

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: P331556-830

Luminaire Tested: **S122DIW-S865D435U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331556-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D435U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5007.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

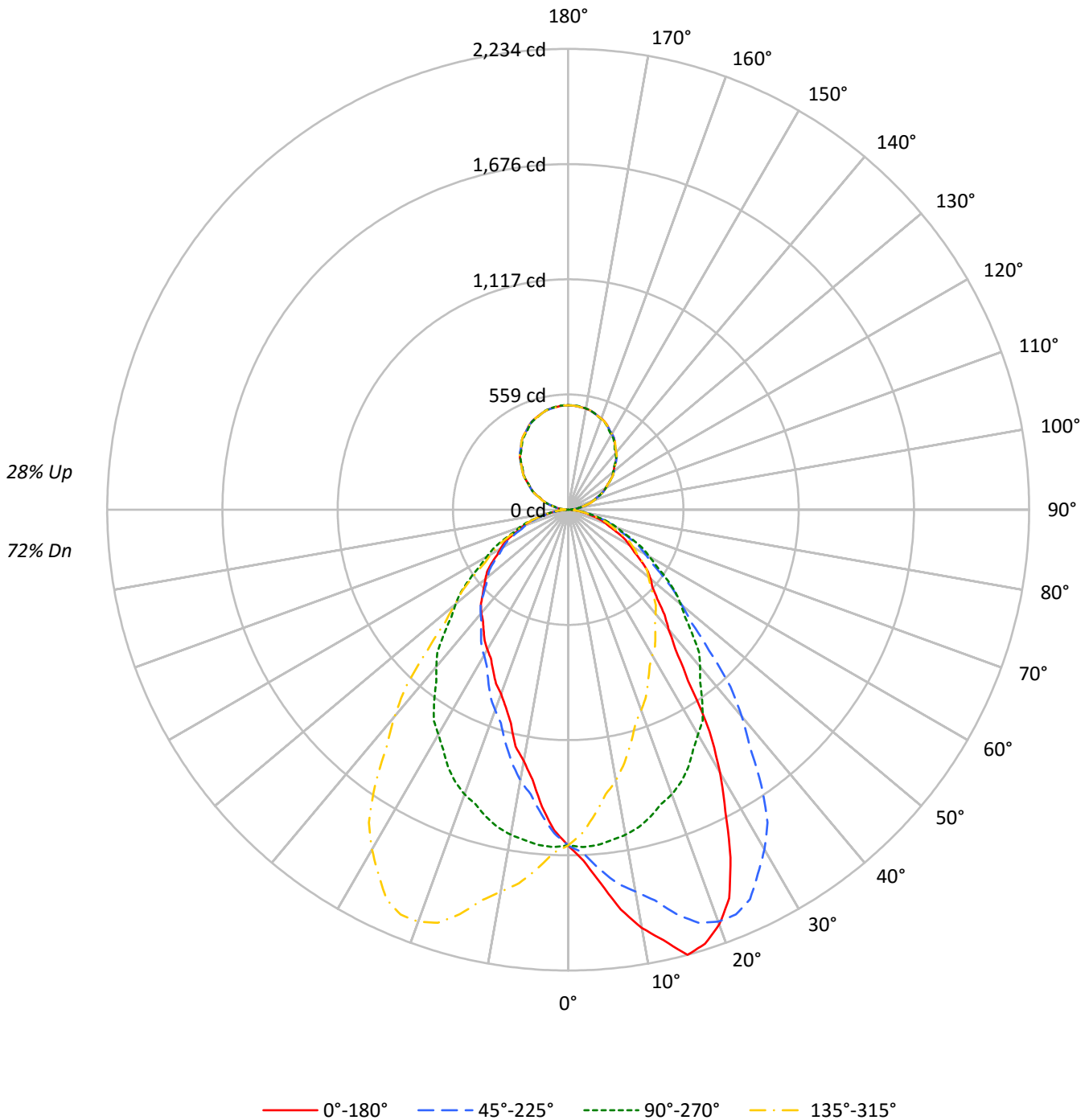
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	68	67	66	62
2	95	87	81	76	90	83	78	73	75	71	67	68	65	62	61	59	56	53
3	87	78	70	64	82	74	67	62	67	62	58	61	57	53	55	52	49	46
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	49	46	43	40
5	74	62	54	48	70	59	52	47	54	48	44	49	44	41	45	41	38	35
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34	31
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	38	33	30	28
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27	25
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23
10	52	40	32	27	49	38	31	27	35	29	25	33	28	24	30	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26274	26274	26274	26274
5°	29457	26446	23436	26446
10°	33755	26230	20282	26230
15°	37342	25748	17919	25748
20°	36773	25232	16333	25232
25°	33157	24545	15330	24545
30°	27401	23448	14600	23448
35°	19969	22300	14079	22300
40°	15951	20946	13789	20946
45°	13938	19379	13394	19379
50°	13102	17862	13132	17862
55°	12076	16321	12780	16321
60°	11066	14683	12239	14683
65°	10082	13211	11706	13211
70°	9153	11783	10924	11783
75°	8116	10181	9676	10181
80°	6974	8433	7792	8433
85°	6243	6243	4631	6243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	3.1
10°-20°	450.6	9.0
20°-30°	653.9	13.1
30°-40°	690.0	13.8
40°-50°	611.0	12.2
50°-60°	487.6	9.7
60°-70°	331.4	6.6
70°-80°	169.9	3.4
80°-90°	43.0	0.9
90°-100°	32.1	0.6
100°-110°	99.6	2.0
110°-120°	170.2	3.4
120°-130°	223.9	4.5
130°-140°	251.3	5.0
140°-150°	246.4	4.9
150°-160°	206.6	4.1
160°-170°	137.1	2.7
170°-180°	47.9	1.0
0°-30°	1259.4	25.2
0°-40°	1949.5	38.9
0°-60°	3048.0	60.9
0°-90°	3592.3	71.7
90°-120°	301.9	6.0
90°-150°	1023.3	20.4
90°-180°	1415.0	28.3
0°-180°	5007.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1627	1627	1627	1627	1627	
5°	1818	1632	1446	1632	1818	181
15°	2234	1540	1072	1540	2234	616
25°	1861	1378	860	1378	1861	841
35°	1013	1131	714	1131	1013	659
45°	610	849	587	849	610	480
55°	429	580	454	580	429	385
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	37
90°	14	0	14	0	14	8
95°	26	22	26	22	26	30
105°	95	92	95	92	95	100
115°	171	171	171	171	171	169
125°	249	248	249	248	249	222
135°	325	322	325	322	325	250
145°	394	390	394	390	394	246
155°	450	446	450	446	450	207
165°	486	486	486	486	486	137
175°	504	505	504	505	504	48
180°	506	506	506	506	506	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1702.4	1702.9	1703.9	1695.9	1694.9	1694.9	1687.9	1681.9	1674.9	1665.4	1666.4
5°	1817.5	1824.4	1826.8	1819.4	1808.1	1806.9	1796.2	1778.7	1762.5	1749.3	1739.9
7.5°	1954.8	1957.6	1951.4	1941.5	1933.2	1918.2	1898.4	1879.1	1851.9	1827.0	1808.5
10°	2058.9	2062.7	2052.0	2037.6	2025.7	2008.2	1979.4	1950.0	1914.4	1880.0	1852.5
12.5°	2138.0	2147.2	2133.5	2131.7	2111.3	2087.3	2053.0	2038.2	1988.0	1940.0	1910.5
15°	2234.0	2233.4	2234.7	2222.7	2207.7	2203.9	2167.8	2128.4	2057.7	2029.5	1980.8
17.5°	2206.2	2215.7	2220.2	2220.0	2219.6	2217.2	2205.6	2180.8	2145.3	2099.7	2043.3
20°	2140.2	2152.7	2154.6	2169.0	2177.1	2187.7	2192.1	2185.2	2163.3	2125.2	2076.4
22.5°	2038.2	2041.6	2047.5	2069.9	2087.5	2114.2	2128.1	2151.2	2142.8	2124.2	2083.4
25°	1861.2	1855.0	1876.9	1888.1	1928.8	1971.3	2002.0	2035.7	2065.8	2083.9	2072.0
27.5°	1648.9	1639.5	1672.3	1702.1	1735.1	1781.2	1829.0	1885.4	1932.3	1990.9	2011.1
30°	1469.7	1475.4	1506.7	1538.5	1588.6	1653.6	1707.4	1769.3	1836.3	1901.9	1947.6
32.5°	1276.6	1298.3	1318.1	1366.9	1411.0	1483.5	1562.3	1639.7	1723.2	1797.8	1868.5
35°	1013.1	1038.2	1065.7	1101.4	1163.3	1235.2	1312.1	1416.5	1530.4	1632.4	1716.2
37.5°	852.8	848.9	864.6	890.3	940.5	998.5	1087.1	1190.3	1324.3	1444.1	1562.3
40°	756.8	754.2	765.5	789.3	827.5	870.0	947.5	1038.2	1162.6	1309.0	1449.7
42.5°	690.7	692.2	698.4	715.2	741.4	776.4	834.4	911.6	1025.6	1163.4	1314.7
45°	610.4	614.8	621.7	629.8	644.8	673.5	706.1	761.1	851.2	966.3	1115.1
47.5°	552.6	552.7	559.8	566.8	575.8	592.0	618.5	653.1	716.6	810.3	938.3
50°	521.6	517.3	522.3	527.8	537.2	548.5	566.0	598.5	641.0	716.7	823.7
52.5°	483.6	483.7	488.2	490.3	498.7	510.0	525.9	548.5	587.0	646.2	734.1
55°	429.0	432.2	434.7	438.4	445.9	454.0	466.6	481.5	511.6	556.0	621.0
57.5°	377.8	378.7	381.3	388.4	393.1	400.7	412.6	426.1	445.6	478.5	527.4
60°	342.7	342.7	347.7	350.8	357.1	364.6	374.0	387.1	404.6	431.5	471.0
62.5°	310.8	310.2	312.2	317.4	322.1	329.1	338.5	349.6	366.1	390.0	422.4
65°	263.9	262.7	266.5	267.7	272.7	279.6	287.1	299.0	312.1	329.6	358.4
67.5°	218.9	220.4	222.4	224.8	227.5	234.8	239.8	248.2	259.3	273.8	293.3
70°	193.9	193.9	193.9	195.8	199.5	203.3	208.3	215.2	225.7	238.3	255.8
72.5°	165.9	167.9	169.8	168.7	173.5	175.8	181.7	185.6	195.8	203.8	219.2
75°	130.1	130.1	130.1	133.2	135.1	137.0	140.7	144.5	149.5	159.5	167.6
77.5°	97.1	96.8	97.5	98.2	100.2	102.5	103.6	107.0	111.6	116.2	123.1
80°	75.0	76.3	76.9	78.1	78.1	79.5	80.0	84.5	87.6	90.7	95.1
82.5°	58.1	58.2	58.4	58.6	59.2	59.9	61.5	63.0	64.0	66.6	70.0
85°	33.7	33.2	33.2	34.4	33.7	33.7	35.1	36.3	36.3	36.9	38.7
87.5°	15.9	15.9	16.4	15.8	15.8	16.3	16.4	15.9	16.5	17.0	17.1
90°	14.5	14.4	14.3	14.2	14.1	14.2	14.4	14.6	14.8	15.0	12.8
92.5°	13.9	13.9	13.8	13.8	13.8	13.8	13.7	13.7	13.6	13.6	13.1
95°	26.5	26.7	26.9	27.1	27.2	27.3	27.3	27.3	27.3	27.3	27.1
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.6
100°	58.5	58.6	58.7	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.6
102.5°	72.9	73.0	73.0	73.1	73.2	73.2	73.1	73.0	73.0	73.0	72.6
105°	94.8	94.8	94.8	94.8	94.8	94.7	94.5	94.3	94.2	94.0	93.8
107.5°	115.5	115.9	116.3	116.8	117.3	117.4	117.3	117.3	117.2	117.1	117.1
110°	131.5	131.8	132.1	132.3	132.6	132.8	132.8	132.8	132.8	132.8	132.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	146.9	147.1	147.3	147.5	147.7	148.0	148.2	148.5	148.6	148.8	148.9
115°	170.8	171.1	171.4	171.6	171.9	172.1	172.2	172.3	172.4	172.5	172.7
117.5°	193.6	193.9	194.2	194.4	194.7	195.0	195.2	195.5	195.7	196.0	196.4
120°	209.7	210.0	210.3	210.6	210.8	210.9	210.9	210.9	210.9	210.9	211.7
122.5°	225.4	225.6	225.8	226.0	226.2	226.4	226.7	226.9	227.2	227.3	227.9
125°	249.4	249.5	249.6	249.7	249.8	250.0	250.2	250.5	250.8	251.1	251.4
127.5°	271.3	271.5	271.8	272.1	272.5	272.8	273.1	273.4	273.8	274.2	274.5
130°	287.0	287.4	287.8	288.1	288.5	288.8	289.0	289.2	289.4	289.5	289.7
132.5°	302.0	302.3	302.6	302.9	303.2	303.6	304.0	304.4	304.8	305.2	305.2
135°	325.4	325.6	325.9	326.2	326.5	326.7	326.8	326.9	327.0	327.1	326.9
137.5°	346.6	346.9	347.3	347.7	348.1	348.4	348.4	348.5	348.6	348.6	348.4
140°	361.3	361.7	362.0	362.4	362.8	363.0	363.0	363.0	363.0	363.0	362.5
142.5°	374.6	374.9	375.3	375.7	376.1	376.3	376.2	376.1	376.1	376.0	375.6
145°	394.5	394.9	395.3	395.7	396.1	396.2	396.2	396.1	396.0	395.9	395.3
147.5°	412.5	412.7	413.1	413.5	413.9	414.0	413.8	413.5	413.3	413.1	412.7
150°	424.0	424.3	424.6	424.9	425.2	425.2	424.9	424.6	424.3	424.0	423.7
152.5°	435.0	435.4	435.6	436.0	436.4	436.4	436.0	435.6	435.4	435.0	434.5
155°	449.7	450.0	450.3	450.5	450.8	450.7	450.3	449.8	449.3	448.8	448.6
157.5°	462.3	462.8	463.2	463.6	464.1	464.0	463.4	462.7	462.1	461.5	461.3
160°	470.1	470.5	470.9	471.3	471.6	471.6	471.0	470.4	469.9	469.3	469.2
162.5°	477.0	477.4	477.9	478.3	478.8	478.7	478.1	477.4	476.7	476.2	476.1
165°	486.0	486.4	486.9	487.4	487.9	487.8	487.1	486.4	485.8	485.1	485.1
167.5°	493.3	493.8	494.3	494.7	495.3	495.2	494.6	493.9	493.2	492.6	492.6
170°	497.1	497.7	498.2	498.8	499.4	499.3	498.6	497.9	497.3	496.6	496.7
172.5°	500.1	500.7	501.2	501.8	502.4	502.4	501.7	501.1	500.4	499.7	499.8
175°	503.5	504.1	504.6	505.2	505.8	505.7	505.0	504.4	503.7	503.0	503.2
177.5°	505.0	505.5	506.0	506.3	506.8	506.8	506.3	506.0	505.5	505.0	505.1
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1669.9	1665.8	1663.4	1654.4	1646.3	1638.3	1635.9	1636.8	1625.9	1615.3	1610.8
5°	1734.9	1722.4	1710.5	1693.7	1673.7	1651.7	1640.5	1631.7	1609.9	1586.1	1572.3
7.5°	1793.2	1775.3	1752.5	1720.7	1691.5	1657.1	1635.2	1615.8	1583.8	1550.3	1529.7
10°	1828.7	1804.3	1774.9	1736.2	1700.5	1658.6	1629.2	1599.9	1562.3	1522.3	1497.2
12.5°	1859.3	1826.4	1797.4	1747.7	1705.5	1653.1	1618.3	1576.8	1537.3	1489.8	1465.3
15°	1931.9	1871.2	1816.2	1759.9	1708.0	1634.8	1596.1	1540.4	1488.5	1429.7	1401.6
17.5°	1988.1	1920.0	1833.2	1761.7	1701.1	1620.1	1563.2	1496.5	1435.1	1367.9	1329.6
20°	2020.2	1941.9	1848.7	1763.7	1691.1	1598.6	1536.6	1468.5	1396.6	1320.9	1279.6
22.5°	2039.1	1956.9	1864.7	1756.1	1671.1	1581.0	1503.2	1428.4	1355.6	1273.8	1230.6
25°	2045.1	1970.1	1872.5	1749.9	1646.2	1544.2	1450.4	1377.8	1289.6	1213.3	1150.2
27.5°	2015.3	1961.5	1867.7	1738.1	1617.2	1498.0	1393.5	1311.3	1218.2	1135.4	1071.9
30°	1978.9	1947.6	1856.2	1726.2	1594.2	1466.0	1350.9	1257.7	1165.2	1081.4	1016.3
32.5°	1922.3	1915.5	1835.2	1709.1	1569.7	1425.5	1306.4	1212.2	1109.7	1027.3	965.3
35°	1811.2	1841.3	1790.5	1671.1	1523.5	1367.8	1239.0	1131.4	1025.1	946.2	888.1
37.5°	1662.4	1736.9	1723.6	1615.4	1461.2	1305.0	1162.8	1050.4	949.0	869.5	812.4
40°	1559.8	1654.8	1668.6	1572.9	1417.2	1256.5	1105.8	993.8	894.9	822.5	764.9
42.5°	1449.7	1560.8	1598.6	1521.9	1369.1	1205.4	1054.7	938.8	840.9	770.4	719.3
45°	1265.3	1412.2	1480.4	1436.6	1289.0	1121.3	966.3	848.7	759.9	693.6	654.2
47.5°	1092.7	1253.3	1345.0	1329.6	1199.8	1033.8	880.4	767.6	681.2	628.3	593.0
50°	970.6	1135.8	1246.4	1251.5	1135.8	971.3	817.5	711.1	631.7	582.3	553.5
52.5°	864.6	1022.2	1142.9	1169.4	1064.2	906.3	760.9	655.1	585.1	539.7	514.0
55°	726.1	859.3	993.2	1042.0	957.5	807.4	673.0	579.8	514.1	482.9	460.3
57.5°	603.7	714.7	838.3	892.2	840.2	711.7	585.6	504.7	451.4	424.0	406.8
60°	539.1	626.7	736.8	801.2	756.1	641.7	531.6	454.7	410.9	386.5	370.2
62.5°	479.1	556.7	649.7	708.6	684.1	576.2	477.6	409.6	371.8	349.0	337.2
65°	395.3	456.6	528.5	582.9	566.7	484.7	404.1	345.8	315.8	297.7	288.3
67.5°	325.5	369.8	419.6	467.3	454.2	396.2	331.3	286.1	263.7	248.1	242.4
70°	281.4	315.2	359.6	397.8	387.1	339.6	288.3	249.6	230.2	217.1	211.4
72.5°	239.4	267.2	301.0	332.2	325.1	285.6	242.8	213.5	198.6	186.5	181.9
75°	180.8	202.0	222.6	243.3	241.4	210.8	185.8	163.2	151.4	141.9	140.1
77.5°	133.5	145.3	159.4	171.6	168.2	150.7	131.1	118.2	109.4	103.2	102.2
80°	102.0	108.9	118.9	127.6	123.2	115.7	100.1	90.7	84.5	78.1	75.7
82.5°	73.9	80.8	86.8	91.5	88.2	81.2	71.5	65.1	61.5	57.1	56.2
85°	38.7	42.5	45.1	46.3	45.1	40.6	36.3	33.7	30.6	28.7	28.2
87.5°	17.2	16.8	16.3	17.0	15.3	15.1	12.8	11.1	10.8	10.6	9.8
90°	10.7	8.7	6.6	5.0	3.9	2.7	1.6	0.5	1.6	2.7	3.9
92.5°	12.6	12.1	11.6	10.9	10.1	9.2	8.5	7.6	8.5	9.2	10.1
95°	27.0	26.8	26.6	26.0	25.1	24.1	23.2	22.2	23.2	24.1	25.1
97.5°	45.2	44.9	44.5	43.9	43.1	42.2	41.4	40.5	41.4	42.2	43.1
100°	58.3	58.1	57.8	57.3	56.6	55.7	55.0	54.2	55.0	55.7	56.6
102.5°	72.2	71.8	71.5	71.0	70.4	69.7	69.2	68.6	69.2	69.7	70.4
105°	93.6	93.4	93.2	92.9	92.7	92.4	92.1	91.8	92.1	92.4	92.7
107.5°	117.1	117.1	117.1	116.9	116.5	116.0	115.6	115.2	115.6	116.0	116.5
110°	132.8	132.8	132.8	132.5	132.0	131.4	130.8	130.3	130.8	131.4	132.0



TEST NUMBER: P331556-830

CATALOG NUMBER: S122DIW-S865D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	149.0	149.1	149.2	148.9	148.4	147.8	147.2	146.7	147.2	147.8	148.4
115°	172.9	173.1	173.2	173.1	172.5	171.9	171.4	170.8	171.4	171.9	172.5
117.5°	197.0	197.6	198.0	197.9	197.2	196.4	195.7	194.9	195.7	196.4	197.2
120°	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9	211.7	212.4	213.2
122.5°	228.4	228.9	229.5	229.3	228.4	227.4	226.6	225.6	226.6	227.4	228.4
125°	251.7	251.9	252.2	251.9	251.1	250.2	249.4	248.5	249.4	250.2	251.1
127.5°	274.8	275.2	275.5	275.1	274.1	273.0	271.9	270.8	271.9	273.0	274.1
130°	289.9	290.1	290.3	289.7	288.5	287.3	286.1	284.8	286.1	287.3	288.5
132.5°	305.2	305.1	305.1	304.5	303.6	302.6	301.5	300.6	301.5	302.6	303.6
135°	326.7	326.5	326.3	325.7	324.7	323.7	322.6	321.6	322.6	323.7	324.7
137.5°	348.2	347.9	347.6	347.0	346.2	345.3	344.5	343.7	344.5	345.3	346.2
140°	362.0	361.6	361.1	360.4	359.6	358.7	357.9	357.0	357.9	358.7	359.6
142.5°	375.3	374.9	374.7	374.1	373.2	372.4	371.6	370.7	371.6	372.4	373.2
145°	394.7	394.2	393.6	392.9	392.3	391.6	391.0	390.3	391.0	391.6	392.3
147.5°	412.4	412.0	411.6	411.0	410.2	409.4	408.6	407.8	408.6	409.4	410.2
150°	423.3	422.9	422.5	422.1	421.5	420.9	420.4	419.8	420.4	420.9	421.5
152.5°	434.0	433.6	433.2	432.6	432.1	431.5	430.9	430.4	430.9	431.5	432.1
155°	448.3	448.0	447.7	447.4	447.1	446.8	446.5	446.2	446.5	446.8	447.1
157.5°	461.1	460.9	460.7	460.6	460.4	460.2	460.1	459.9	460.1	460.2	460.4
160°	469.1	469.0	468.9	468.8	468.6	468.4	468.3	468.1	468.3	468.4	468.6
162.5°	476.0	475.9	475.8	475.7	475.6	475.6	475.6	475.5	475.6	475.6	475.6
165°	485.1	485.1	485.1	485.1	485.2	485.3	485.4	485.5	485.4	485.3	485.2
167.5°	492.6	492.6	492.6	492.8	493.0	493.3	493.6	493.9	493.6	493.3	493.0
170°	496.8	496.9	497.0	497.2	497.5	497.8	498.0	498.3	498.0	497.8	497.5
172.5°	499.9	500.0	500.1	500.3	500.6	500.9	501.1	501.4	501.1	500.9	500.6
175°	503.4	503.6	503.8	504.1	504.4	504.6	504.9	505.2	504.9	504.6	504.4
177.5°	505.3	505.5	505.6	505.8	506.1	506.2	506.5	506.7	506.5	506.2	506.1
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331556-830

CATALOG NUMBER: S122DIW-S865D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1605.8	1602.8	1592.3	1586.9	1577.8	1569.3	1563.8	1566.3	1568.3	1567.3	1565.8
5°	1559.8	1547.9	1529.7	1514.1	1502.9	1482.2	1473.5	1469.1	1465.4	1460.9	1456.6
7.5°	1505.1	1486.3	1460.2	1437.9	1416.9	1391.3	1376.7	1367.9	1359.0	1349.1	1340.3
10°	1466.0	1439.7	1412.2	1380.9	1355.9	1332.8	1312.1	1298.4	1285.9	1273.9	1265.3
12.5°	1424.9	1394.7	1360.7	1317.9	1290.3	1257.3	1254.1	1229.8	1210.3	1203.0	1192.7
15°	1359.7	1317.1	1273.9	1223.3	1201.5	1171.4	1152.6	1133.9	1117.0	1105.1	1102.0
17.5°	1285.5	1230.5	1187.5	1151.1	1115.2	1084.5	1067.2	1052.3	1038.3	1022.5	1020.3
20°	1229.0	1181.4	1134.5	1102.6	1065.7	1034.4	1013.1	998.2	986.3	976.9	968.7
22.5°	1175.4	1123.4	1080.4	1045.6	1009.2	983.9	967.1	952.6	942.7	932.4	924.7
25°	1089.5	1048.9	1001.9	962.5	932.5	916.2	902.5	889.9	883.7	876.8	868.1
27.5°	1014.3	969.1	925.3	894.8	868.4	853.9	844.2	835.7	829.8	825.8	820.8
30°	961.3	915.6	881.2	851.2	829.3	814.9	808.7	803.7	796.8	794.3	791.8
32.5°	910.2	869.1	839.7	813.7	792.8	783.4	777.7	773.2	767.8	765.3	760.3
35°	838.1	803.7	774.9	760.5	743.7	735.5	731.1	724.9	719.8	717.4	716.7
37.5°	770.2	740.3	721.3	702.9	695.7	690.7	684.8	680.4	678.9	678.5	678.0
40°	726.1	701.7	684.9	669.9	666.7	659.2	654.2	650.4	650.4	651.1	650.4
42.5°	686.1	664.2	649.3	636.3	632.6	628.2	623.2	622.9	624.0	626.0	624.0
45°	625.4	609.8	599.2	592.9	586.0	581.6	581.0	582.9	583.5	584.2	586.0
47.5°	569.7	559.2	549.6	542.7	539.7	538.9	538.2	541.5	544.5	545.6	548.5
50°	536.6	524.7	516.6	512.2	509.7	508.5	509.7	513.5	515.9	519.1	520.9
52.5°	499.5	491.2	485.6	482.2	481.2	481.9	482.2	486.4	490.5	491.5	492.5
55°	448.5	442.1	440.9	435.3	437.8	437.2	440.3	442.8	446.6	450.3	450.9
57.5°	397.4	392.4	389.0	389.6	390.3	393.0	395.7	400.0	404.1	408.0	408.4
60°	363.4	360.9	359.0	359.0	360.2	364.0	367.1	371.5	374.0	376.5	378.3
62.5°	332.3	329.9	328.0	328.9	332.2	334.5	338.1	340.4	343.0	345.4	346.4
65°	283.3	282.1	284.0	285.2	285.8	289.0	293.3	295.2	297.7	299.0	303.3
67.5°	238.2	238.4	238.2	239.9	243.6	244.3	248.5	252.8	253.3	255.7	258.5
70°	207.6	208.9	210.2	211.4	214.5	215.7	218.9	220.7	223.3	225.2	227.1
72.5°	179.6	179.8	181.2	180.9	183.5	186.2	188.9	190.8	193.2	195.7	197.5
75°	138.2	138.2	139.5	140.1	143.3	146.4	145.7	146.9	149.5	151.9	153.3
77.5°	100.9	99.5	100.9	101.6	102.5	105.2	105.7	107.4	110.3	109.4	110.8
80°	76.9	75.0	76.9	77.6	77.6	80.7	80.7	81.9	83.8	81.9	83.8
82.5°	55.0	54.0	55.4	55.5	56.6	56.6	57.7	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.2	28.2	27.5	27.5	28.7	26.9
87.5°	9.5	9.3	9.2	9.6	9.6	9.5	9.0	9.0	8.9	7.8	7.8
90°	5.0	6.6	8.7	10.7	12.8	15.0	14.8	14.6	14.4	14.2	14.1
92.5°	10.9	11.6	12.1	12.6	13.1	13.6	13.6	13.7	13.7	13.8	13.8
95°	26.0	26.6	26.8	27.0	27.1	27.3	27.3	27.3	27.3	27.3	27.2
97.5°	43.9	44.5	44.9	45.2	45.6	45.9	45.9	45.9	45.9	45.9	45.9
100°	57.3	57.8	58.1	58.3	58.6	58.9	58.9	58.9	58.9	58.9	58.9
102.5°	71.0	71.5	71.8	72.2	72.6	73.0	73.0	73.0	73.1	73.2	73.2
105°	92.9	93.2	93.4	93.6	93.8	94.0	94.2	94.3	94.5	94.7	94.8
107.5°	116.9	117.1	117.1	117.1	117.1	117.1	117.2	117.3	117.3	117.4	117.3
110°	132.5	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.6



TEST NUMBER: P331556-830

CATALOG NUMBER: S122DIW-S865D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	148.9	149.2	149.1	149.0	148.9	148.8	148.6	148.5	148.2	148.0	147.7
115°	173.1	173.2	173.1	172.9	172.7	172.5	172.4	172.3	172.2	172.1	171.9
117.5°	197.9	198.0	197.6	197.0	196.4	196.0	195.7	195.5	195.2	195.0	194.7
120°	214.0	214.0	213.2	212.4	211.7	210.9	210.9	210.9	210.9	210.9	210.8
122.5°	229.3	229.5	228.9	228.4	227.9	227.3	227.2	226.9	226.7	226.4	226.2
125°	251.9	252.2	251.9	251.7	251.4	251.1	250.8	250.5	250.2	250.0	249.8
127.5°	275.1	275.5	275.2	274.8	274.5	274.2	273.8	273.4	273.1	272.8	272.5
130°	289.7	290.3	290.1	289.9	289.7	289.5	289.4	289.2	289.0	288.8	288.5
132.5°	304.5	305.1	305.1	305.2	305.2	305.2	304.8	304.4	304.0	303.6	303.2
135°	325.7	326.3	326.5	326.7	326.9	327.1	327.0	326.9	326.8	326.7	326.5
137.5°	347.0	347.6	347.9	348.2	348.4	348.6	348.6	348.5	348.4	348.4	348.1
140°	360.4	361.1	361.6	362.0	362.5	363.0	363.0	363.0	363.0	363.0	362.8
142.5°	374.1	374.7	374.9	375.3	375.6	376.0	376.1	376.1	376.2	376.3	376.1
145°	392.9	393.6	394.2	394.7	395.3	395.9	396.0	396.1	396.2	396.2	396.1
147.5°	411.0	411.6	412.0	412.4	412.7	413.1	413.3	413.5	413.8	414.0	413.9
150°	422.1	422.5	422.9	423.3	423.7	424.0	424.3	424.6	424.9	425.2	425.2
152.5°	432.6	433.2	433.6	434.0	434.5	435.0	435.4	435.6	436.0	436.4	436.4
155°	447.4	447.7	448.0	448.3	448.6	448.8	449.3	449.8	450.3	450.7	450.8
157.5°	460.6	460.7	460.9	461.1	461.3	461.5	462.1	462.7	463.4	464.0	464.1
160°	468.8	468.9	469.0	469.1	469.2	469.3	469.9	470.4	471.0	471.6	471.6
162.5°	475.7	475.8	475.9	476.0	476.1	476.2	476.7	477.4	478.1	478.7	478.8
165°	485.1	485.1	485.1	485.1	485.1	485.1	485.8	486.4	487.1	487.8	487.9
167.5°	492.8	492.6	492.6	492.6	492.6	492.6	493.2	493.9	494.6	495.2	495.3
170°	497.2	497.0	496.9	496.8	496.7	496.6	497.3	497.9	498.6	499.3	499.4
172.5°	500.3	500.1	500.0	499.9	499.8	499.7	500.4	501.1	501.7	502.4	502.4
175°	504.1	503.8	503.6	503.4	503.2	503.0	503.7	504.4	505.0	505.7	505.8
177.5°	505.8	505.6	505.5	505.3	505.1	505.0	505.5	506.0	506.3	506.8	506.8
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331556-830

CATALOG NUMBER: S122DIW-S865D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1560.8	1559.8	1559.8	1555.3	1559.8	1559.8	1560.8	1565.8	1567.3	1568.3	1566.3
5°	1447.8	1446.0	1442.8	1446.0	1442.8	1446.0	1447.8	1456.6	1460.9	1465.4	1469.1
7.5°	1336.1	1328.6	1327.5	1320.1	1327.5	1328.6	1336.1	1340.3	1349.1	1359.0	1367.9
10°	1254.6	1249.6	1249.0	1237.1	1249.0	1249.6	1254.6	1265.3	1273.9	1285.9	1298.4
12.5°	1192.6	1180.5	1182.9	1176.0	1182.9	1180.5	1192.6	1192.7	1203.0	1210.3	1229.8
15°	1085.1	1085.1	1082.6	1072.0	1082.6	1085.1	1085.1	1102.0	1105.1	1117.0	1133.9
17.5°	1008.0	1006.6	1000.7	1003.7	1000.7	1006.6	1008.0	1020.3	1022.5	1038.3	1052.3
20°	961.9	958.2	950.6	950.6	950.6	958.2	961.9	968.7	976.9	986.3	998.2
22.5°	918.4	918.1	910.1	912.6	910.1	918.1	918.4	924.7	932.4	942.7	952.6
25°	867.4	862.4	858.8	860.5	858.8	862.4	867.4	868.1	876.8	883.7	889.9
27.5°	819.2	816.4	816.1	811.1	816.1	816.4	819.2	820.8	825.8	829.8	835.7
30°	791.2	784.9	786.2	783.1	786.2	784.9	791.2	791.8	794.3	796.8	803.7
32.5°	759.1	756.9	755.6	753.0	755.6	756.9	759.1	760.3	765.3	767.8	773.2
35°	715.5	716.1	712.9	714.3	712.9	716.1	715.5	716.7	717.4	719.8	724.9
37.5°	677.3	679.3	677.9	678.3	677.9	679.3	677.3	678.0	678.5	678.9	680.4
40°	652.3	652.3	652.3	654.2	652.3	652.3	652.3	650.4	651.1	650.4	650.4
42.5°	628.3	627.3	626.3	626.1	626.3	627.3	628.3	624.0	626.0	624.0	622.9
45°	587.3	589.2	589.7	586.6	589.7	589.2	587.3	586.0	584.2	583.5	582.9
47.5°	550.2	550.4	550.2	552.9	550.2	550.4	550.2	548.5	545.6	544.5	541.5
50°	524.1	522.8	524.1	522.8	524.1	522.8	524.1	520.9	519.1	515.9	513.5
52.5°	496.6	496.8	496.1	495.9	496.1	496.8	496.6	492.5	491.5	490.5	486.4
55°	453.5	454.7	454.0	454.0	454.0	454.7	453.5	450.9	450.3	446.6	442.8
57.5°	408.8	409.9	410.8	408.0	410.8	409.9	408.8	408.4	408.0	404.1	400.0
60°	377.8	380.9	380.2	379.0	380.2	380.9	377.8	378.3	376.5	374.0	371.5
62.5°	349.2	350.3	350.2	350.0	350.2	350.3	349.2	346.4	345.4	343.0	340.4
65°	305.2	306.4	304.5	306.4	304.5	306.4	305.2	303.3	299.0	297.7	295.2
67.5°	257.8	258.2	259.6	260.4	259.6	258.2	257.8	258.5	255.7	253.3	252.8
70°	228.3	227.6	229.5	231.4	229.5	227.6	228.3	227.1	225.2	223.3	220.7
72.5°	197.3	198.6	198.0	199.3	198.0	198.6	197.3	197.5	195.7	193.2	190.8
75°	151.9	153.8	153.3	155.1	153.3	153.8	151.9	153.3	151.9	149.5	146.9
77.5°	109.8	110.1	109.8	110.8	109.8	110.1	109.8	110.8	109.4	110.3	107.4
80°	83.8	82.6	81.3	83.8	81.3	82.6	83.8	83.8	81.9	83.8	81.9
82.5°	58.2	59.0	57.8	57.8	57.8	59.0	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.7	27.5	27.5
87.5°	7.8	7.4	7.4	6.9	7.4	7.4	7.8	7.8	7.8	8.9	9.0
90°	14.2	14.3	14.4	14.5	14.4	14.3	14.2	14.1	14.2	14.4	14.6
92.5°	13.8	13.8	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.7	13.7
95°	27.1	26.9	26.7	26.5	26.7	26.9	27.1	27.2	27.3	27.3	27.3
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
100°	58.8	58.7	58.6	58.5	58.6	58.7	58.8	58.9	58.9	58.9	58.9
102.5°	73.1	73.0	73.0	72.9	73.0	73.0	73.1	73.2	73.2	73.1	73.0
105°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.7	94.5	94.3
107.5°	116.8	116.3	115.9	115.5	115.9	116.3	116.8	117.3	117.4	117.3	117.3
110°	132.3	132.1	131.8	131.5	131.8	132.1	132.3	132.6	132.8	132.8	132.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	147.5	147.3	147.1	146.9	147.1	147.3	147.5	147.7	148.0	148.2	148.5
115°	171.6	171.4	171.1	170.8	171.1	171.4	171.6	171.9	172.1	172.2	172.3
117.5°	194.4	194.2	193.9	193.6	193.9	194.2	194.4	194.7	195.0	195.2	195.5
120°	210.6	210.3	210.0	209.7	210.0	210.3	210.6	210.8	210.9	210.9	210.9
122.5°	226.0	225.8	225.6	225.4	225.6	225.8	226.0	226.2	226.4	226.7	226.9
125°	249.7	249.6	249.5	249.4	249.5	249.6	249.7	249.8	250.0	250.2	250.5
127.5°	272.1	271.8	271.5	271.3	271.5	271.8	272.1	272.5	272.8	273.1	273.4
130°	288.1	287.8	287.4	287.0	287.4	287.8	288.1	288.5	288.8	289.0	289.2
132.5°	302.9	302.6	302.3	302.0	302.3	302.6	302.9	303.2	303.6	304.0	304.4
135°	326.2	325.9	325.6	325.4	325.6	325.9	326.2	326.5	326.7	326.8	326.9
137.5°	347.7	347.3	346.9	346.6	346.9	347.3	347.7	348.1	348.4	348.4	348.5
140°	362.4	362.0	361.7	361.3	361.7	362.0	362.4	362.8	363.0	363.0	363.0
142.5°	375.7	375.3	374.9	374.6	374.9	375.3	375.7	376.1	376.3	376.2	376.1
145°	395.7	395.3	394.9	394.5	394.9	395.3	395.7	396.1	396.2	396.2	396.1
147.5°	413.5	413.1	412.7	412.5	412.7	413.1	413.5	413.9	414.0	413.8	413.5
150°	424.9	424.6	424.3	424.0	424.3	424.6	424.9	425.2	425.2	424.9	424.6
152.5°	436.0	435.6	435.4	435.0	435.4	435.6	436.0	436.4	436.4	436.0	435.6
155°	450.5	450.3	450.0	449.7	450.0	450.3	450.5	450.8	450.7	450.3	449.8
157.5°	463.6	463.2	462.8	462.3	462.8	463.2	463.6	464.1	464.0	463.4	462.7
160°	471.3	470.9	470.5	470.1	470.5	470.9	471.3	471.6	471.6	471.0	470.4
162.5°	478.3	477.9	477.4	477.0	477.4	477.9	478.3	478.8	478.7	478.1	477.4
165°	487.4	486.9	486.4	486.0	486.4	486.9	487.4	487.9	487.8	487.1	486.4
167.5°	494.7	494.3	493.8	493.3	493.8	494.3	494.7	495.3	495.2	494.6	493.9
170°	498.8	498.2	497.7	497.1	497.7	498.2	498.8	499.4	499.3	498.6	497.9
172.5°	501.8	501.2	500.7	500.1	500.7	501.2	501.8	502.4	502.4	501.7	501.1
175°	505.2	504.6	504.1	503.5	504.1	504.6	505.2	505.8	505.7	505.0	504.4
177.5°	506.3	506.0	505.5	505.0	505.5	506.0	506.3	506.8	506.8	506.3	506.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1563.8	1569.3	1577.8	1586.9	1592.3	1602.8	1605.8	1610.8	1615.3	1625.9	1636.8
5°	1473.5	1482.2	1502.9	1514.1	1529.7	1547.9	1559.8	1572.3	1586.1	1609.9	1631.7
7.5°	1376.7	1391.3	1416.9	1437.9	1460.2	1486.3	1505.1	1529.7	1550.3	1583.8	1615.8
10°	1312.1	1332.8	1355.9	1380.9	1412.2	1439.7	1466.0	1497.2	1522.3	1562.3	1599.9
12.5°	1254.1	1257.3	1290.3	1317.9	1360.7	1394.7	1424.9	1465.3	1489.8	1537.3	1576.8
15°	1152.6	1171.4	1201.5	1223.3	1273.9	1317.1	1359.7	1401.6	1429.7	1488.5	1540.4
17.5°	1067.2	1084.5	1115.2	1151.1	1187.5	1230.5	1285.5	1329.6	1367.9	1435.1	1496.5
20°	1013.1	1034.4	1065.7	1102.6	1134.5	1181.4	1229.0	1279.6	1320.9	1396.6	1468.5
22.5°	967.1	983.9	1009.2	1045.6	1080.4	1123.4	1175.4	1230.6	1273.8	1355.6	1428.4
25°	902.5	916.2	932.5	962.5	1001.9	1048.9	1089.5	1150.2	1213.3	1289.6	1377.8
27.5°	844.2	853.9	868.4	894.8	925.3	969.1	1014.3	1071.9	1135.4	1218.2	1311.3
30°	808.7	814.9	829.3	851.2	881.2	915.6	961.3	1016.3	1081.4	1165.2	1257.7
32.5°	777.7	783.4	792.8	813.7	839.7	869.1	910.2	965.3	1027.3	1109.7	1212.2
35°	731.1	735.5	743.7	760.5	774.9	803.7	838.1	888.1	946.2	1025.1	1131.4
37.5°	684.8	690.7	695.7	702.9	721.3	740.3	770.2	812.4	869.5	949.0	1050.4
40°	654.2	659.2	666.7	669.9	684.9	701.7	726.1	764.9	822.5	894.9	993.8
42.5°	623.2	628.2	632.6	636.3	649.3	664.2	686.1	719.3	770.4	840.9	938.8
45°	581.0	581.6	586.0	592.9	599.2	609.8	625.4	654.2	693.6	759.9	848.7
47.5°	538.2	538.9	539.7	542.7	549.6	559.2	569.7	593.0	628.3	681.2	767.6
50°	509.7	508.5	509.7	512.2	516.6	524.7	536.6	553.5	582.3	631.7	711.1
52.5°	482.2	481.9	481.2	482.2	485.6	491.2	499.5	514.0	539.7	585.1	655.1
55°	440.3	437.2	437.8	435.3	440.9	442.1	448.5	460.3	482.9	514.1	579.8
57.5°	395.7	393.0	390.3	389.6	389.0	392.4	397.4	406.8	424.0	451.4	504.7
60°	367.1	364.0	360.2	359.0	359.0	360.9	363.4	370.2	386.5	410.9	454.7
62.5°	338.1	334.5	332.2	328.9	328.0	329.9	332.3	337.2	349.0	371.8	409.6
65°	293.3	289.0	285.8	285.2	284.0	282.1	283.3	288.3	297.7	315.8	345.8
67.5°	248.5	244.3	243.6	239.9	238.2	238.4	238.2	242.4	248.1	263.7	286.1
70°	218.9	215.7	214.5	211.4	210.2	208.9	207.6	211.4	217.1	230.2	249.6
72.5°	188.9	186.2	183.5	180.9	181.2	179.8	179.6	181.9	186.5	198.6	213.5
75°	145.7	146.4	143.3	140.1	139.5	138.2	138.2	140.1	141.9	151.4	163.2
77.5°	105.7	105.2	102.5	101.6	100.9	99.5	100.9	102.2	103.2	109.4	118.2
80°	80.7	80.7	77.6	77.6	76.9	75.0	76.9	75.7	78.1	84.5	90.7
82.5°	57.7	56.6	56.6	55.5	55.4	54.0	55.0	56.2	57.1	61.5	65.1
85°	28.2	28.2	27.5	26.9	27.5	26.9	27.5	28.2	28.7	30.6	33.7
87.5°	9.0	9.5	9.6	9.6	9.2	9.3	9.5	9.8	10.6	10.8	11.1
90°	14.8	15.0	12.8	10.7	8.7	6.6	5.0	3.9	2.7	1.6	0.5
92.5°	13.6	13.6	13.1	12.6	12.1	11.6	10.9	10.1	9.2	8.5	7.6
95°	27.3	27.3	27.1	27.0	26.8	26.6	26.0	25.1	24.1	23.2	22.2
97.5°	45.9	45.9	45.6	45.2	44.9	44.5	43.9	43.1	42.2	41.4	40.5
100°	58.9	58.9	58.6	58.3	58.1	57.8	57.3	56.6	55.7	55.0	54.2
102.5°	73.0	73.0	72.6	72.2	71.8	71.5	71.0	70.4	69.7	69.2	68.6
105°	94.2	94.0	93.8	93.6	93.4	93.2	92.9	92.7	92.4	92.1	91.8
107.5°	117.2	117.1	117.1	117.1	117.1	117.1	116.9	116.5	116.0	115.6	115.2
110°	132.8	132.8	132.8	132.8	132.8	132.8	132.5	132.0	131.4	130.8	130.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.6	148.8	148.9	149.0	149.1	149.2	148.9	148.4	147.8	147.2	146.7
115°	172.4	172.5	172.7	172.9	173.1	173.2	173.1	172.5	171.9	171.4	170.8
117.5°	195.7	196.0	196.4	197.0	197.6	198.0	197.9	197.2	196.4	195.7	194.9
120°	210.9	210.9	211.7	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9
122.5°	227.2	227.3	227.9	228.4	228.9	229.5	229.3	228.4	227.4	226.6	225.6
125°	250.8	251.1	251.4	251.7	251.9	252.2	251.9	251.1	250.2	249.4	248.5
127.5°	273.8	274.2	274.5	274.8	275.2	275.5	275.1	274.1	273.0	271.9	270.8
130°	289.4	289.5	289.7	289.9	290.1	290.3	289.7	288.5	287.3	286.1	284.8
132.5°	304.8	305.2	305.2	305.2	305.1	305.1	304.5	303.6	302.6	301.5	300.6
135°	327.0	327.1	326.9	326.7	326.5	326.3	325.7	324.7	323.7	322.6	321.6
137.5°	348.6	348.6	348.4	348.2	347.9	347.6	347.0	346.2	345.3	344.5	343.7
140°	363.0	363.0	362.5	362.0	361.6	361.1	360.4	359.6	358.7	357.9	357.0
142.5°	376.1	376.0	375.6	375.3	374.9	374.7	374.1	373.2	372.4	371.6	370.7
145°	396.0	395.9	395.3	394.7	394.2	393.6	392.9	392.3	391.6	391.0	390.3
147.5°	413.3	413.1	412.7	412.4	412.0	411.6	411.0	410.2	409.4	408.6	407.8
150°	424.3	424.0	423.7	423.3	422.9	422.5	422.1	421.5	420.9	420.4	419.8
152.5°	435.4	435.0	434.5	434.0	433.6	433.2	432.6	432.1	431.5	430.9	430.4
155°	449.3	448.8	448.6	448.3	448.0	447.7	447.4	447.1	446.8	446.5	446.2
157.5°	462.1	461.5	461.3	461.1	460.9	460.7	460.6	460.4	460.2	460.1	459.9
160°	469.9	469.3	469.2	469.1	469.0	468.9	468.8	468.6	468.4	468.3	468.1
162.5°	476.7	476.2	476.1	476.0	475.9	475.8	475.7	475.6	475.6	475.6	475.5
165°	485.8	485.1	485.1	485.1	485.1	485.1	485.1	485.2	485.3	485.4	485.5
167.5°	493.2	492.6	492.6	492.6	492.6	492.6	492.8	493.0	493.3	493.6	493.9
170°	497.3	496.6	496.7	496.8	496.9	497.0	497.2	497.5	497.8	498.0	498.3
172.5°	500.4	499.7	499.8	499.9	500.0	500.1	500.3	500.6	500.9	501.1	501.4
175°	503.7	503.0	503.2	503.4	503.6	503.8	504.1	504.4	504.6	504.9	505.2
177.5°	505.5	505.0	505.1	505.3	505.5	505.6	505.8	506.1	506.2	506.5	506.7
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331556-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1635.9	1638.3	1646.3	1654.4	1663.4	1665.8	1669.9	1666.4	1665.4	1674.9	1681.9
5°	1640.5	1651.7	1673.7	1693.7	1710.5	1722.4	1734.9	1739.9	1749.3	1762.5	1778.7
7.5°	1635.2	1657.1	1691.5	1720.7	1752.5	1775.3	1793.2	1808.5	1827.0	1851.9	1879.1
10°	1629.2	1658.6	1700.5	1736.2	1774.9	1804.3	1828.7	1852.5	1880.0	1914.4	1950.0
12.5°	1618.3	1653.1	1705.5	1747.7	1797.4	1826.4	1859.3	1910.5	1940.0	1988.0	2038.2
15°	1596.1	1634.8	1708.0	1759.9	1816.2	1871.2	1931.9	1980.8	2029.5	2057.7	2128.4
17.5°	1563.2	1620.1	1701.1	1761.7	1833.2	1920.0	1988.1	2043.3	2099.7	2145.3	2180.8
20°	1536.6	1598.6	1691.1	1763.7	1848.7	1941.9	2020.2	2076.4	2125.2	2163.3	2185.2
22.5°	1503.2	1581.0	1671.1	1756.1	1864.7	1956.9	2039.1	2083.4	2124.2	2142.8	2151.2
25°	1450.4	1544.2	1646.2	1749.9	1872.5	1970.1	2045.1	2072.0	2083.9	2065.8	2035.7
27.5°	1393.5	1498.0	1617.2	1738.1	1867.7	1961.5	2015.3	2011.1	1990.9	1932.3	1885.4
30°	1350.9	1466.0	1594.2	1726.2	1856.2	1947.6	1978.9	1947.6	1901.9	1836.3	1769.3
32.5°	1306.4	1425.5	1569.7	1709.1	1835.2	1915.5	1922.3	1868.5	1797.8	1723.2	1639.7
35°	1239.0	1367.8	1523.5	1671.1	1790.5	1841.3	1811.2	1716.2	1632.4	1530.4	1416.5
37.5°	1162.8	1305.0	1461.2	1615.4	1723.6	1736.9	1662.4	1562.3	1444.1	1324.3	1190.3
40°	1105.8	1256.5	1417.2	1572.9	1668.6	1654.8	1559.8	1449.7	1309.0	1162.6	1038.2
42.5°	1054.7	1205.4	1369.1	1521.9	1598.6	1560.8	1449.7	1314.7	1163.4	1025.6	911.6
45°	966.3	1121.3	1289.0	1436.6	1480.4	1412.2	1265.3	1115.1	966.3	851.2	761.1
47.5°	880.4	1033.8	1199.8	1329.6	1345.0	1253.3	1092.7	938.3	810.3	716.6	653.1
50°	817.5	971.3	1135.8	1251.5	1246.4	1135.8	970.6	823.7	716.7	641.0	598.5
52.5°	760.9	906.3	1064.2	1169.4	1142.9	1022.2	864.6	734.1	646.2	587.0	548.5
55°	673.0	807.4	957.5	1042.0	993.2	859.3	726.1	621.0	556.0	511.6	481.5
57.5°	585.6	711.7	840.2	892.2	838.3	714.7	603.7	527.4	478.5	445.6	426.1
60°	531.6	641.7	756.1	801.2	736.8	626.7	539.1	471.0	431.5	404.6	387.1
62.5°	477.6	576.2	684.1	708.6	649.7	556.7	479.1	422.4	390.0	366.1	349.6
65°	404.1	484.7	566.7	582.9	528.5	456.6	395.3	358.4	329.6	312.1	299.0
67.5°	331.3	396.2	454.2	467.3	419.6	369.8	325.5	293.3	273.8	259.3	248.2
70°	288.3	339.6	387.1	397.8	359.6	315.2	281.4	255.8	238.3	225.7	215.2
72.5°	242.8	285.6	325.1	332.2	301.0	267.2	239.4	219.2	203.8	195.8	185.6
75°	185.8	210.8	241.4	243.3	222.6	202.0	180.8	167.6	159.5	149.5	144.5
77.5°	131.1	150.7	168.2	171.6	159.4	145.3	133.5	123.1	116.2	111.6	107.0
80°	100.1	115.7	123.2	127.6	118.9	108.9	102.0	95.1	90.7	87.6	84.5
82.5°	71.5	81.2	88.2	91.5	86.8	80.8	73.9	70.0	66.6	64.0	63.0
85°	36.3	40.6	45.1	46.3	45.1	42.5	38.7	38.7	36.9	36.3	36.3
87.5°	12.8	15.1	15.3	17.0	16.3	16.8	17.2	17.1	17.0	16.5	15.9
90°	1.6	2.7	3.9	5.0	6.6	8.7	10.7	12.8	15.0	14.8	14.6
92.5°	8.5	9.2	10.1	10.9	11.6	12.1	12.6	13.1	13.6	13.6	13.7
95°	23.2	24.1	25.1	26.0	26.6	26.8	27.0	27.1	27.3	27.3	27.3
97.5°	41.4	42.2	43.1	43.9	44.5	44.9	45.2	45.6	45.9	45.9	45.9
100°	55.0	55.7	56.6	57.3	57.8	58.1	58.3	58.6	58.9	58.9	58.9
102.5°	69.2	69.7	70.4	71.0	71.5	71.8	72.2	72.6	73.0	73.0	73.0
105°	92.1	92.4	92.7	92.9	93.2	93.4	93.6	93.8	94.0	94.2	94.3
107.5°	115.6	116.0	116.5	116.9	117.1	117.1	117.1	117.1	117.1	117.2	117.3
110°	130.8	131.4	132.0	132.5	132.8	132.8	132.8	132.8	132.8	132.8	132.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	147.2	147.8	148.4	148.9	149.2	149.1	149.0	148.9	148.8	148.6	148.5
115°	171.4	171.9	172.5	173.1	173.2	173.1	172.9	172.7	172.5	172.4	172.3
117.5°	195.7	196.4	197.2	197.9	198.0	197.6	197.0	196.4	196.0	195.7	195.5
120°	211.7	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9	210.9	210.9
122.5°	226.6	227.4	228.4	229.3	229.5	228.9	228.4	227.9	227.3	227.2	226.9
125°	249.4	250.2	251.1	251.9	252.2	251.9	251.7	251.4	251.1	250.8	250.5
127.5°	271.9	273.0	274.1	275.1	275.5	275.2	274.8	274.5	274.2	273.8	273.4
130°	286.1	287.3	288.5	289.7	290.3	290.1	289.9	289.7	289.5	289.4	289.2
132.5°	301.5	302.6	303.6	304.5	305.1	305.1	305.2	305.2	305.2	304.8	304.4
135°	322.6	323.7	324.7	325.7	326.3	326.5	326.7	326.9	327.1	327.0	326.9
137.5°	344.5	345.3	346.2	347.0	347.6	347.9	348.2	348.4	348.6	348.6	348.5
140°	357.9	358.7	359.6	360.4	361.1	361.6	362.0	362.5	363.0	363.0	363.0
142.5°	371.6	372.4	373.2	374.1	374.7	374.9	375.3	375.6	376.0	376.1	376.1
145°	391.0	391.6	392.3	392.9	393.6	394.2	394.7	395.3	395.9	396.0	396.1
147.5°	408.6	409.4	410.2	411.0	411.6	412.0	412.4	412.7	413.1	413.3	413.5
150°	420.4	420.9	421.5	422.1	422.5	422.9	423.3	423.7	424.0	424.3	424.6
152.5°	430.9	431.5	432.1	432.6	433.2	433.6	434.0	434.5	435.0	435.4	435.6
155°	446.5	446.8	447.1	447.4	447.7	448.0	448.3	448.6	448.8	449.3	449.8
157.5°	460.1	460.2	460.4	460.6	460.7	460.9	461.1	461.3	461.5	462.1	462.7
160°	468.3	468.4	468.6	468.8	468.9	469.0	469.1	469.2	469.3	469.9	470.4
162.5°	475.6	475.6	475.6	475.7	475.8	475.9	476.0	476.1	476.2	476.7	477.4
165°	485.4	485.3	485.2	485.1	485.1	485.1	485.1	485.1	485.1	485.8	486.4
167.5°	493.6	493.3	493.0	492.8	492.6	492.6	492.6	492.6	492.6	493.2	493.9
170°	498.0	497.8	497.5	497.2	497.0	496.9	496.8	496.7	496.6	497.3	497.9
172.5°	501.1	500.9	500.6	500.3	500.1	500.0	499.9	499.8	499.7	500.4	501.1
175°	504.9	504.6	504.4	504.1	503.8	503.6	503.4	503.2	503.0	503.7	504.4
177.5°	506.5	506.2	506.1	505.8	505.6	505.5	505.3	505.1	505.0	505.5	506.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1687.9	1694.9	1694.9	1695.9	1703.9	1702.9	1702.4
5°	1796.2	1806.9	1808.1	1819.4	1826.8	1824.4	1817.5
7.5°	1898.4	1918.2	1933.2	1941.5	1951.4	1957.6	1954.8
10°	1979.4	2008.2	2025.7	2037.6	2052.0	2062.7	2058.9
12.5°	2053.0	2087.3	2111.3	2131.7	2133.5	2147.2	2138.0
15°	2167.8	2203.9	2207.7	2222.7	2234.7	2233.4	2234.0
17.5°	2205.6	2217.2	2219.6	2220.0	2220.2	2215.7	2206.2
20°	2192.1	2187.7	2177.1	2169.0	2154.6	2152.7	2140.2
22.5°	2128.1	2114.2	2087.5	2069.9	2047.5	2041.6	2038.2
25°	2002.0	1971.3	1928.8	1888.1	1876.9	1855.0	1861.2
27.5°	1829.0	1781.2	1735.1	1702.1	1672.3	1639.5	1648.9
30°	1707.4	1653.6	1588.6	1538.5	1506.7	1475.4	1469.7
32.5°	1562.3	1483.5	1411.0	1366.9	1318.1	1298.3	1276.6
35°	1312.1	1235.2	1163.3	1101.4	1065.7	1038.2	1013.1
37.5°	1087.1	998.5	940.5	890.3	864.6	848.9	852.8
40°	947.5	870.0	827.5	789.3	765.5	754.2	756.8
42.5°	834.4	776.4	741.4	715.2	698.4	692.2	690.7
45°	706.1	673.5	644.8	629.8	621.7	614.8	610.4
47.5°	618.5	592.0	575.8	566.8	559.8	552.7	552.6
50°	566.0	548.5	537.2	527.8	522.3	517.3	521.6
52.5°	525.9	510.0	498.7	490.3	488.2	483.7	483.6
55°	466.6	454.0	445.9	438.4	434.7	432.2	429.0
57.5°	412.6	400.7	393.1	388.4	381.3	378.7	377.8
60°	374.0	364.6	357.1	350.8	347.7	342.7	342.7
62.5°	338.5	329.1	322.1	317.4	312.2	310.2	310.8
65°	287.1	279.6	272.7	267.7	266.5	262.7	263.9
67.5°	239.8	234.8	227.5	224.8	222.4	220.4	218.9
70°	208.3	203.3	199.5	195.8	193.9	193.9	193.9
72.5°	181.7	175.8	173.5	168.7	169.8	167.9	165.9
75°	140.7	137.0	135.1	133.2	130.1	130.1	130.1
77.5°	103.6	102.5	100.2	98.2	97.5	96.8	97.1
80°	80.0	79.5	78.1	78.1	76.9	76.3	75.0
82.5°	61.5	59.9	59.2	58.6	58.4	58.2	58.1
85°	35.1	33.7	33.7	34.4	33.2	33.2	33.7
87.5°	16.4	16.3	15.8	15.8	16.4	15.9	15.9
90°	14.4	14.2	14.1	14.2	14.3	14.4	14.5
92.5°	13.7	13.8	13.8	13.8	13.8	13.9	13.9
95°	27.3	27.3	27.2	27.1	26.9	26.7	26.5
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9
100°	58.9	58.9	58.9	58.8	58.7	58.6	58.5
102.5°	73.1	73.2	73.2	73.1	73.0	73.0	72.9
105°	94.5	94.7	94.8	94.8	94.8	94.8	94.8
107.5°	117.3	117.4	117.3	116.8	116.3	115.9	115.5
110°	132.8	132.8	132.6	132.3	132.1	131.8	131.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	148.2	148.0	147.7	147.5	147.3	147.1	146.9
115°	172.2	172.1	171.9	171.6	171.4	171.1	170.8
117.5°	195.2	195.0	194.7	194.4	194.2	193.9	193.6
120°	210.9	210.9	210.8	210.6	210.3	210.0	209.7
122.5°	226.7	226.4	226.2	226.0	225.8	225.6	225.4
125°	250.2	250.0	249.8	249.7	249.6	249.5	249.4
127.5°	273.1	272.8	272.5	272.1	271.8	271.5	271.3
130°	289.0	288.8	288.5	288.1	287.8	287.4	287.0
132.5°	304.0	303.6	303.2	302.9	302.6	302.3	302.0
135°	326.8	326.7	326.5	326.2	325.9	325.6	325.4
137.5°	348.4	348.4	348.1	347.7	347.3	346.9	346.6
140°	363.0	363.0	362.8	362.4	362.0	361.7	361.3
142.5°	376.2	376.3	376.1	375.7	375.3	374.9	374.6
145°	396.2	396.2	396.1	395.7	395.3	394.9	394.5
147.5°	413.8	414.0	413.9	413.5	413.1	412.7	412.5
150°	424.9	425.2	425.2	424.9	424.6	424.3	424.0
152.5°	436.0	436.4	436.4	436.0	435.6	435.4	435.0
155°	450.3	450.7	450.8	450.5	450.3	450.0	449.7
157.5°	463.4	464.0	464.1	463.6	463.2	462.8	462.3
160°	471.0	471.6	471.6	471.3	470.9	470.5	470.1
162.5°	478.1	478.7	478.8	478.3	477.9	477.4	477.0
165°	487.1	487.8	487.9	487.4	486.9	486.4	486.0
167.5°	494.6	495.2	495.3	494.7	494.3	493.8	493.3
170°	498.6	499.3	499.4	498.8	498.2	497.7	497.1
172.5°	501.7	502.4	502.4	501.8	501.2	500.7	500.1
175°	505.0	505.7	505.8	505.2	504.6	504.1	503.5
177.5°	506.3	506.8	506.8	506.3	506.0	505.5	505.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1

(END OF REPORT)