

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: CORELITE

Report Number: P303240

Luminaire Tested: **CTW-F-7525-50L840-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-7525-50L840-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
75% UPLIGHT, 25% DOWNLIGHT, 5000 LUMEN PACKAGE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7643.4 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: Semi-Indirect

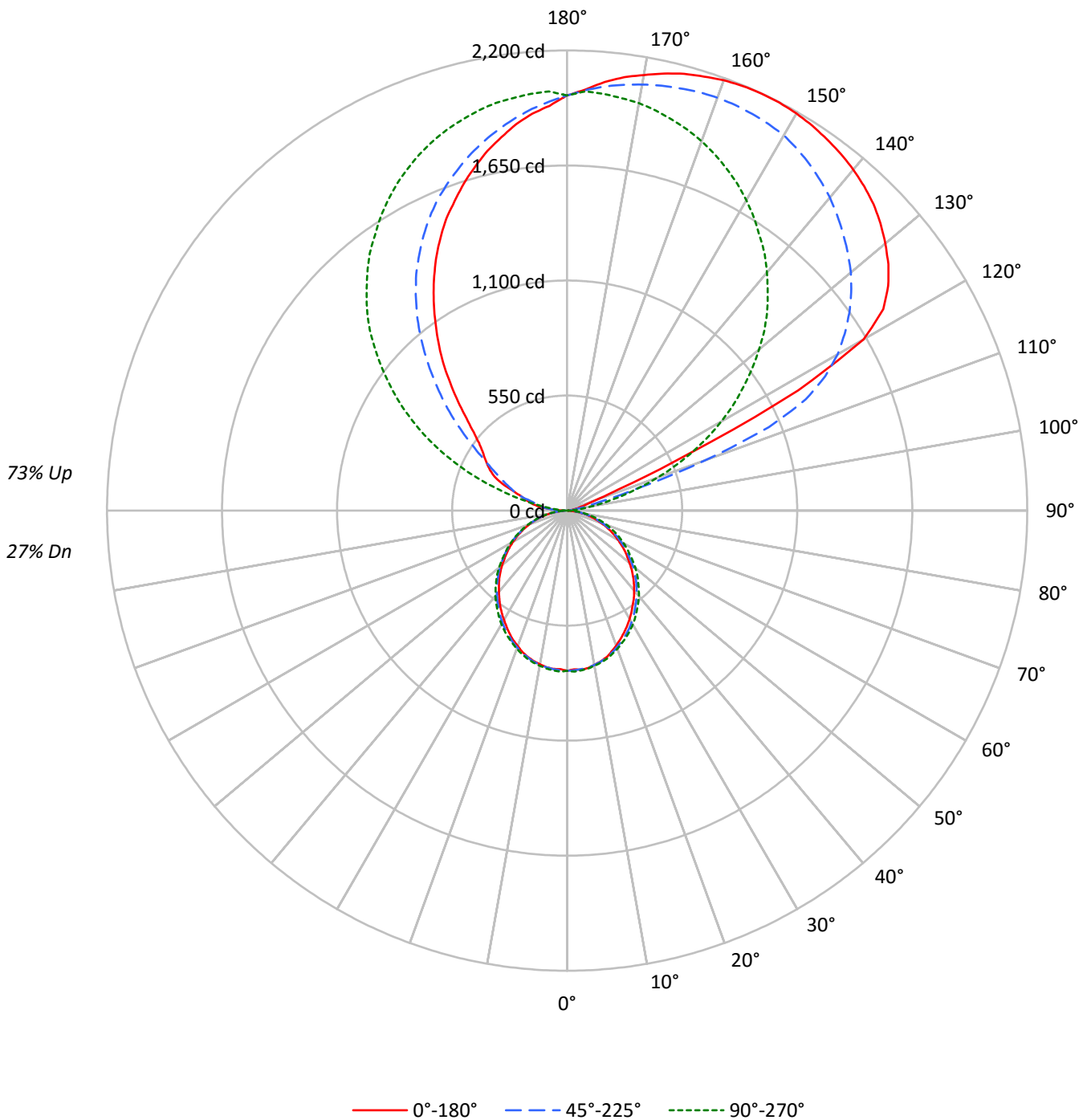
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	88	85	81	82	79	76	73	61	59	57	45	44	43	31	30	29	22
2	84	77	71	66	75	69	64	60	54	50	47	40	38	36	27	26	24	19
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	24	22	21	16
4	70	60	52	46	62	53	47	42	42	37	34	31	28	26	21	19	18	13
5	64	53	45	39	57	48	41	36	37	33	29	28	25	22	19	17	15	12
6	59	47	40	34	52	43	36	31	34	29	25	25	22	19	17	15	14	10
7	54	43	35	30	48	38	32	27	30	25	22	23	19	17	16	14	12	9
8	50	38	31	26	45	35	28	24	27	23	19	21	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10994	10994	10994
5°	10991	11057	10946
10°	10917	10984	10873
15°	10790	10903	10768
20°	10485	10741	10531
25°	10192	10580	10290
30°	9907	10414	10008
35°	9589	10179	9776
40°	9338	9997	9510
45°	9060	9744	9310
50°	8670	9489	9045
55°	8415	9143	8798
60°	8074	8953	8557
65°	7736	8721	8306
70°	7251	8468	8019
75°	6699	8223	7630
80°	5562	7579	6951
85°	3013	6801	5286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	0.9
10°-20°	204.5	2.7
20°-30°	301.9	3.9
30°-40°	354.2	4.6
40°-50°	359.2	4.7
50°-60°	318.3	4.2
60°-70°	243.6	3.2
70°-80°	144.6	1.9
80°-90°	40.1	0.5
90°-100°	55.9	0.7
100°-110°	237.6	3.1
110°-120°	676.3	8.8
120°-130°	988.4	12.9
130°-140°	1066.4	14.0
140°-150°	1015.1	13.3
150°-160°	832.9	10.9
160°-170°	543.8	7.1
170°-180°	188.4	2.5
0°-30°	578.6	7.6
0°-40°	932.8	12.2
0°-60°	1610.3	21.1
0°-90°	2038.6	26.7
90°-120°	969.8	12.7
90°-150°	4039.6	52.9
90°-180°	5605.0	73.3
0°-180°	7643.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	766	766	766	766	766	
5°	763	761	768	761	760	72
15°	726	728	734	728	725	204
25°	644	659	668	659	650	296
35°	547	567	581	570	558	343
45°	446	465	480	471	459	344
55°	336	352	365	364	352	300
65°	228	240	257	252	245	225
75°	121	128	148	142	138	127
85°	18	28	41	37	32	26
90°	3	3	2	11	17	2
95°	14	17	41	76	73	15
105°	66	167	268	185	208	77
115°	639	1258	657	341	382	743
125°	1874	1647	1027	563	494	1660
135°	2072	1867	1353	910	737	1598
145°	2166	2021	1604	1261	1098	1359
155°	2200	2093	1804	1552	1436	1017
165°	2162	2090	1936	1769	1702	613
175°	2056	2035	2000	1928	1905	198
180°	1984	1984	1984	1984	1984	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0
2.5°	759.8	759.8	761.4	764.4	764.4	764.4	766.0	767.5	766.0	769.0	764.4
5°	762.9	761.4	761.4	761.4	761.4	762.9	762.9	764.4	762.9	766.0	761.4
7.5°	759.8	758.3	758.3	756.8	755.3	755.3	756.8	758.3	756.8	759.8	756.8
10°	749.1	747.6	749.1	747.6	747.6	749.1	749.1	749.1	750.7	752.2	749.1
12.5°	738.4	738.4	736.9	736.9	736.9	736.9	738.4	740.0	740.0	741.5	740.0
15°	726.2	723.1	724.7	726.2	724.7	726.2	726.2	727.7	727.7	729.3	727.7
17.5°	706.3	706.3	707.9	709.4	709.4	709.4	710.9	710.9	712.4	714.0	712.4
20°	686.5	686.5	686.5	689.5	689.5	689.5	691.0	692.6	694.1	695.6	695.6
22.5°	665.0	665.0	665.0	668.1	668.1	668.1	671.2	672.7	674.2	675.8	677.3
25°	643.6	643.6	645.2	646.7	646.7	646.7	649.8	651.3	652.8	654.3	658.9
27.5°	620.7	620.7	622.2	623.8	625.3	626.8	628.4	629.9	632.9	634.5	639.1
30°	597.8	596.3	597.8	600.8	602.4	602.4	605.4	607.0	610.0	611.5	616.1
32.5°	573.3	571.8	573.3	576.4	577.9	577.9	581.0	582.5	585.5	587.1	593.2
35°	547.3	547.3	550.4	550.4	551.9	553.4	555.0	558.0	561.1	562.6	567.2
37.5°	524.4	522.9	525.9	525.9	527.5	529.0	530.5	533.6	536.6	539.7	542.7
40°	498.4	495.3	498.4	499.9	501.5	503.0	504.5	506.0	510.6	513.7	516.8
42.5°	472.4	469.4	472.4	473.9	477.0	477.0	477.0	480.1	484.6	487.7	490.8
45°	446.4	443.4	446.4	446.4	449.5	451.0	451.0	452.5	457.1	460.2	464.8
47.5°	418.9	418.9	420.4	422.0	423.5	423.5	425.0	426.5	429.6	435.7	437.3
50°	388.3	388.3	389.9	392.9	394.4	397.5	397.5	399.0	402.1	406.7	409.7
52.5°	362.3	360.8	362.3	363.9	365.4	366.9	366.9	368.5	371.5	376.1	379.2
55°	336.3	336.3	336.3	337.9	339.4	339.4	340.9	342.5	344.0	347.0	351.6
57.5°	308.8	308.8	310.4	310.4	311.9	311.9	313.4	314.9	316.5	319.5	324.1
60°	281.3	282.8	281.3	282.8	284.4	284.4	285.9	287.4	289.0	292.0	296.6
62.5°	255.3	255.3	255.3	255.3	256.8	256.8	258.4	259.9	263.0	264.5	267.5
65°	227.8	227.8	227.8	227.8	230.9	230.9	230.9	233.9	235.4	235.4	240.0
67.5°	200.3	201.8	200.3	201.8	203.3	203.3	203.3	206.4	207.9	209.5	211.0
70°	172.8	174.3	174.3	174.3	175.8	175.8	175.8	178.9	180.4	181.9	183.5
72.5°	146.8	146.8	148.3	148.3	148.3	148.3	149.8	151.4	152.9	154.4	155.9
75°	120.8	120.8	120.8	120.8	122.3	122.3	122.3	125.4	126.9	128.4	128.4
77.5°	93.3	94.8	93.3	93.3	94.8	94.8	96.3	97.8	99.4	102.4	104.0
80°	67.3	67.3	68.8	68.8	70.3	68.8	70.3	71.9	73.4	76.4	76.4
82.5°	42.8	42.8	42.8	44.3	44.3	45.9	45.9	45.9	47.4	50.5	52.0
85°	18.3	18.3	18.3	18.3	21.4	21.4	21.4	22.9	24.5	26.0	27.5
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6
90°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
92.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
95°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	15.3	15.3	16.8
97.5°	21.4	21.4	21.4	21.4	21.4	22.9	22.9	24.5	26.0	27.5	30.6
100°	32.1	32.1	33.6	33.6	33.6	35.2	35.2	38.2	41.3	45.9	53.5
102.5°	47.4	45.9	47.4	47.4	48.9	50.5	52.0	56.6	62.7	73.4	90.2
105°	65.7	64.2	65.7	67.3	70.3	73.4	76.4	85.6	99.4	123.8	166.6
107.5°	93.3	91.7	94.8	99.4	105.5	113.1	120.8	137.6	180.4	249.2	351.6
110°	137.6	143.7	149.8	163.6	183.5	204.9	218.6	292.0	382.2	530.5	700.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	264.5	284.4	302.7	348.6	412.8	472.4	507.6	671.2	808.8	954.0	1044.2
115°	639.1	686.5	701.7	817.9	915.8	996.8	1032.0	1166.5	1226.1	1255.2	1258.2
117.5°	1246.0	1290.3	1290.3	1359.1	1414.2	1440.2	1443.2	1457.0	1446.3	1427.9	1391.3
120°	1635.9	1638.9	1645.0	1643.5	1645.0	1642.0	1631.3	1611.4	1574.7	1536.5	1492.2
122.5°	1791.8	1788.8	1784.2	1770.4	1755.1	1745.9	1729.1	1700.1	1663.4	1619.0	1573.2
125°	1874.4	1869.8	1863.7	1849.9	1830.0	1822.4	1802.5	1770.4	1733.7	1690.9	1646.6
127.5°	1935.5	1930.9	1923.3	1911.1	1891.2	1882.0	1863.7	1830.0	1794.9	1756.6	1712.3
130°	1986.0	1981.4	1973.7	1966.1	1947.8	1935.5	1918.7	1885.1	1853.0	1813.2	1770.4
132.5°	2031.8	2025.7	2018.1	2012.0	1993.6	1984.4	1966.1	1935.5	1903.4	1865.2	1820.9
135°	2071.6	2063.9	2054.8	2048.7	2031.8	2021.1	2004.3	1976.8	1946.2	1909.5	1866.7
137.5°	2102.2	2094.5	2086.9	2077.7	2063.9	2048.7	2039.5	2015.0	1984.4	1950.8	1912.6
140°	2128.2	2122.0	2114.4	2108.3	2093.0	2077.7	2068.5	2047.1	2018.1	1989.0	1953.9
142.5°	2149.6	2145.0	2137.3	2129.7	2115.9	2102.2	2094.5	2074.6	2051.7	2021.1	1989.0
145°	2166.4	2161.8	2155.7	2149.6	2135.8	2125.1	2115.9	2102.2	2079.2	2048.7	2021.1
147.5°	2181.7	2177.1	2172.5	2166.4	2152.6	2145.0	2137.3	2122.0	2099.1	2071.6	2048.7
150°	2192.4	2187.8	2183.2	2178.6	2164.8	2157.2	2152.6	2137.3	2117.5	2089.9	2071.6
152.5°	2198.5	2193.9	2189.3	2186.3	2172.5	2164.8	2160.3	2146.5	2126.6	2102.2	2083.8
155°	2200.0	2197.0	2192.4	2187.8	2174.0	2164.8	2163.3	2149.6	2132.7	2109.8	2093.0
157.5°	2197.0	2192.4	2187.8	2183.2	2169.4	2163.3	2160.3	2149.6	2134.3	2115.9	2099.1
160°	2189.3	2184.7	2183.2	2177.1	2166.4	2161.8	2158.7	2149.6	2135.8	2119.0	2100.6
162.5°	2175.5	2174.0	2172.5	2167.9	2160.3	2155.7	2154.1	2145.0	2131.2	2117.5	2097.6
165°	2161.8	2158.7	2155.7	2151.1	2145.0	2141.9	2138.9	2132.7	2119.0	2109.8	2089.9
167.5°	2140.4	2135.8	2132.7	2128.2	2120.5	2122.0	2119.0	2115.9	2105.2	2100.6	2080.8
170°	2114.4	2112.9	2108.3	2105.2	2100.6	2102.2	2100.6	2097.6	2088.4	2085.3	2068.5
172.5°	2089.9	2085.3	2083.8	2080.8	2076.2	2074.6	2076.2	2073.1	2068.5	2070.1	2053.2
175°	2056.3	2051.7	2051.7	2048.7	2045.6	2047.1	2048.7	2050.2	2044.1	2050.2	2034.9
177.5°	2015.0	2012.0	2015.0	2018.1	2016.5	2019.6	2021.1	2022.7	2019.6	2025.7	2012.0
180°	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0
2.5°	761.4	761.4	761.4	761.4	761.4	761.4	761.4	764.4	769.0	770.5	769.0
5°	758.3	759.8	758.3	759.8	759.8	759.8	759.8	762.9	766.0	767.5	766.0
7.5°	753.7	755.3	753.7	753.7	755.3	753.7	755.3	756.8	759.8	761.4	759.8
10°	746.1	746.1	746.1	747.6	747.6	747.6	747.6	750.7	753.7	753.7	752.2
12.5°	735.4	736.9	736.9	738.4	738.4	736.9	738.4	741.5	743.0	744.5	743.0
15°	724.7	724.7	724.7	726.2	726.2	726.2	726.2	729.3	732.3	733.8	732.3
17.5°	707.9	709.4	709.4	710.9	710.9	712.4	710.9	715.5	717.0	718.6	717.0
20°	692.6	692.6	694.1	694.1	695.6	695.6	695.6	698.7	701.7	703.3	701.7
22.5°	674.2	675.8	675.8	677.3	678.8	677.3	678.8	681.9	683.4	684.9	684.9
25°	654.3	655.9	655.9	658.9	658.9	658.9	658.9	662.0	665.0	668.1	666.6
27.5°	634.5	634.5	636.0	639.1	639.1	640.6	640.6	643.6	646.7	648.2	646.7
30°	613.1	613.1	614.6	616.1	617.7	617.7	619.2	622.2	625.3	628.4	625.3
32.5°	591.7	590.1	593.2	594.7	596.3	596.3	596.3	600.8	602.4	605.4	603.9
35°	567.2	565.7	568.7	570.3	571.8	571.8	574.8	576.4	579.4	581.0	579.4
37.5°	544.3	542.7	545.8	547.3	547.3	548.9	550.4	553.4	556.5	558.0	558.0
40°	519.8	518.3	519.8	522.9	522.9	524.4	525.9	527.5	529.0	533.6	532.0
42.5°	495.3	493.8	495.3	496.9	498.4	498.4	501.5	501.5	506.0	506.0	506.0
45°	466.3	467.8	469.4	472.4	472.4	470.9	473.9	475.5	480.1	480.1	478.5
47.5°	440.3	441.8	441.8	446.4	446.4	444.9	448.0	449.5	452.5	454.1	452.5
50°	412.8	414.3	415.8	418.9	418.9	418.9	420.4	423.5	425.0	425.0	425.0
52.5°	380.7	382.2	385.3	389.9	389.9	389.9	392.9	392.9	396.0	396.0	397.5
55°	353.2	354.7	357.8	360.8	360.8	362.3	363.9	365.4	366.9	365.4	366.9
57.5°	325.6	328.7	331.8	333.3	333.3	334.8	336.3	337.9	339.4	339.4	339.4
60°	298.1	299.7	301.2	305.8	305.8	307.3	308.8	310.4	310.4	311.9	311.9
62.5°	270.6	273.7	275.2	276.7	279.8	278.3	281.3	281.3	282.8	284.4	284.4
65°	241.6	243.1	246.1	249.2	249.2	250.7	253.8	253.8	255.3	256.8	256.8
67.5°	214.0	218.6	218.6	221.7	223.2	223.2	224.7	227.8	227.8	229.3	229.3
70°	185.0	189.6	191.1	192.6	194.2	195.7	197.2	198.8	200.3	201.8	201.8
72.5°	159.0	162.1	163.6	165.1	166.6	166.6	169.7	169.7	172.8	174.3	174.3
75°	130.0	133.0	134.5	137.6	139.1	140.7	142.2	142.2	145.2	148.3	146.8
77.5°	105.5	107.0	108.5	110.1	111.6	113.1	114.7	116.2	117.7	119.3	119.3
80°	79.5	81.0	81.0	84.1	85.6	87.1	88.7	90.2	90.2	91.7	93.3
82.5°	53.5	55.0	56.6	58.1	59.6	61.2	62.7	64.2	64.2	65.7	65.7
85°	29.0	30.6	32.1	33.6	35.2	36.7	38.2	39.8	39.8	41.3	41.3
87.5°	6.1	7.6	9.2	10.7	12.2	13.8	15.3	16.8	16.8	18.3	18.3
90°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5
92.5°	7.6	9.2	9.2	12.2	13.8	15.3	18.3	21.4	18.3	15.3	16.8
95°	18.3	22.9	27.5	36.7	42.8	48.9	58.1	58.1	47.4	41.3	38.2
97.5°	36.7	45.9	61.2	82.6	96.3	105.5	116.2	110.1	91.7	76.4	68.8
100°	65.7	88.7	117.7	165.1	185.0	195.7	198.8	181.9	151.4	126.9	110.1
102.5°	117.7	171.2	237.0	296.6	314.9	318.0	298.1	267.5	226.3	189.6	163.6
105°	233.9	337.9	420.4	470.9	477.0	466.3	420.4	371.5	316.5	267.5	227.8
107.5°	493.8	600.8	643.6	646.7	632.9	607.0	548.9	492.3	415.8	356.2	304.2
110°	817.9	854.6	836.3	799.6	772.1	730.8	663.5	600.8	519.8	457.1	394.4



TEST NUMBER: P303240

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	1058.0	1039.6	990.7	925.0	886.7	850.0	779.7	710.9	623.8	558.0	490.8
115°	1221.5	1172.6	1109.9	1036.6	993.8	960.1	889.8	807.2	724.7	657.4	587.1
117.5°	1339.3	1273.5	1209.3	1140.5	1100.8	1062.5	990.7	909.7	822.5	756.8	684.9
120°	1429.5	1366.8	1299.5	1233.8	1192.5	1160.4	1088.5	1002.9	920.4	848.5	784.3
122.5°	1512.0	1447.8	1385.1	1322.5	1285.8	1249.1	1171.1	1088.5	1009.0	943.3	876.0
125°	1586.9	1522.7	1463.1	1403.5	1363.7	1325.5	1249.1	1172.6	1096.2	1027.4	967.8
127.5°	1655.7	1596.1	1535.0	1478.4	1437.1	1398.9	1325.5	1250.6	1181.8	1114.5	1054.9
130°	1716.9	1663.4	1603.8	1547.2	1504.4	1467.7	1397.4	1327.0	1261.3	1197.1	1135.9
132.5°	1773.5	1723.0	1666.4	1605.3	1564.0	1531.9	1466.2	1398.9	1339.3	1279.6	1217.0
135°	1827.0	1773.5	1718.4	1658.8	1620.6	1591.5	1525.8	1463.1	1408.1	1353.0	1294.9
137.5°	1877.4	1816.3	1764.3	1706.2	1672.6	1645.0	1585.4	1527.3	1475.3	1418.8	1366.8
140°	1915.6	1857.5	1804.0	1749.0	1721.5	1697.0	1638.9	1585.4	1538.0	1486.0	1435.6
142.5°	1949.3	1891.2	1843.8	1790.3	1764.3	1742.9	1689.4	1640.5	1597.6	1550.3	1499.8
145°	1975.3	1921.8	1879.0	1830.0	1807.1	1785.7	1733.7	1690.9	1651.2	1603.8	1559.4
147.5°	1999.7	1950.8	1911.1	1865.2	1846.8	1825.4	1778.0	1739.8	1703.1	1661.9	1617.5
150°	2019.6	1976.8	1938.6	1897.3	1880.5	1860.6	1817.8	1782.6	1749.0	1713.8	1672.6
152.5°	2034.9	1998.2	1964.6	1926.3	1911.1	1892.7	1856.0	1825.4	1794.9	1761.2	1723.0
155°	2045.6	2016.5	1986.0	1953.9	1937.0	1923.3	1888.1	1862.1	1836.1	1804.0	1768.9
157.5°	2056.3	2030.3	1999.7	1972.2	1960.0	1944.7	1915.6	1894.2	1871.3	1843.8	1811.7
160°	2060.9	2039.5	2012.0	1989.0	1978.3	1966.1	1938.6	1921.8	1901.9	1879.0	1849.9
162.5°	2062.4	2044.1	2021.1	2002.8	1993.6	1982.9	1958.5	1944.7	1929.4	1909.5	1882.0
165°	2062.4	2047.1	2028.8	2013.5	2005.8	1996.7	1975.3	1964.6	1950.8	1935.5	1911.1
167.5°	2057.8	2045.6	2030.3	2018.1	2012.0	2002.8	1987.5	1981.4	1970.7	1958.5	1938.6
170°	2050.2	2041.0	2028.8	2021.1	2015.0	2007.4	1996.7	1992.1	1987.5	1978.3	1958.5
172.5°	2039.5	2031.8	2022.7	2018.1	2015.0	2008.9	1998.2	1999.7	1996.7	1989.0	1975.3
175°	2024.2	2019.6	2015.0	2012.0	2008.9	2004.3	1998.2	2001.3	2002.8	1999.7	1987.5
177.5°	2004.3	2002.8	2001.3	2001.3	1996.7	1996.7	1993.6	1999.7	2005.8	2005.8	1996.7
180°	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0
2.5°	766.0	762.9	761.4	761.4	761.4	759.8	759.8	761.4	764.4	769.0	764.4
5°	764.4	759.8	759.8	759.8	759.8	758.3	756.8	758.3	761.4	766.0	761.4
7.5°	758.3	755.3	753.7	753.7	753.7	752.2	752.2	752.2	755.3	759.8	755.3
10°	750.7	747.6	747.6	747.6	746.1	744.5	744.5	744.5	749.1	752.2	747.6
12.5°	741.5	738.4	738.4	736.9	736.9	735.4	733.8	735.4	740.0	741.5	738.4
15°	729.3	726.2	726.2	726.2	724.7	724.7	723.1	723.1	727.7	729.3	726.2
17.5°	715.5	712.4	710.9	712.4	710.9	709.4	709.4	709.4	712.4	714.0	709.4
20°	698.7	695.6	695.6	694.1	694.1	692.6	692.6	692.6	697.2	695.6	692.6
22.5°	681.9	678.8	678.8	677.3	677.3	675.8	674.2	674.2	680.3	675.8	674.2
25°	663.5	660.5	660.5	658.9	657.4	655.9	655.9	655.9	658.9	655.9	654.3
27.5°	645.2	642.1	642.1	640.6	639.1	636.0	636.0	636.0	640.6	636.0	636.0
30°	622.2	620.7	620.7	619.2	616.1	614.6	614.6	616.1	619.2	614.6	613.1
32.5°	600.8	597.8	597.8	597.8	594.7	593.2	593.2	594.7	596.3	591.7	590.1
35°	576.4	574.8	574.8	573.3	570.3	570.3	568.7	570.3	570.3	567.2	565.7
37.5°	553.4	551.9	550.4	550.4	547.3	547.3	547.3	548.9	547.3	544.3	542.7
40°	529.0	527.5	525.9	524.4	522.9	522.9	522.9	525.9	522.9	519.8	518.3
42.5°	504.5	503.0	501.5	499.9	498.4	498.4	498.4	499.9	496.9	495.3	493.8
45°	477.0	477.0	475.5	473.9	473.9	473.9	472.4	473.9	470.9	469.4	466.3
47.5°	451.0	451.0	449.5	449.5	448.0	448.0	448.0	448.0	444.9	444.9	441.8
50°	425.0	423.5	422.0	423.5	423.5	422.0	422.0	420.4	418.9	418.9	414.3
52.5°	396.0	397.5	392.9	394.4	396.0	392.9	392.9	391.4	391.4	388.3	385.3
55°	366.9	366.9	366.9	366.9	368.5	365.4	363.9	362.3	363.9	360.8	357.8
57.5°	339.4	339.4	339.4	339.4	340.9	337.9	336.3	337.9	336.3	333.3	331.8
60°	313.4	311.9	311.9	311.9	313.4	310.4	310.4	308.8	308.8	304.2	304.2
62.5°	285.9	284.4	285.9	284.4	285.9	284.4	281.3	282.8	281.3	278.3	276.7
65°	258.4	256.8	258.4	256.8	256.8	255.3	253.8	253.8	252.3	250.7	249.2
67.5°	230.9	229.3	229.3	229.3	230.9	227.8	229.3	226.3	224.7	224.7	221.7
70°	201.8	201.8	201.8	200.3	201.8	198.8	198.8	198.8	197.2	195.7	194.2
72.5°	175.8	174.3	174.3	172.8	174.3	172.8	171.2	171.2	169.7	169.7	168.2
75°	146.8	146.8	146.8	146.8	146.8	145.2	143.7	143.7	142.2	142.2	140.7
77.5°	119.3	119.3	119.3	119.3	119.3	119.3	116.2	116.2	116.2	116.2	113.1
80°	93.3	93.3	93.3	91.7	93.3	91.7	90.2	90.2	90.2	88.7	87.1
82.5°	67.3	67.3	67.3	65.7	67.3	65.7	65.7	64.2	62.7	62.7	59.6
85°	41.3	42.8	42.8	41.3	41.3	41.3	41.3	38.2	36.7	36.7	35.2
87.5°	18.3	18.3	18.3	16.8	16.8	16.8	15.3	15.3	13.8	13.8	13.8
90°	3.1	4.6	6.1	7.6	7.6	9.2	10.7	10.7	10.7	10.7	12.2
92.5°	24.5	32.1	33.6	36.7	35.2	36.7	36.7	35.2	36.7	33.6	35.2
95°	42.8	48.9	59.6	65.7	70.3	78.0	81.0	79.5	76.4	74.9	76.4
97.5°	67.3	73.4	78.0	79.5	82.6	93.3	104.0	111.6	117.7	120.8	123.8
100°	104.0	99.4	105.5	110.1	113.1	111.6	116.2	125.4	133.0	139.1	145.2
102.5°	149.8	137.6	133.0	136.1	140.7	149.8	149.8	148.3	151.4	155.9	165.1
105°	203.3	186.5	174.3	172.8	172.8	178.9	189.6	194.2	185.0	185.0	188.0
107.5°	269.1	241.6	223.2	217.1	215.6	212.5	220.2	232.4	240.0	238.5	229.3
110°	344.0	307.3	281.3	270.6	264.5	255.3	256.8	261.4	270.6	282.8	290.5



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	432.7	386.8	347.0	333.3	318.0	305.8	296.6	298.1	302.7	311.9	322.6
115°	525.9	473.9	423.5	405.1	386.8	359.3	344.0	339.4	340.9	344.0	350.1
117.5°	620.7	564.1	507.6	484.6	463.2	431.1	402.1	386.8	380.7	379.2	385.3
120°	717.0	654.3	599.3	573.3	547.3	510.6	472.4	443.4	431.1	422.0	422.0
122.5°	811.8	750.7	689.5	663.5	634.5	591.7	550.4	513.7	489.2	470.9	463.2
125°	902.0	845.5	781.2	756.8	726.2	678.8	632.9	594.7	562.6	533.6	515.2
127.5°	990.7	935.7	871.4	847.0	819.5	769.0	726.2	680.3	646.7	610.0	582.5
130°	1077.8	1022.8	961.6	937.2	911.2	862.3	811.8	767.5	733.8	697.2	666.6
132.5°	1160.4	1105.4	1050.3	1022.8	996.8	950.9	902.0	857.7	821.0	785.8	756.8
135°	1241.4	1183.3	1131.3	1105.4	1079.4	1036.6	990.7	949.4	909.7	873.0	843.9
137.5°	1314.8	1261.3	1210.8	1184.9	1160.4	1119.1	1079.4	1041.1	1001.4	963.2	931.1
140°	1385.1	1333.2	1285.8	1262.8	1238.4	1197.1	1161.9	1128.3	1091.6	1047.3	1019.7
142.5°	1452.4	1400.4	1359.1	1336.2	1310.2	1275.1	1239.9	1209.3	1178.7	1140.5	1108.4
145°	1515.1	1463.1	1424.9	1405.0	1380.5	1346.9	1313.3	1285.8	1261.3	1223.1	1194.0
147.5°	1574.7	1527.3	1490.6	1469.2	1449.3	1417.2	1385.1	1359.1	1342.3	1304.1	1276.6
150°	1632.8	1583.9	1551.8	1531.9	1512.0	1483.0	1453.9	1429.5	1414.2	1382.1	1356.1
152.5°	1684.8	1640.5	1611.4	1593.1	1574.7	1545.7	1518.1	1495.2	1484.5	1450.9	1435.6
155°	1735.2	1692.4	1666.4	1651.2	1632.8	1600.7	1579.3	1556.4	1551.8	1522.7	1501.3
157.5°	1779.6	1741.4	1715.4	1700.1	1684.8	1657.3	1635.9	1617.5	1612.9	1586.9	1567.1
160°	1817.8	1784.2	1761.2	1749.0	1735.2	1707.7	1687.8	1672.6	1666.4	1648.1	1629.8
162.5°	1856.0	1823.9	1804.0	1791.8	1781.1	1755.1	1738.3	1723.0	1718.4	1706.2	1687.8
165°	1888.1	1859.1	1840.7	1831.6	1822.4	1799.5	1784.2	1770.4	1768.9	1759.7	1739.8
167.5°	1917.2	1891.2	1875.9	1868.3	1859.1	1839.2	1827.0	1814.7	1813.2	1811.7	1790.3
170°	1940.1	1918.7	1904.9	1898.8	1892.7	1874.4	1863.7	1854.5	1854.5	1856.0	1837.7
172.5°	1960.0	1941.6	1932.5	1924.8	1921.8	1904.9	1897.3	1889.7	1892.7	1895.8	1879.0
175°	1975.3	1960.0	1950.8	1947.8	1944.7	1930.9	1926.3	1923.3	1927.9	1934.0	1917.2
177.5°	1989.0	1975.3	1970.7	1967.6	1966.1	1955.4	1953.9	1950.8	1956.9	1966.1	1952.3
180°	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0
2.5°	766.0	766.0	766.0	764.4	762.9	761.4	758.3	758.3
5°	762.9	762.9	761.4	761.4	759.8	759.8	758.3	759.8
7.5°	756.8	756.8	755.3	755.3	755.3	755.3	753.7	755.3
10°	749.1	749.1	746.1	746.1	746.1	746.1	746.1	746.1
12.5°	738.4	736.9	736.9	735.4	735.4	736.9	736.9	736.9
15°	726.2	726.2	724.7	723.1	724.7	724.7	724.7	724.7
17.5°	710.9	709.4	709.4	707.9	709.4	709.4	707.9	709.4
20°	692.6	691.0	691.0	689.5	691.0	689.5	689.5	689.5
22.5°	672.7	671.2	671.2	669.6	671.2	671.2	671.2	671.2
25°	652.8	651.3	649.8	649.8	649.8	649.8	649.8	649.8
27.5°	632.9	631.4	629.9	629.9	629.9	628.4	628.4	626.8
30°	610.0	610.0	607.0	607.0	607.0	605.4	605.4	603.9
32.5°	588.6	587.1	585.5	584.0	584.0	582.5	581.0	581.0
35°	564.1	562.6	561.1	559.6	559.6	558.0	556.5	558.0
37.5°	541.2	539.7	536.6	536.6	536.6	533.6	533.6	532.0
40°	515.2	512.2	512.2	512.2	510.6	509.1	509.1	507.6
42.5°	489.2	487.7	486.2	486.2	486.2	483.1	483.1	483.1
45°	464.8	463.2	463.2	460.2	460.2	457.1	457.1	458.7
47.5°	437.3	437.3	437.3	435.7	434.2	432.7	432.7	432.7
50°	411.3	411.3	408.2	408.2	408.2	406.7	405.1	405.1
52.5°	382.2	380.7	380.7	379.2	377.6	377.6	377.6	377.6
55°	354.7	354.7	354.7	353.2	351.6	351.6	350.1	351.6
57.5°	328.7	328.7	328.7	327.2	325.6	325.6	324.1	325.6
60°	302.7	301.2	301.2	299.7	298.1	299.7	298.1	298.1
62.5°	275.2	273.7	275.2	273.7	272.1	270.6	270.6	272.1
65°	249.2	247.7	247.7	246.1	244.6	244.6	244.6	244.6
67.5°	221.7	220.2	220.2	218.6	218.6	218.6	218.6	218.6
70°	194.2	192.6	192.6	191.1	191.1	191.1	191.1	191.1
72.5°	168.2	166.6	166.6	165.1	165.1	165.1	165.1	165.1
75°	140.7	139.1	139.1	139.1	139.1	137.6	137.6	137.6
77.5°	114.7	113.1	113.1	113.1	111.6	111.6	111.6	111.6
80°	88.7	87.1	87.1	87.1	85.6	85.6	85.6	84.1
82.5°	61.2	59.6	59.6	61.2	58.1	59.6	58.1	58.1
85°	35.2	33.6	33.6	33.6	33.6	33.6	33.6	32.1
87.5°	13.8	12.2	12.2	13.8	12.2	13.8	13.8	13.8
90°	12.2	12.2	13.8	13.8	15.3	15.3	16.8	16.8
92.5°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
95°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	73.4
97.5°	125.4	123.8	123.8	123.8	123.8	122.3	120.8	120.8
100°	149.8	154.4	155.9	157.5	159.0	160.5	162.1	160.5
102.5°	171.2	174.3	175.8	177.3	178.9	180.4	181.9	181.9
105°	191.1	192.6	194.2	197.2	201.8	206.4	207.9	207.9
107.5°	229.3	229.3	230.9	232.4	230.9	232.4	232.4	232.4
110°	290.5	281.3	279.8	276.7	272.1	273.7	273.7	273.7



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	330.2	336.3	339.4	339.4	339.4	340.9	336.3	334.8
115°	360.8	366.9	370.0	371.5	376.1	380.7	382.2	382.2
117.5°	391.4	399.0	402.1	403.6	408.2	412.8	414.3	414.3
120°	425.0	428.1	431.1	431.1	435.7	438.8	440.3	440.3
122.5°	458.7	458.7	461.7	461.7	464.8	464.8	467.8	466.3
125°	503.0	496.9	498.4	493.8	495.3	495.3	495.3	493.8
127.5°	562.6	548.9	547.3	541.2	536.6	535.1	532.0	530.5
130°	637.5	616.1	610.0	602.4	594.7	590.1	581.0	582.5
132.5°	724.7	697.2	689.5	680.3	669.6	658.9	652.8	652.8
135°	814.9	787.4	778.2	767.5	755.3	743.0	736.9	736.9
137.5°	902.0	877.6	868.4	859.2	845.5	836.3	824.0	827.1
140°	993.8	966.2	957.1	947.9	938.7	921.9	917.3	921.9
142.5°	1082.4	1053.4	1045.7	1036.6	1027.4	1015.2	1006.0	1010.6
145°	1169.6	1140.5	1132.9	1123.7	1116.1	1099.2	1097.7	1097.7
147.5°	1255.2	1229.2	1221.5	1212.4	1204.7	1192.5	1186.4	1187.9
150°	1336.2	1313.3	1305.6	1296.5	1288.8	1273.5	1268.9	1273.5
152.5°	1414.2	1392.8	1385.1	1376.0	1369.8	1356.1	1353.0	1357.6
155°	1486.0	1464.6	1458.5	1449.3	1444.8	1434.1	1434.1	1435.6
157.5°	1553.3	1536.5	1528.8	1522.7	1518.1	1505.9	1505.9	1510.5
160°	1619.0	1603.8	1599.2	1590.0	1585.4	1576.2	1574.7	1573.2
162.5°	1681.7	1668.0	1661.9	1655.7	1651.2	1643.5	1640.5	1640.5
165°	1732.2	1723.0	1716.9	1713.8	1710.8	1704.7	1701.6	1701.6
167.5°	1787.2	1775.0	1770.4	1764.3	1762.8	1758.2	1756.6	1761.2
170°	1831.6	1825.4	1819.3	1814.7	1811.7	1808.6	1807.1	1811.7
172.5°	1875.9	1869.8	1866.7	1862.1	1860.6	1859.1	1859.1	1863.7
175°	1917.2	1912.6	1908.0	1903.4	1903.4	1900.4	1901.9	1904.9
177.5°	1953.9	1950.8	1949.3	1944.7	1941.6	1938.6	1937.0	1937.0
180°	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4	1984.4

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