

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: P331825-840

Luminaire Tested: **S122RDIW-S865D435U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331825-840
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-S865D435U840-4F0-1E-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: 5082.3 lumens
Efficiency: N/A
Efficacy: 110.0 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

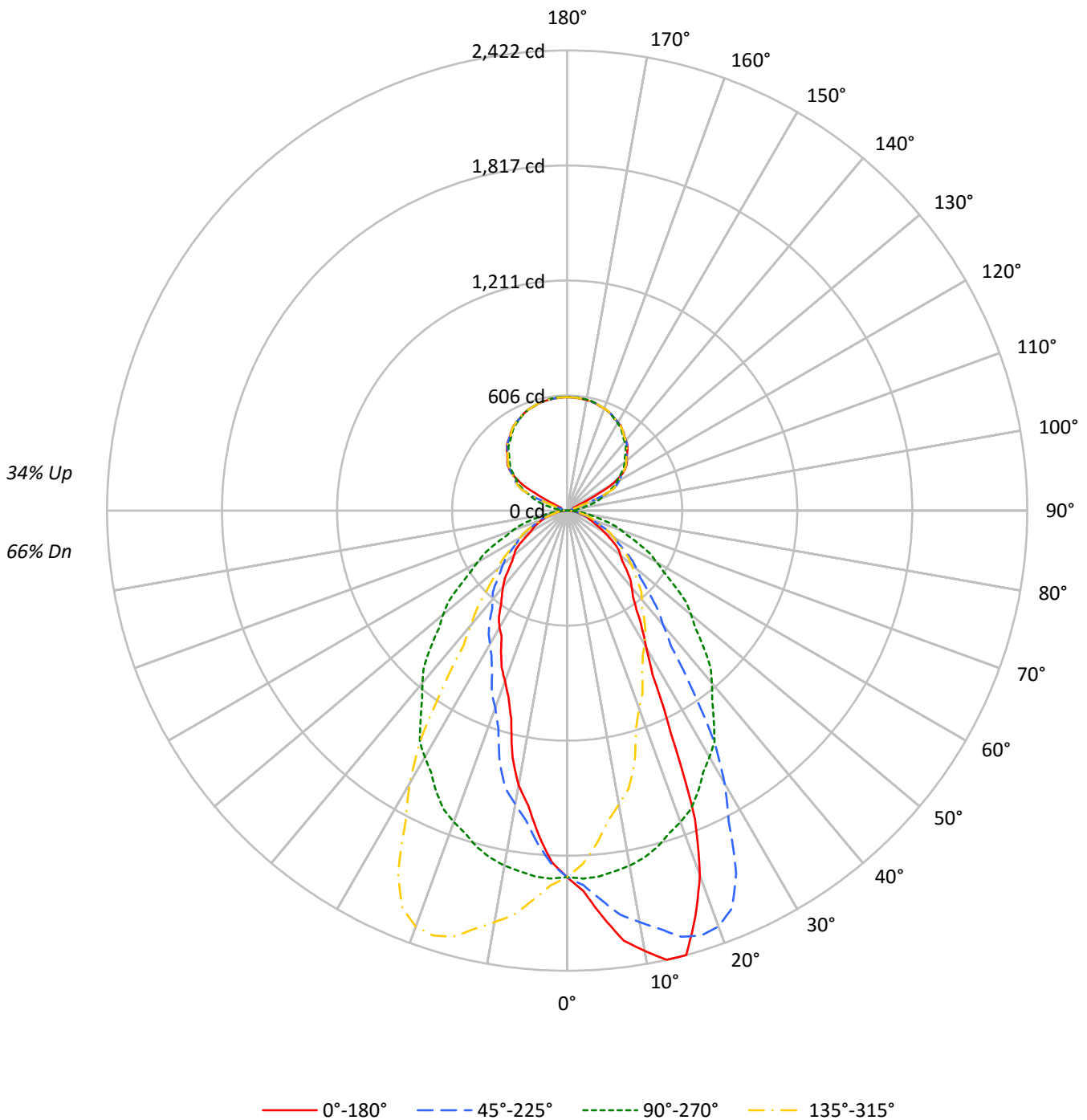
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	3.6
10°-20°	509.4	10.0
20°-30°	656.4	12.9
30°-40°	623.8	12.3
40°-50°	534.4	10.5
50°-60°	406.9	8.0
60°-70°	257.2	5.1
70°-80°	128.5	2.5
80°-90°	34.9	0.7
90°-100°	19.9	0.4
100°-110°	73.0	1.4
110°-120°	195.0	3.8
120°-130°	322.0	6.3
130°-140°	342.4	6.7
140°-150°	318.3	6.3
150°-160°	255.9	5.0
160°-170°	164.9	3.2
170°-180°	56.8	1.1
0°-30°	1348.5	26.5
0°-40°	1972.3	38.8
0°-60°	2913.6	57.3
0°-90°	3334.2	65.6
90°-120°	287.9	5.7
90°-150°	1270.6	25.0
90°-180°	1748.0	34.4
0°-180°	5082.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	26
90°	12	0	12	0	12	6
95°	19	28	19	28	19	17
105°	33	131	33	131	33	34
115°	35	248	35	248	35	89
125°	369	351	369	351	369	319
135°	448	434	448	434	448	346
145°	512	504	512	504	512	320
155°	555	555	555	555	555	256
165°	583	584	583	584	583	165
175°	594	598	594	598	594	57
180°	596	596	596	596	596	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	10.9	11.4	11.4	11.3	11.3	11.2	11.1	11.6	10.9	11.4	10.7
90°	11.6	11.5	11.3	11.1	10.9	10.5	10.1	9.6	9.1	8.6	7.9
92.5°	11.6	11.5	11.4	11.3	11.2	11.0	10.8	10.5	10.3	10.0	9.6
95°	18.6	18.7	18.8	18.9	19.0	18.8	18.3	17.8	17.3	16.9	16.2
97.5°	24.7	24.6	24.5	24.4	24.3	24.0	23.7	23.3	22.9	22.5	21.0
100°	28.9	28.7	28.6	28.4	28.2	27.7	26.9	26.2	25.3	24.6	22.9
102.5°	31.0	30.7	30.5	30.2	29.9	29.3	28.3	27.3	26.3	25.2	39.0
105°	32.8	32.4	32.0	31.6	31.3	30.6	29.5	28.5	27.4	26.4	52.5
107.5°	33.7	33.3	33.0	32.6	32.2	32.5	33.6	34.7	35.7	36.9	68.3
110°	34.1	33.7	33.3	32.9	32.5	37.2	46.8	56.4	65.9	75.5	103.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	34.4	34.1	33.8	33.5	33.2	50.6	85.5	120.6	155.5	190.6	197.3
115°	35.3	42.3	49.2	56.1	63.0	88.7	133.1	177.5	221.9	266.3	263.9
117.5°	144.5	167.2	189.9	212.6	235.3	252.0	262.8	273.5	284.3	295.0	293.4
120°	263.3	276.2	289.2	302.2	315.1	321.0	319.8	318.7	317.5	316.4	314.7
122.5°	328.5	331.0	333.6	336.1	338.6	339.5	338.8	338.1	337.5	336.8	334.9
125°	369.0	368.8	368.5	368.2	367.9	367.4	366.8	366.1	365.4	364.8	362.9
127.5°	394.6	394.6	394.5	394.5	394.4	393.8	392.8	391.9	390.9	389.9	388.6
130°	410.5	410.6	410.7	410.8	410.9	410.4	409.3	408.3	407.2	406.2	405.2
132.5°	426.1	426.2	426.2	426.3	426.4	426.0	425.1	424.2	423.3	422.4	421.3
135°	448.5	448.7	448.9	449.1	449.2	448.9	447.9	447.0	446.0	445.0	444.1
137.5°	468.9	469.3	469.6	469.9	470.2	469.9	469.0	468.1	467.1	466.2	465.1
140°	481.7	482.2	482.6	483.1	483.6	483.4	482.6	481.7	480.8	480.0	478.9
142.5°	494.1	494.6	495.1	495.5	496.0	495.9	495.1	494.3	493.5	492.7	491.5
145°	511.5	512.0	512.4	512.9	513.4	513.3	512.6	512.0	511.3	510.6	509.0
147.5°	526.7	527.1	527.6	528.0	528.4	528.4	527.9	527.4	526.8	526.3	524.7
150°	536.1	536.5	537.0	537.6	538.1	538.0	537.3	536.8	536.2	535.6	534.1
152.5°	544.0	544.6	545.3	545.9	546.5	546.6	546.0	545.4	544.8	544.3	542.8
155°	555.1	555.8	556.6	557.3	558.2	558.3	557.6	557.1	556.5	555.9	554.8
157.5°	565.2	565.9	566.6	567.4	568.2	568.3	567.5	566.9	566.2	565.6	564.8
160°	571.1	571.7	572.4	573.1	573.7	573.8	573.2	572.6	572.1	571.5	570.9
162.5°	575.9	576.7	577.5	578.3	579.2	579.3	578.7	577.9	577.3	576.6	576.1
165°	583.1	583.8	584.5	585.1	585.8	585.8	585.1	584.5	583.8	583.1	582.9
167.5°	587.7	588.5	589.5	590.3	591.2	591.3	590.6	590.0	589.3	588.5	588.3
170°	590.5	591.4	592.2	593.1	593.9	594.0	593.4	592.7	592.0	591.4	591.2
172.5°	592.6	593.4	594.3	595.1	596.0	596.1	595.4	594.7	594.1	593.4	593.2
175°	594.4	595.3	596.3	597.2	598.2	598.3	597.6	597.0	596.3	595.6	595.4
177.5°	595.5	596.1	596.8	597.5	598.2	598.3	597.7	597.2	596.7	596.1	596.1
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	10.5	10.9	10.8	10.0	10.4	10.7	13.1	15.7	13.7	12.3	11.4
90°	7.1	6.4	5.6	4.6	3.6	2.5	1.5	0.4	1.5	2.5	3.6
92.5°	9.3	8.9	8.5	8.4	8.4	8.5	8.6	8.7	8.6	8.5	8.4
95°	15.5	14.8	14.1	15.3	18.6	21.7	24.8	28.1	24.8	21.7	18.6
97.5°	19.4	17.9	16.4	20.0	28.9	37.9	46.8	55.6	46.8	37.9	28.9
100°	21.3	19.7	18.1	23.8	37.0	50.1	63.2	76.4	63.2	50.1	37.0
102.5°	52.6	66.2	79.9	88.1	90.9	93.6	96.4	99.2	96.4	93.6	90.9
105°	78.7	104.9	131.1	142.7	139.9	136.9	134.1	131.2	134.1	136.9	139.9
107.5°	99.7	131.1	162.5	177.0	174.7	172.4	170.1	167.7	170.1	172.4	174.7
110°	131.0	158.6	186.4	199.2	197.2	195.2	193.2	191.2	193.2	195.2	197.2



TEST NUMBER: P331825-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	204.2	211.1	217.9	220.5	218.6	216.9	215.1	213.3	215.1	216.9	218.6
115°	261.6	259.1	256.7	254.7	253.1	251.5	249.8	248.2	249.8	251.5	253.1
117.5°	291.6	290.0	288.4	286.6	284.8	283.0	281.1	279.3	281.1	283.0	284.8
120°	313.0	311.2	309.5	307.9	306.5	305.0	303.6	302.2	303.6	305.0	306.5
122.5°	333.0	331.1	329.2	327.5	326.0	324.5	323.0	321.4	323.0	324.5	326.0
125°	361.1	359.3	357.4	355.9	354.7	353.5	352.1	350.9	352.1	353.5	354.7
127.5°	387.2	385.9	384.5	383.1	381.7	380.3	379.0	377.6	379.0	380.3	381.7
130°	404.0	403.0	401.9	400.6	399.1	397.6	396.1	394.6	396.1	397.6	399.1
132.5°	420.3	419.2	418.2	417.0	415.7	414.3	413.0	411.8	413.0	414.3	415.7
135°	443.3	442.4	441.5	440.4	438.8	437.3	435.8	434.2	435.8	437.3	438.8
137.5°	464.2	463.2	462.2	461.2	460.2	459.1	458.0	457.0	458.0	459.1	460.2
140°	477.9	476.9	475.7	474.8	474.0	473.3	472.5	471.8	472.5	473.3	474.0
142.5°	490.3	489.1	488.0	487.0	486.3	485.5	484.9	484.2	484.9	485.5	486.3
145°	507.4	505.7	504.1	503.3	503.4	503.5	503.6	503.7	503.6	503.5	503.4
147.5°	523.1	521.5	519.9	519.3	519.7	520.0	520.4	520.7	520.4	520.0	519.7
150°	532.6	531.1	529.5	529.1	529.8	530.4	531.1	531.8	531.1	530.4	529.8
152.5°	541.4	539.9	538.5	538.1	538.9	539.6	540.4	541.1	540.4	539.6	538.9
155°	553.6	552.5	551.4	551.2	552.1	552.9	553.8	554.6	553.8	552.9	552.1
157.5°	564.0	563.2	562.4	562.4	563.1	563.8	564.5	565.2	564.5	563.8	563.1
160°	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5	570.9	570.4	569.8
162.5°	575.6	575.1	574.7	574.7	575.3	575.8	576.4	577.0	576.4	575.8	575.3
165°	582.6	582.3	582.0	582.1	582.7	583.3	583.9	584.4	583.9	583.3	582.7
167.5°	588.0	587.7	587.5	587.6	588.2	588.9	589.4	590.0	589.4	588.9	588.2
170°	591.0	590.8	590.6	590.8	591.4	591.9	592.5	593.1	592.5	591.9	591.4
172.5°	593.0	592.8	592.7	592.8	593.4	594.0	594.6	595.1	594.6	594.0	593.4
175°	595.3	595.1	594.9	595.1	595.8	596.4	597.1	597.8	597.1	596.4	595.8
177.5°	596.0	595.9	595.8	596.1	596.6	597.1	597.7	598.2	597.7	597.1	596.6
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331825-840

CATALOG NUMBER: S122RDIW-S865D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	11.1	10.8	9.8	10.0	10.2	9.8	9.9	9.4	9.5	9.6	9.2
90°	4.6	5.6	6.4	7.1	7.9	8.6	9.1	9.6	10.1	10.5	10.9
92.5°	8.4	8.5	8.9	9.3	9.6	10.0	10.3	10.5	10.8	11.0	11.2
95°	15.3	14.1	14.8	15.5	16.2	16.9	17.3	17.8	18.3	18.8	19.0
97.5°	20.0	16.4	17.9	19.4	21.0	22.5	22.9	23.3	23.7	24.0	24.3
100°	23.8	18.1	19.7	21.3	22.9	24.6	25.3	26.2	26.9	27.7	28.2
102.5°	88.1	79.9	66.2	52.6	39.0	25.2	26.3	27.3	28.3	29.3	29.9
105°	142.7	131.1	104.9	78.7	52.5	26.4	27.4	28.5	29.5	30.6	31.3
107.5°	177.0	162.5	131.1	99.7	68.3	36.9	35.7	34.7	33.6	32.5	32.2
110°	199.2	186.4	158.6	131.0	103.2	75.5	65.9	56.4	46.8	37.2	32.5



TEST NUMBER: P331825-840

CATALOG NUMBER: S122RDIW-S865D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.5	217.9	211.1	204.2	197.3	190.6	155.5	120.6	85.5	50.6	33.2
115°	254.7	256.7	259.1	261.6	263.9	266.3	221.9	177.5	133.1	88.7	63.0
117.5°	286.6	288.4	290.0	291.6	293.4	295.0	284.3	273.5	262.8	252.0	235.3
120°	307.9	309.5	311.2	313.0	314.7	316.4	317.5	318.7	319.8	321.0	315.1
122.5°	327.5	329.2	331.1	333.0	334.9	336.8	337.5	338.1	338.8	339.5	338.6
125°	355.9	357.4	359.3	361.1	362.9	364.8	365.4	366.1	366.8	367.4	367.9
127.5°	383.1	384.5	385.9	387.2	388.6	389.9	390.9	391.9	392.8	393.8	394.4
130°	400.6	401.9	403.0	404.0	405.2	406.2	407.2	408.3	409.3	410.4	410.9
132.5°	417.0	418.2	419.2	420.3	421.3	422.4	423.3	424.2	425.1	426.0	426.4
135°	440.4	441.5	442.4	443.3	444.1	445.0	446.0	447.0	447.9	448.9	449.2
137.5°	461.2	462.2	463.2	464.2	465.1	466.2	467.1	468.1	469.0	469.9	470.2
140°	474.8	475.7	476.9	477.9	478.9	480.0	480.8	481.7	482.6	483.4	483.6
142.5°	487.0	488.0	489.1	490.3	491.5	492.7	493.5	494.3	495.1	495.9	496.0
145°	503.3	504.1	505.7	507.4	509.0	510.6	511.3	512.0	512.6	513.3	513.4
147.5°	519.3	519.9	521.5	523.1	524.7	526.3	526.8	527.4	527.9	528.4	528.4
150°	529.1	529.5	531.1	532.6	534.1	535.6	536.2	536.8	537.3	538.0	538.1
152.5°	538.1	538.5	539.9	541.4	542.8	544.3	544.8	545.4	546.0	546.6	546.5
155°	551.2	551.4	552.5	553.6	554.8	555.9	556.5	557.1	557.6	558.3	558.2
157.5°	562.4	562.4	563.2	564.0	564.8	565.6	566.2	566.9	567.5	568.3	568.2
160°	569.2	569.2	569.8	570.4	570.9	571.5	572.1	572.6	573.2	573.8	573.7
162.5°	574.7	574.7	575.1	575.6	576.1	576.6	577.3	577.9	578.7	579.3	579.2
165°	582.1	582.0	582.3	582.6	582.9	583.1	583.8	584.5	585.1	585.8	585.8
167.5°	587.6	587.5	587.7	588.0	588.3	588.5	589.3	590.0	590.6	591.3	591.2
170°	590.8	590.6	590.8	591.0	591.2	591.4	592.0	592.7	593.4	594.0	593.9
172.5°	592.8	592.7	592.8	593.0	593.2	593.4	594.1	594.7	595.4	596.1	596.0
175°	595.1	594.9	595.1	595.3	595.4	595.6	596.3	597.0	597.6	598.3	598.2
177.5°	596.1	595.8	595.9	596.0	596.1	596.1	596.7	597.2	597.7	598.3	598.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331825-840

CATALOG NUMBER: S122RDIW-S865D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	9.2	8.7	9.3	8.8	9.3	8.7	9.2	9.2	9.6	9.5	9.4
90°	11.1	11.3	11.5	11.6	11.5	11.3	11.1	10.9	10.5	10.1	9.6
92.5°	11.3	11.4	11.5	11.6	11.5	11.4	11.3	11.2	11.0	10.8	10.5
95°	18.9	18.8	18.7	18.6	18.7	18.8	18.9	19.0	18.8	18.3	17.8
97.5°	24.4	24.5	24.6	24.7	24.6	24.5	24.4	24.3	24.0	23.7	23.3
100°	28.4	28.6	28.7	28.9	28.7	28.6	28.4	28.2	27.7	26.9	26.2
102.5°	30.2	30.5	30.7	31.0	30.7	30.5	30.2	29.9	29.3	28.3	27.3
105°	31.6	32.0	32.4	32.8	32.4	32.0	31.6	31.3	30.6	29.5	28.5
107.5°	32.6	33.0	33.3	33.7	33.3	33.0	32.6	32.2	32.5	33.6	34.7
110°	32.9	33.3	33.7	34.1	33.7	33.3	32.9	32.5	37.2	46.8	56.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.5	33.8	34.1	34.4	34.1	33.8	33.5	33.2	50.6	85.5	120.6
115°	56.1	49.2	42.3	35.3	42.3	49.2	56.1	63.0	88.7	133.1	177.5
117.5°	212.6	189.9	167.2	144.5	167.2	189.9	212.6	235.3	252.0	262.8	273.5
120°	302.2	289.2	276.2	263.3	276.2	289.2	302.2	315.1	321.0	319.8	318.7
122.5°	336.1	333.6	331.0	328.5	331.0	333.6	336.1	338.6	339.5	338.8	338.1
125°	368.2	368.5	368.8	369.0	368.8	368.5	368.2	367.9	367.4	366.8	366.1
127.5°	394.5	394.5	394.6	394.6	394.6	394.5	394.5	394.4	393.8	392.8	391.9
130°	410.8	410.7	410.6	410.5	410.6	410.7	410.8	410.9	410.4	409.3	408.3
132.5°	426.3	426.2	426.2	426.1	426.2	426.2	426.3	426.4	426.0	425.1	424.2
135°	449.1	448.9	448.7	448.5	448.7	448.9	449.1	449.2	448.9	447.9	447.0
137.5°	469.9	469.6	469.3	468.9	469.3	469.6	469.9	470.2	469.9	469.0	468.1
140°	483.1	482.6	482.2	481.7	482.2	482.6	483.1	483.6	483.4	482.6	481.7
142.5°	495.5	495.1	494.6	494.1	494.6	495.1	495.5	496.0	495.9	495.1	494.3
145°	512.9	512.4	512.0	511.5	512.0	512.4	512.9	513.4	513.3	512.6	512.0
147.5°	528.0	527.6	527.1	526.7	527.1	527.6	528.0	528.4	528.4	527.9	527.4
150°	537.6	537.0	536.5	536.1	536.5	537.0	537.6	538.1	538.0	537.3	536.8
152.5°	545.9	545.3	544.6	544.0	544.6	545.3	545.9	546.5	546.6	546.0	545.4
155°	557.3	556.6	555.8	555.1	555.8	556.6	557.3	558.2	558.3	557.6	557.1
157.5°	567.4	566.6	565.9	565.2	565.9	566.6	567.4	568.2	568.3	567.5	566.9
160°	573.1	572.4	571.7	571.1	571.7	572.4	573.1	573.7	573.8	573.2	572.6
162.5°	578.3	577.5	576.7	575.9	576.7	577.5	578.3	579.2	579.3	578.7	577.9
165°	585.1	584.5	583.8	583.1	583.8	584.5	585.1	585.8	585.8	585.1	584.5
167.5°	590.3	589.5	588.5	587.7	588.5	589.5	590.3	591.2	591.3	590.6	590.0
170°	593.1	592.2	591.4	590.5	591.4	592.2	593.1	593.9	594.0	593.4	592.7
172.5°	595.1	594.3	593.4	592.6	593.4	594.3	595.1	596.0	596.1	595.4	594.7
175°	597.2	596.3	595.3	594.4	595.3	596.3	597.2	598.2	598.3	597.6	597.0
177.5°	597.5	596.8	596.1	595.5	596.1	596.8	597.5	598.2	598.3	597.7	597.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331825-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	9.9	9.8	10.2	10.0	9.8	10.8	11.1	11.4	12.3	13.7	15.7
90°	9.1	8.6	7.9	7.1	6.4	5.6	4.6	3.6	2.5	1.5	0.4
92.5°	10.3	10.0	9.6	9.3	8.9	8.5	8.4	8.4	8.5	8.6	8.7
95°	17.3	16.9	16.2	15.5	14.8	14.1	15.3	18.6	21.7	24.8	28.1
97.5°	22.9	22.5	21.0	19.4	17.9	16.4	20.0	28.9	37.9	46.8	55.6
100°	25.3	24.6	22.9	21.3	19.7	18.1	23.8	37.0	50.1	63.2	76.4
102.5°	26.3	25.2	39.0	52.6	66.2	79.9	88.1	90.9	93.6	96.4	99.2
105°	27.4	26.4	52.5	78.7	104.9	131.1	142.7	139.9	136.9	134.1	131.2
107.5°	35.7	36.9	68.3	99.7	131.1	162.5	177.0	174.7	172.4	170.1	167.7
110°	65.9	75.5	103.2	131.0	158.6	186.4	199.2	197.2	195.2	193.2	191.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	155.5	190.6	197.3	204.2	211.1	217.9	220.5	218.6	216.9	215.1	213.3
115°	221.9	266.3	263.9	261.6	259.1	256.7	254.7	253.1	251.5	249.8	248.2
117.5°	284.3	295.0	293.4	291.6	290.0	288.4	286.6	284.8	283.0	281.1	279.3
120°	317.5	316.4	314.7	313.0	311.2	309.5	307.9	306.5	305.0	303.6	302.2
122.5°	337.5	336.8	334.9	333.0	331.1	329.2	327.5	326.0	324.5	323.0	321.4
125°	365.4	364.8	362.9	361.1	359.3	357.4	355.9	354.7	353.5	352.1	350.9
127.5°	390.9	389.9	388.6	387.2	385.9	384.5	383.1	381.7	380.3	379.0	377.6
130°	407.2	406.2	405.2	404.0	403.0	401.9	400.6	399.1	397.6	396.1	394.6
132.5°	423.3	422.4	421.3	420.3	419.2	418.2	417.0	415.7	414.3	413.0	411.8
135°	446.0	445.0	444.1	443.3	442.4	441.5	440.4	438.8	437.3	435.8	434.2
137.5°	467.1	466.2	465.1	464.2	463.2	462.2	461.2	460.2	459.1	458.0	457.0
140°	480.8	480.0	478.9	477.9	476.9	475.7	474.8	474.0	473.3	472.5	471.8
142.5°	493.5	492.7	491.5	490.3	489.1	488.0	487.0	486.3	485.5	484.9	484.2
145°	511.3	510.6	509.0	507.4	505.7	504.1	503.3	503.4	503.5	503.6	503.7
147.5°	526.8	526.3	524.7	523.1	521.5	519.9	519.3	519.7	520.0	520.4	520.7
150°	536.2	535.6	534.1	532.6	531.1	529.5	529.1	529.8	530.4	531.1	531.8
152.5°	544.8	544.3	542.8	541.4	539.9	538.5	538.1	538.9	539.6	540.4	541.1
155°	556.5	555.9	554.8	553.6	552.5	551.4	551.2	552.1	552.9	553.8	554.6
157.5°	566.2	565.6	564.8	564.0	563.2	562.4	562.4	563.1	563.8	564.5	565.2
160°	572.1	571.5	570.9	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5
162.5°	577.3	576.6	576.1	575.6	575.1	574.7	574.7	575.3	575.8	576.4	577.0
165°	583.8	583.1	582.9	582.6	582.3	582.0	582.1	582.7	583.3	583.9	584.4
167.5°	589.3	588.5	588.3	588.0	587.7	587.5	587.6	588.2	588.9	589.4	590.0
170°	592.0	591.4	591.2	591.0	590.8	590.6	590.8	591.4	591.9	592.5	593.1
172.5°	594.1	593.4	593.2	593.0	592.8	592.7	592.8	593.4	594.0	594.6	595.1
175°	596.3	595.6	595.4	595.3	595.1	594.9	595.1	595.8	596.4	597.1	597.8
177.5°	596.7	596.1	596.1	596.0	595.9	595.8	596.1	596.6	597.1	597.7	598.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.1	10.7	10.4	10.0	10.8	10.9	10.5	10.7	11.4	10.9	11.6
90°	1.5	2.5	3.6	4.6	5.6	6.4	7.1	7.9	8.6	9.1	9.6
92.5°	8.6	8.5	8.4	8.4	8.5	8.9	9.3	9.6	10.0	10.3	10.5
95°	24.8	21.7	18.6	15.3	14.1	14.8	15.5	16.2	16.9	17.3	17.8
97.5°	46.8	37.9	28.9	20.0	16.4	17.9	19.4	21.0	22.5	22.9	23.3
100°	63.2	50.1	37.0	23.8	18.1	19.7	21.3	22.9	24.6	25.3	26.2
102.5°	96.4	93.6	90.9	88.1	79.9	66.2	52.6	39.0	25.2	26.3	27.3
105°	134.1	136.9	139.9	142.7	131.1	104.9	78.7	52.5	26.4	27.4	28.5
107.5°	170.1	172.4	174.7	177.0	162.5	131.1	99.7	68.3	36.9	35.7	34.7
110°	193.2	195.2	197.2	199.2	186.4	158.6	131.0	103.2	75.5	65.9	56.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	215.1	216.9	218.6	220.5	217.9	211.1	204.2	197.3	190.6	155.5	120.6
115°	249.8	251.5	253.1	254.7	256.7	259.1	261.6	263.9	266.3	221.9	177.5
117.5°	281.1	283.0	284.8	286.6	288.4	290.0	291.6	293.4	295.0	284.3	273.5
120°	303.6	305.0	306.5	307.9	309.5	311.2	313.0	314.7	316.4	317.5	318.7
122.5°	323.0	324.5	326.0	327.5	329.2	331.1	333.0	334.9	336.8	337.5	338.1
125°	352.1	353.5	354.7	355.9	357.4	359.3	361.1	362.9	364.8	365.4	366.1
127.5°	379.0	380.3	381.7	383.1	384.5	385.9	387.2	388.6	389.9	390.9	391.9
130°	396.1	397.6	399.1	400.6	401.9	403.0	404.0	405.2	406.2	407.2	408.3
132.5°	413.0	414.3	415.7	417.0	418.2	419.2	420.3	421.3	422.4	423.3	424.2
135°	435.8	437.3	438.8	440.4	441.5	442.4	443.3	444.1	445.0	446.0	447.0
137.5°	458.0	459.1	460.2	461.2	462.2	463.2	464.2	465.1	466.2	467.1	468.1
140°	472.5	473.3	474.0	474.8	475.7	476.9	477.9	478.9	480.0	480.8	481.7
142.5°	484.9	485.5	486.3	487.0	488.0	489.1	490.3	491.5	492.7	493.5	494.3
145°	503.6	503.5	503.4	503.3	504.1	505.7	507.4	509.0	510.6	511.3	512.0
147.5°	520.4	520.0	519.7	519.3	519.9	521.5	523.1	524.7	526.3	526.8	527.4
150°	531.1	530.4	529.8	529.1	529.5	531.1	532.6	534.1	535.6	536.2	536.8
152.5°	540.4	539.6	538.9	538.1	538.5	539.9	541.4	542.8	544.3	544.8	545.4
155°	553.8	552.9	552.1	551.2	551.4	552.5	553.6	554.8	555.9	556.5	557.1
157.5°	564.5	563.8	563.1	562.4	562.4	563.2	564.0	564.8	565.6	566.2	566.9
160°	570.9	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5	572.1	572.6
162.5°	576.4	575.8	575.3	574.7	574.7	575.1	575.6	576.1	576.6	577.3	577.9
165°	583.9	583.3	582.7	582.1	582.0	582.3	582.6	582.9	583.1	583.8	584.5
167.5°	589.4	588.9	588.2	587.6	587.5	587.7	588.0	588.3	588.5	589.3	590.0
170°	592.5	591.9	591.4	590.8	590.6	590.8	591.0	591.2	591.4	592.0	592.7
172.5°	594.6	594.0	593.4	592.8	592.7	592.8	593.0	593.2	593.4	594.1	594.7
175°	597.1	596.4	595.8	595.1	594.9	595.1	595.3	595.4	595.6	596.3	597.0
177.5°	597.7	597.1	596.6	596.1	595.8	595.9	596.0	596.1	596.1	596.7	597.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	11.1	11.2	11.3	11.3	11.4	11.4	10.9
90°	10.1	10.5	10.9	11.1	11.3	11.5	11.6
92.5°	10.8	11.0	11.2	11.3	11.4	11.5	11.6
95°	18.3	18.8	19.0	18.9	18.8	18.7	18.6
97.5°	23.7	24.0	24.3	24.4	24.5	24.6	24.7
100°	26.9	27.7	28.2	28.4	28.6	28.7	28.9
102.5°	28.3	29.3	29.9	30.2	30.5	30.7	31.0
105°	29.5	30.6	31.3	31.6	32.0	32.4	32.8
107.5°	33.6	32.5	32.2	32.6	33.0	33.3	33.7
110°	46.8	37.2	32.5	32.9	33.3	33.7	34.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	85.5	50.6	33.2	33.5	33.8	34.1	34.4
115°	133.1	88.7	63.0	56.1	49.2	42.3	35.3
117.5°	262.8	252.0	235.3	212.6	189.9	167.2	144.5
120°	319.8	321.0	315.1	302.2	289.2	276.2	263.3
122.5°	338.8	339.5	338.6	336.1	333.6	331.0	328.5
125°	366.8	367.4	367.9	368.2	368.5	368.8	369.0
127.5°	392.8	393.8	394.4	394.5	394.5	394.6	394.6
130°	409.3	410.4	410.9	410.8	410.7	410.6	410.5
132.5°	425.1	426.0	426.4	426.3	426.2	426.2	426.1
135°	447.9	448.9	449.2	449.1	448.9	448.7	448.5
137.5°	469.0	469.9	470.2	469.9	469.6	469.3	468.9
140°	482.6	483.4	483.6	483.1	482.6	482.2	481.7
142.5°	495.1	495.9	496.0	495.5	495.1	494.6	494.1
145°	512.6	513.3	513.4	512.9	512.4	512.0	511.5
147.5°	527.9	528.4	528.4	528.0	527.6	527.1	526.7
150°	537.3	538.0	538.1	537.6	537.0	536.5	536.1
152.5°	546.0	546.6	546.5	545.9	545.3	544.6	544.0
155°	557.6	558.3	558.2	557.3	556.6	555.8	555.1
157.5°	567.5	568.3	568.2	567.4	566.6	565.9	565.2
160°	573.2	573.8	573.7	573.1	572.4	571.7	571.1
162.5°	578.7	579.3	579.2	578.3	577.5	576.7	575.9
165°	585.1	585.8	585.8	585.1	584.5	583.8	583.1
167.5°	590.6	591.3	591.2	590.3	589.5	588.5	587.7
170°	593.4	594.0	593.9	593.1	592.2	591.4	590.5
172.5°	595.4	596.1	596.0	595.1	594.3	593.4	592.6
175°	597.6	598.3	598.2	597.2	596.3	595.3	594.4
177.5°	597.7	598.3	598.2	597.5	596.8	596.1	595.5
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5

(END OF REPORT)