

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709313

Luminaire Tested: DL2W-BB-M-150U-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709313
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-150U-050D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7537.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

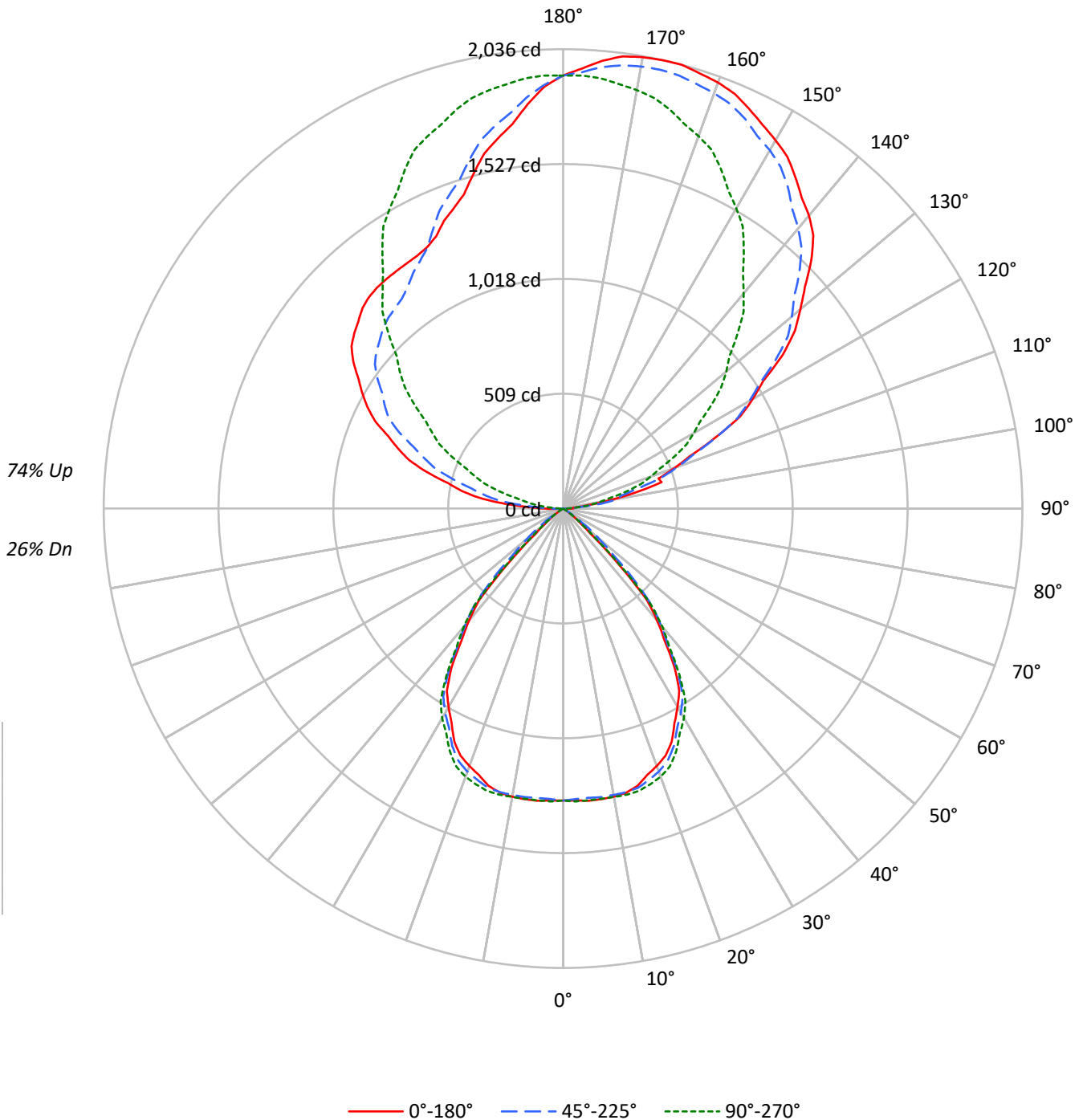
Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	93	90	86	83	83	80	77	75	62	61	59	46	45	44	31	31	30	24
2	86	79	74	70	77	71	67	63	56	53	51	42	40	39	29	28	27	22
3	79	71	64	59	70	64	58	54	50	47	44	38	36	34	27	25	24	20
4	73	63	56	51	65	57	51	47	45	41	38	35	32	30	25	23	22	18
5	67	57	50	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16
6	62	51	44	39	55	46	40	36	37	33	30	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	32	34	30	26	26	24	21	19	18	16	14
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12
10	46	35	29	24	42	32	27	23	26	22	19	21	18	16	16	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20891	20891	20891	20891	20891
5°	21065	20853	21032	20853	21065
10°	21261	21135	21276	21135	21261
15°	21274	21426	21660	21426	21274
20°	20861	21312	21720	21312	20861
25°	20309	20688	21148	20688	20309
30°	18921	19471	19980	19471	18921
35°	17008	17504	17710	17504	17008
40°	13687	14245	14457	14245	13687
45°	7930	9994	8524	9994	7930
50°	2562	5154	2876	5154	2562
55°	1030	1814	974	1814	1030
60°	32	510	94	510	32
65°	0	27	0	27	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 10035 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	1.6
10°-20°	361.9	4.8
20°-30°	532.6	7.1
30°-40°	544.1	7.2
40°-50°	312.8	4.2
50°-60°	54.6	0.7
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	10.2	0.1
90°-100°	151.8	2.0
100°-110°	443.3	5.9
110°-120°	725.6	9.6
120°-130°	921.7	12.2
130°-140°	986.6	13.1
140°-150°	921.4	12.2
150°-160°	758.3	10.1
160°-170°	508.6	6.7
170°-180°	180.6	2.4
0°-30°	1018.1	13.5
0°-40°	1562.2	20.7
0°-60°	1929.7	25.6
0°-90°	1941.8	25.8
90°-120°	1320.7	17.5
90°-150°	4150.5	55.1
90°-180°	5598.0	74.3
0°-180°	7537.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1294	1294	1294	1294	1294	
5°	1300	1287	1298	1287	1300	124
15°	1273	1282	1296	1282	1273	357
25°	1140	1161	1187	1161	1140	519
35°	863	888	898	888	863	528
45°	347	438	373	438	347	272
55°	37	64	35	64	37	37
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
90°	40	37	7	51	85	19
95°	44	60	62	196	272	75
105°	452	338	286	505	624	419
115°	746	752	542	803	920	739
125°	1189	1151	804	1004	1135	1052
135°	1556	1481	1093	1128	1257	1194
145°	1795	1738	1396	1199	1286	1124
155°	1953	1907	1658	1364	1331	901
165°	2036	1987	1830	1601	1535	575
175°	1992	1964	1914	1830	1799	191
180°	1919	1919	1919	1919	1919	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9
2.5°	1294.7	1296.0	1297.4	1293.9	1288.8	1288.4	1292.9	1296.6	1297.9	1299.3	1297.9
5°	1299.7	1300.5	1301.4	1295.5	1287.4	1285.9	1291.0	1295.2	1296.5	1297.7	1296.5
7.5°	1299.1	1300.8	1302.5	1297.6	1290.5	1288.7	1292.1	1294.9	1296.0	1297.0	1296.0
10°	1296.8	1298.5	1300.2	1295.8	1289.4	1288.8	1293.9	1297.7	1297.7	1297.7	1297.7
12.5°	1289.9	1292.3	1294.6	1291.5	1286.4	1288.2	1296.7	1302.7	1301.0	1299.3	1301.0
15°	1272.7	1275.7	1278.7	1279.1	1278.7	1284.9	1297.7	1306.1	1301.0	1295.8	1301.0
17.5°	1238.7	1243.2	1247.7	1251.9	1255.9	1266.7	1284.2	1295.6	1288.7	1281.8	1288.7
20°	1214.1	1217.9	1221.7	1227.5	1233.9	1246.8	1266.0	1278.6	1271.3	1264.1	1271.3
22.5°	1185.6	1189.8	1194.0	1199.0	1204.4	1217.3	1237.5	1251.0	1244.1	1237.1	1244.1
25°	1140.0	1142.5	1145.1	1149.9	1155.5	1167.0	1184.6	1196.5	1191.8	1187.1	1191.8
27.5°	1070.3	1074.6	1078.9	1084.2	1090.0	1100.5	1115.7	1126.5	1124.1	1121.7	1124.1
30°	1014.9	1020.9	1026.9	1033.2	1039.6	1049.2	1062.1	1071.7	1071.7	1071.7	1071.7
32.5°	958.0	963.6	969.3	976.2	983.7	991.6	1000.0	1006.6	1008.0	1009.3	1008.0
35°	862.9	867.6	872.3	878.3	884.7	891.4	898.2	902.8	900.7	898.5	900.7
37.5°	740.9	744.2	747.4	753.8	761.1	768.3	775.3	780.1	778.0	776.0	778.0
40°	649.4	653.6	657.9	664.7	672.4	679.3	685.3	689.3	687.6	685.9	687.6
42.5°	551.6	557.3	562.9	570.6	579.0	586.0	591.6	593.6	584.3	575.1	584.3
45°	347.3	379.4	411.4	426.5	435.9	439.5	437.4	428.8	401.1	373.3	401.1
47.5°	163.5	195.3	227.0	258.5	289.8	295.4	275.1	252.7	223.6	194.5	223.6
50°	102.0	113.5	125.1	159.7	202.0	208.4	178.9	152.1	133.3	114.5	133.3
52.5°	68.9	74.6	80.3	106.8	140.3	142.6	113.8	90.1	81.9	73.7	81.9
55°	36.6	38.3	40.0	50.7	64.3	64.6	51.3	40.6	37.6	34.6	37.6
57.5°	14.0	16.5	19.0	23.8	29.4	29.3	23.7	18.7	15.8	12.9	15.8
60°	1.0	3.1	5.2	9.9	15.5	16.1	11.9	8.0	5.5	2.9	5.5
62.5°	0.2	0.6	1.0	4.3	8.5	8.8	5.2	2.3	1.4	0.6	1.4
65°	0.0	0.0	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	8.3	8.1	7.7	7.5	7.3	6.2	4.6	2.9	1.3	2.9
90°	40.4	41.4	40.4	38.5	37.5	36.5	30.8	23.1	14.4	6.7	14.4
92.5°	49.6	49.1	48.9	46.9	45.2	40.4	33.1	33.1	33.7	21.4	36.0
95°	44.2	44.2	43.3	43.3	51.0	68.3	94.3	93.3	67.3	61.6	86.6
97.5°	102.7	102.9	116.2	144.1	167.5	179.9	167.7	126.0	123.7	118.9	155.2
100°	205.8	202.9	223.1	247.2	272.2	222.2	177.0	176.0	168.3	159.7	206.8
102.5°	327.4	339.1	347.0	347.2	276.0	246.8	237.8	229.9	213.7	208.1	254.5
105°	452.0	432.8	373.2	338.6	333.7	341.4	342.4	313.5	288.5	285.7	331.8
107.5°	443.6	436.8	441.3	449.9	457.6	458.4	446.5	404.7	366.6	361.1	401.5
110°	525.1	522.3	529.0	533.8	541.5	537.6	520.3	473.2	425.1	412.6	453.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	609.8	615.4	615.2	623.8	626.1	621.5	593.4	540.1	484.4	464.9	503.8
115°	746.4	744.4	751.2	753.1	757.9	745.4	703.1	641.5	571.3	542.5	577.1
117.5°	885.0	879.3	879.3	890.0	886.4	860.2	817.1	744.0	665.2	617.5	643.8
120°	970.5	968.5	968.5	972.4	969.5	938.7	892.5	811.8	725.2	667.5	687.7
122.5°	1051.2	1058.6	1052.4	1054.7	1048.7	1018.7	961.0	879.5	785.2	722.1	730.0
125°	1188.8	1181.1	1176.3	1174.4	1167.6	1134.0	1071.4	983.0	881.0	804.1	793.5
127.5°	1295.5	1298.8	1292.8	1285.9	1272.8	1239.4	1175.5	1086.3	979.9	882.9	859.7
130°	1372.5	1375.4	1370.6	1362.9	1343.6	1303.2	1245.5	1157.0	1048.4	944.5	905.1
132.5°	1454.0	1451.5	1445.2	1428.3	1408.3	1370.2	1308.6	1225.5	1109.9	999.9	951.2
135°	1556.2	1557.1	1542.7	1525.4	1502.3	1460.0	1409.0	1327.3	1211.9	1092.6	1022.4
137.5°	1641.8	1640.2	1626.0	1611.6	1582.9	1546.2	1497.1	1419.6	1306.9	1184.5	1096.6
140°	1695.6	1695.6	1682.2	1663.9	1639.9	1602.4	1553.3	1477.3	1371.5	1244.6	1151.3
142.5°	1737.2	1738.0	1724.5	1710.8	1686.8	1653.9	1605.6	1532.7	1426.9	1310.0	1205.1
145°	1794.7	1798.6	1788.0	1776.4	1753.4	1721.6	1683.1	1608.1	1513.9	1396.5	1290.7
147.5°	1849.5	1853.4	1847.0	1835.1	1812.0	1778.9	1743.9	1675.8	1586.8	1482.1	1374.4
150°	1884.2	1888.0	1879.4	1869.7	1850.5	1815.9	1783.2	1715.8	1632.2	1536.0	1432.1
152.5°	1916.5	1920.3	1913.2	1902.1	1879.7	1845.9	1817.8	1752.8	1675.3	1587.5	1486.7
155°	1953.4	1962.1	1955.3	1944.8	1922.6	1890.9	1864.9	1805.3	1735.1	1658.1	1564.8
157.5°	1989.2	1998.6	1989.2	1979.2	1953.2	1926.5	1902.2	1847.4	1786.8	1720.8	1636.4
160°	2009.2	2017.9	2009.2	1997.7	1971.7	1945.7	1924.6	1873.6	1816.8	1756.2	1684.1
162.5°	2021.5	2030.9	2023.8	2010.7	1984.0	1960.3	1940.7	1894.4	1842.2	1787.0	1721.0
165°	2036.1	2046.7	2038.0	2022.7	1996.7	1977.5	1961.1	1919.7	1875.5	1830.3	1777.4
167.5°	2035.9	2048.1	2039.2	2029.0	1999.6	1984.8	1970.7	1937.1	1899.9	1864.0	1821.6
170°	2031.3	2041.9	2036.1	2027.5	1995.7	1983.2	1974.6	1944.8	1913.0	1883.2	1848.6
172.5°	2021.3	2031.1	2024.6	2015.9	1986.5	1976.3	1972.3	1947.8	1920.7	1897.8	1868.6
175°	1991.9	2005.3	2000.5	1992.8	1966.9	1961.1	1962.1	1945.7	1928.4	1914.0	1896.7
177.5°	1952.6	1961.1	1960.3	1953.4	1935.7	1937.3	1943.4	1933.4	1926.5	1921.1	1912.6
180°	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9
2.5°	1296.6	1292.9	1288.4	1288.8	1293.9	1297.4	1296.0	1294.7
5°	1295.2	1291.0	1285.9	1287.4	1295.5	1301.4	1300.5	1299.7
7.5°	1294.9	1292.1	1288.7	1290.5	1297.6	1302.5	1300.8	1299.1
10°	1297.7	1293.9	1288.8	1289.4	1295.8	1300.2	1298.5	1296.8
12.5°	1302.7	1296.7	1288.2	1286.4	1291.5	1294.6	1292.3	1289.9
15°	1306.1	1297.7	1284.9	1278.7	1279.1	1278.7	1275.7	1272.7
17.5°	1295.6	1284.2	1266.7	1255.9	1251.9	1247.7	1243.2	1238.7
20°	1278.6	1266.0	1246.8	1233.9	1227.5	1221.7	1217.9	1214.1
22.5°	1251.0	1237.5	1217.3	1204.4	1199.0	1194.0	1189.8	1185.6
25°	1196.5	1184.6	1167.0	1155.5	1149.9	1145.1	1142.5	1140.0
27.5°	1126.5	1115.7	1100.5	1090.0	1084.2	1078.9	1074.6	1070.3
30°	1071.7	1062.1	1049.2	1039.6	1033.2	1026.9	1020.9	1014.9
32.5°	1006.6	1000.0	991.6	983.7	976.2	969.3	963.6	958.0
35°	902.8	898.2	891.4	884.7	878.3	872.3	867.6	862.9
37.5°	780.1	775.3	768.3	761.1	753.8	747.4	744.2	740.9
40°	689.3	685.3	679.3	672.4	664.7	657.9	653.6	649.4
42.5°	593.6	591.6	586.0	579.0	570.6	562.9	557.3	551.6
45°	428.8	437.4	439.5	435.9	426.5	411.4	379.4	347.3
47.5°	252.7	275.1	295.4	289.8	258.5	227.0	195.3	163.5
50°	152.1	178.9	208.4	202.0	159.7	125.1	113.5	102.0
52.5°	90.1	113.8	142.6	140.3	106.8	80.3	74.6	68.9
55°	40.6	51.3	64.6	64.3	50.7	40.0	38.3	36.6
57.5°	18.7	23.7	29.3	29.4	23.8	19.0	16.5	14.0
60°	8.0	11.9	16.1	15.5	9.9	5.2	3.1	1.0
62.5°	2.3	5.2	8.8	8.5	4.3	1.0	0.6	0.2
65°	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	6.5	9.2	11.3	14.0	16.4	17.3	16.9
90°	23.1	32.7	46.2	56.7	70.2	81.8	86.6	84.6
92.5°	52.3	71.9	92.3	111.4	131.8	143.3	148.1	149.3
95°	121.2	149.1	181.8	210.6	235.6	253.9	258.7	272.2
97.5°	190.2	239.1	278.0	311.2	342.6	363.0	374.7	379.3
100°	243.3	291.4	339.5	375.1	412.6	429.9	446.3	457.8
102.5°	300.3	343.0	396.5	441.3	478.0	502.3	512.4	522.4
105°	385.7	434.7	480.9	530.0	568.4	599.2	620.4	624.2
107.5°	465.5	523.4	570.9	620.4	658.3	686.5	707.7	715.0
110°	519.4	578.0	634.8	674.2	717.5	747.3	764.6	778.1

TEST NUMBER: P709313

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	568.6	631.1	693.3	743.5	782.1	811.9	831.6	838.9
115°	643.4	706.0	771.4	833.9	875.2	896.4	910.8	919.5
117.5°	709.8	777.9	839.5	902.9	945.6	967.8	972.0	978.9
120°	748.3	819.5	884.9	940.6	988.7	1014.7	1024.3	1028.2
122.5°	788.3	856.4	920.2	977.6	1024.1	1055.5	1071.2	1075.9
125°	843.5	910.8	974.3	1033.9	1077.2	1109.0	1126.3	1134.9
127.5°	891.8	955.1	1021.8	1080.7	1123.2	1154.0	1172.6	1181.9
130°	927.2	982.0	1050.3	1109.9	1153.2	1184.0	1200.3	1208.0
132.5°	961.0	1005.1	1072.6	1132.2	1177.8	1207.8	1224.2	1230.3
135°	1014.7	1040.7	1096.4	1159.9	1206.1	1234.9	1251.3	1257.1
137.5°	1072.8	1078.8	1116.8	1176.3	1223.6	1253.4	1267.6	1272.5
140°	1112.8	1108.0	1133.0	1184.0	1232.1	1261.9	1275.3	1280.2
142.5°	1156.7	1142.6	1153.8	1192.4	1235.1	1265.0	1279.2	1284.0
145°	1223.4	1197.4	1188.8	1209.9	1241.7	1266.7	1282.1	1285.9
147.5°	1299.6	1261.7	1234.2	1240.3	1256.1	1274.0	1286.7	1289.0
150°	1350.4	1303.2	1269.6	1265.7	1271.5	1284.0	1293.6	1293.6
152.5°	1401.1	1350.9	1308.0	1296.5	1294.6	1299.4	1305.9	1305.2
155°	1482.1	1423.5	1374.4	1353.2	1340.7	1336.9	1335.0	1331.1
157.5°	1560.2	1499.4	1444.4	1415.6	1399.8	1390.2	1385.6	1379.6
160°	1614.9	1549.5	1493.7	1461.0	1447.5	1430.2	1426.3	1415.8
162.5°	1657.9	1602.5	1542.9	1510.2	1492.1	1477.9	1472.5	1460.4
165°	1724.5	1676.4	1616.8	1585.0	1562.9	1550.4	1539.8	1535.0
167.5°	1783.6	1742.4	1690.6	1658.1	1646.8	1627.9	1619.1	1612.0
170°	1815.9	1783.2	1739.9	1708.2	1697.6	1684.1	1674.5	1665.8
172.5°	1843.6	1820.9	1780.7	1758.9	1749.1	1737.2	1729.9	1718.2
175°	1880.3	1865.9	1839.9	1820.7	1825.5	1813.9	1812.0	1798.6
177.5°	1906.5	1901.9	1884.2	1876.5	1885.7	1881.9	1881.1	1872.6
180°	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8

(END OF REPORT)