7	167.6	147.7	127.6
120°	282.4	283.5	278.2	266.8	255.4	243.9	232.5
122.5°	299.2	299.8	299.0	296.8	294.5	292.3	290.1
125°	323.9	324.4	324.9	325.1	325.4	325.7	325.8
127.5°	346.9	347.8	348.2	348.3	348.3	348.4	348.4
130°	361.4	362.4	362.8	362.7	362.7	362.6	362.5
132.5°	375.3	376.1	376.5	376.4	376.3	376.3	376.2
135°	395.5	396.4	396.6	396.5	396.4	396.2	396.0
137.5°	414.1	414.9	415.2	414.9	414.6	414.4	414.0
140°	426.1	426.9	427.0	426.6	426.1	425.8	425.3
142.5°	437.2	437.9	438.0	437.6	437.2	436.8	436.3
145°	452.6	453.3	453.3	452.9	452.5	452.1	451.7
147.5°	466.1	466.5	466.5	466.2	465.8	465.5	465.1
150°	474.5	475.0	475.1	474.7	474.2	473.8	473.4
152.5°	482.1	482.7	482.6	482.1	481.5	480.9	480.4
155°	492.4	492.9	492.8	492.1	491.5	490.8	490.2
157.5°	501.1	501.8	501.7	501.1	500.3	499.7	499.1
160°	506.1	506.7	506.6	506.0	505.4	504.8	504.3
162.5°	511.0	511.5	511.4	510.7	510.0	509.3	508.5
165°	516.7	517.3	517.3	516.7	516.1	515.5	514.9
167.5°	521.5	522.1	522.0	521.2	520.5	519.7	519.0
170°	524.0	524.5	524.4	523.7	522.9	522.2	521.4
172.5°	525.8	526.4	526.3	525.5	524.8	524.0	523.3
175°	527.7	528.3	528.2	527.4	526.6	525.7	524.9
177.5°	527.8	528.3	528.2	527.6	527.0	526.4	525.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7

(END OF REPORT)