

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: INVUE

Report Number: P148788

Luminaire Tested: **VWM-E02-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148788
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E02-LED-E1-RW-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

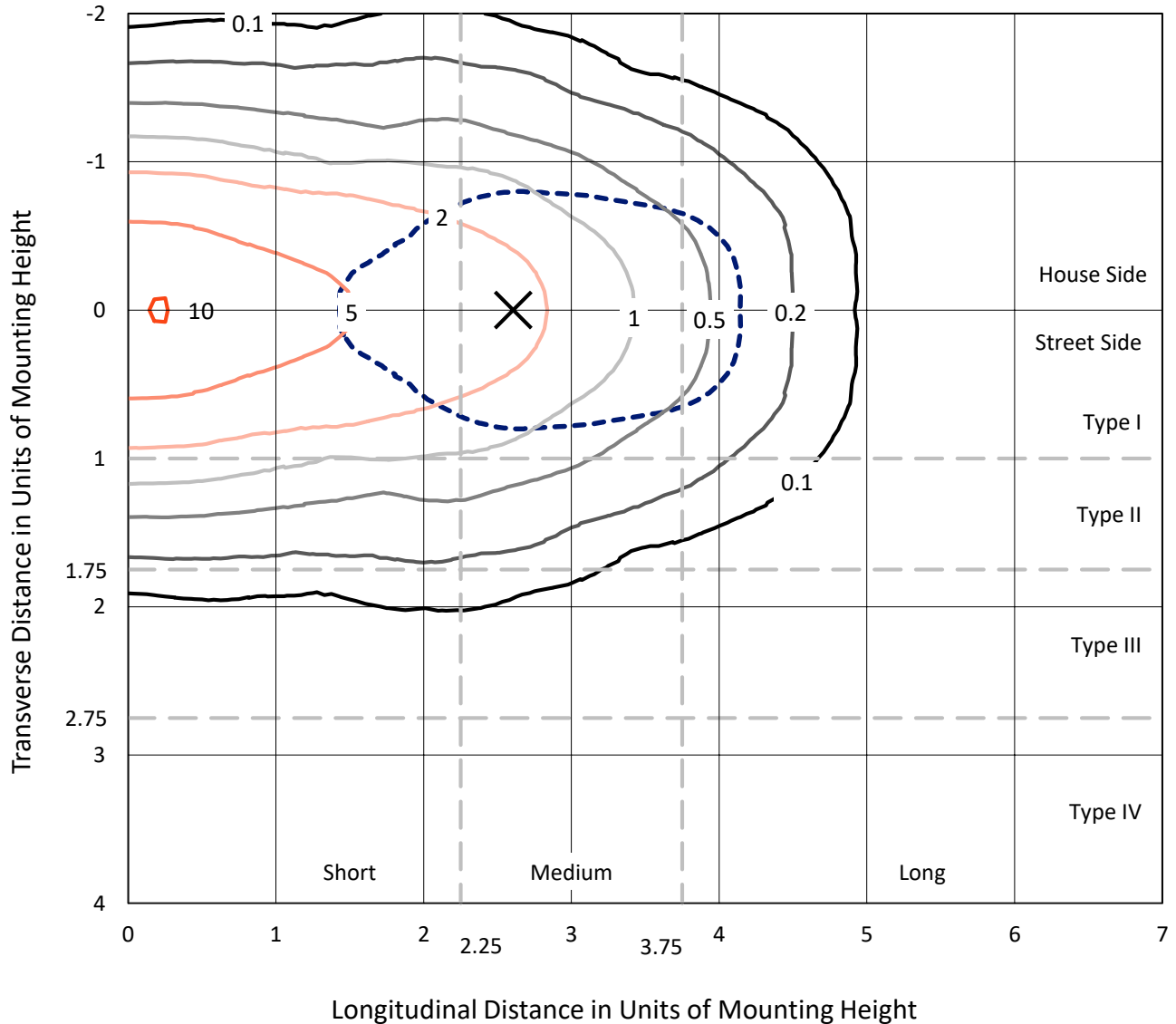
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

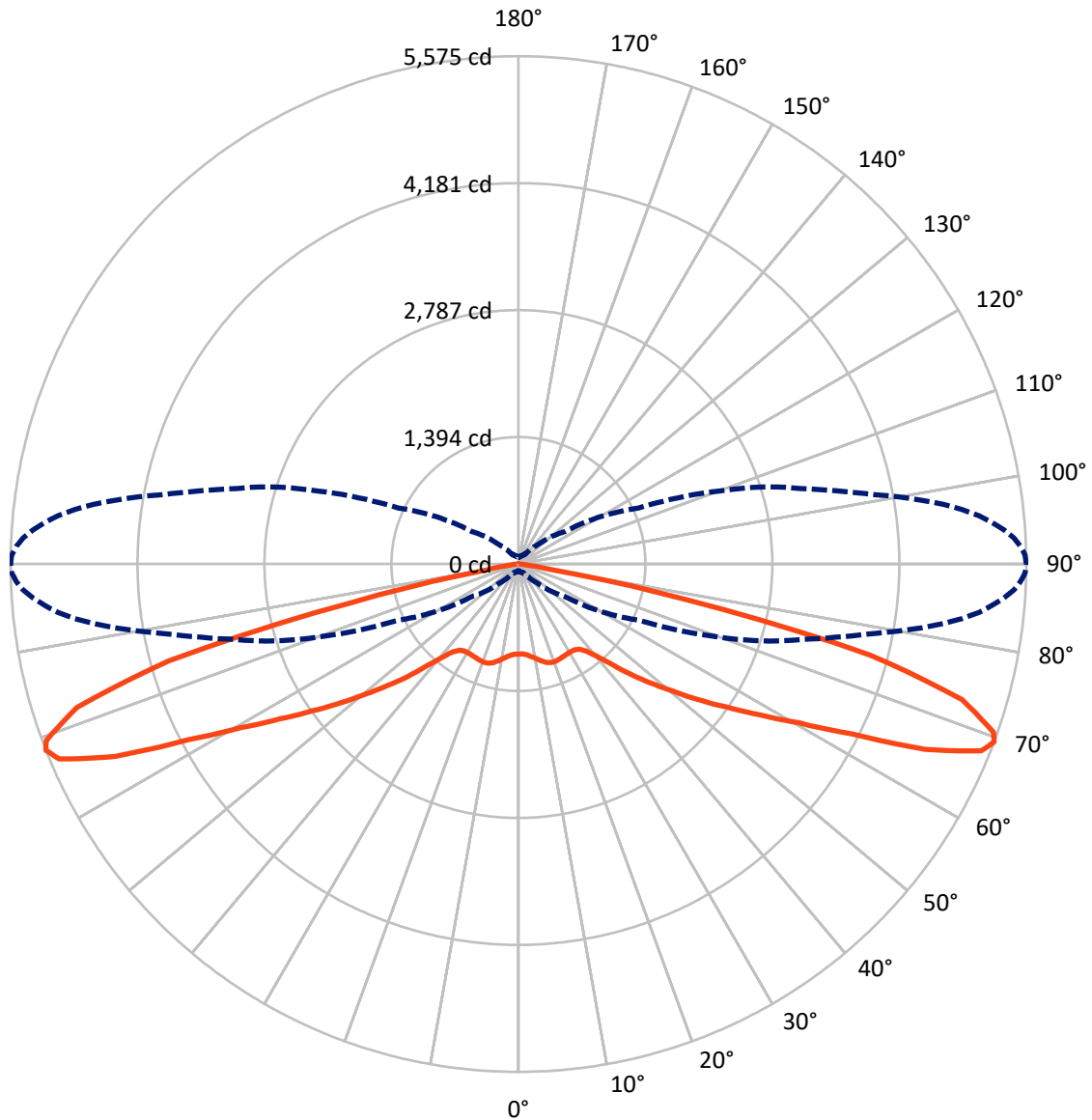


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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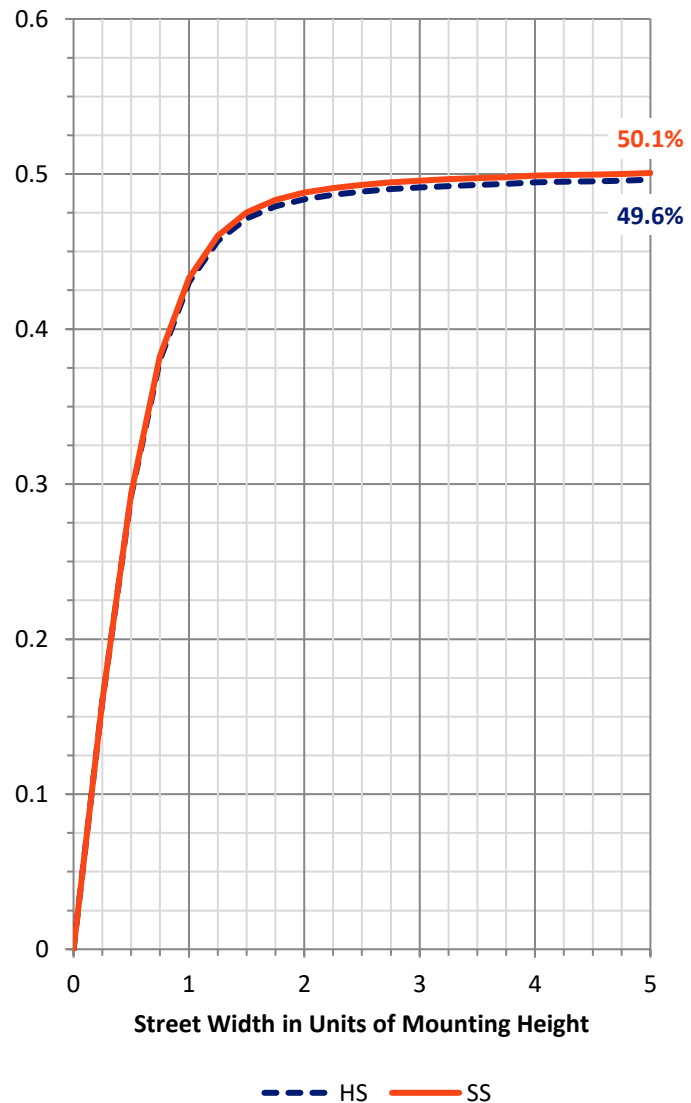
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2636.6	0.0	2636.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2636.6	0.0	2636.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5273.1	0.0	5273.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.8
10°-20°	305.7	5.8
20°-30°	495.3	9.4
30°-40°	617.3	11.7
40°-50°	771.4	14.6
50°-60°	952.5	18.1
60°-70°	1183.5	22.4
70°-80°	785.7	14.9
80°-90°	64.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5273.1	100.0
0°-180°	5273.1	100.0



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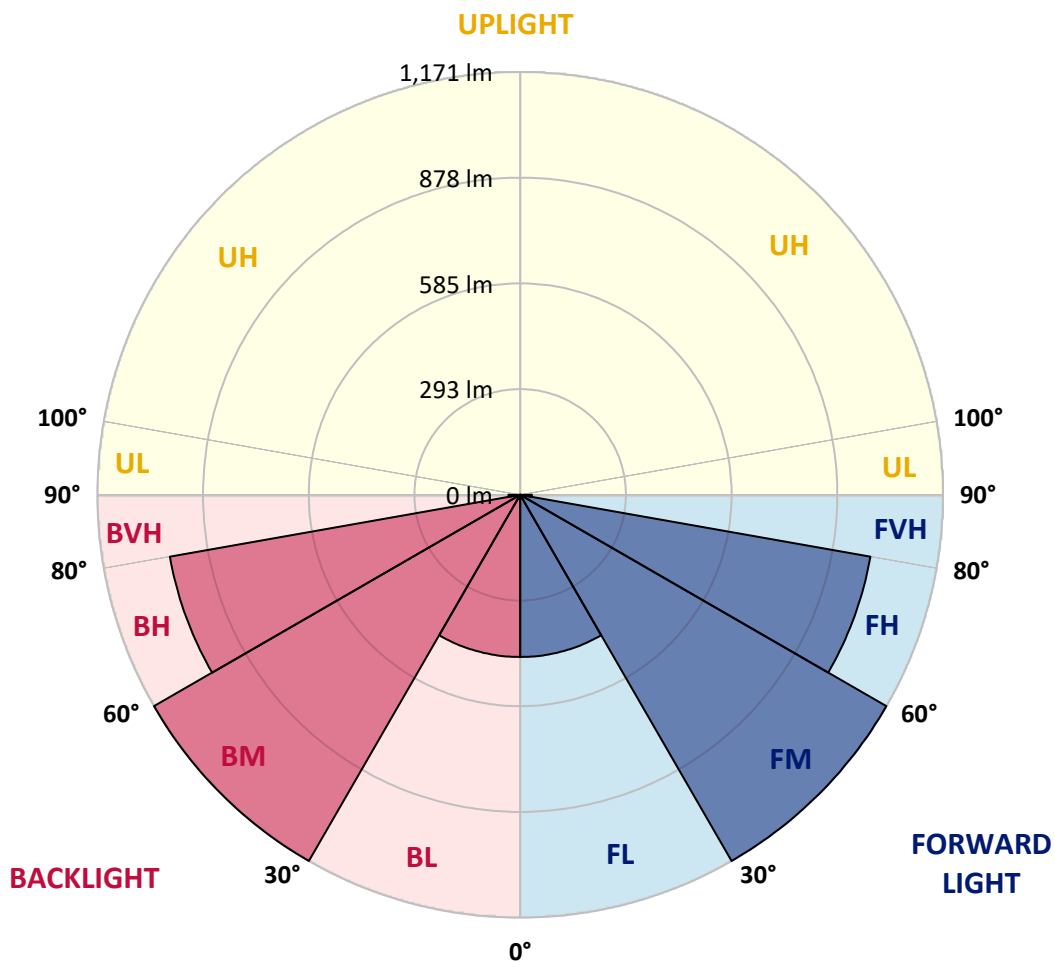
CATALOG NUMBER: VWM-E02-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.0	8.5			
FM (30°-60°)	1170.6	22.2			
FH (60°-80°)	984.6	18.7			G1/1800
FVH (80°-90°)	32.4	0.6			G1/100
BL (0°-30°)	449.0	8.5	B1/500		
BM (30°-60°)	1170.6	22.2	B2/2500		
BH (60°-80°)	984.6	18.7	B2/1000		G2/1000
BVH (80°-90°)	32.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0
2.5°	992.5	993.4	992.8	993.9	993.6	993.6	993.1	992.0	991.8	991.7	991.6
5°	1002.1	1001.0	1002.6	1004.4	1003.8	1004.0	1003.8	1003.8	1003.7	1003.6	1003.5
7.5°	1012.2	1012.0	1013.0	1017.6	1018.1	1019.8	1021.8	1023.2	1023.3	1023.3	1023.4
10°	1021.0	1021.2	1024.0	1030.6	1033.9	1039.2	1044.6	1048.8	1049.1	1049.4	1049.7
12.5°	1028.0	1028.3	1032.5	1042.6	1050.8	1060.9	1072.4	1078.9	1079.5	1080.0	1080.6
15°	1028.6	1029.4	1036.7	1053.3	1069.6	1086.2	1100.0	1108.7	1109.2	1109.6	1110.1
17.5°	1021.2	1021.8	1034.2	1058.6	1086.0	1111.8	1126.2	1130.1	1130.3	1130.4	1130.6
20°	1002.1	1003.5	1021.0	1057.2	1098.9	1132.6	1147.6	1142.2	1141.7	1141.1	1140.6
22.5°	971.2	970.8	993.6	1042.6	1101.4	1148.9	1162.2	1148.1	1146.4	1144.8	1143.1
25°	921.0	924.4	951.2	1009.7	1087.0	1152.6	1172.6	1151.2	1148.8	1146.4	1144.0
27.5°	866.8	868.8	897.2	959.9	1053.6	1140.0	1177.6	1157.4	1154.7	1152.1	1149.4
30°	803.5	806.0	836.4	902.0	999.8	1107.3	1176.2	1171.4	1168.3	1165.2	1162.1
32.5°	741.6	744.4	771.7	843.4	943.3	1062.6	1167.8	1191.4	1188.2	1185.0	1181.8
35°	677.4	681.6	714.9	787.4	888.8	1012.8	1154.8	1217.1	1215.3	1213.5	1211.7
37.5°	624.3	625.1	657.2	733.4	838.0	965.2	1137.7	1249.4	1250.7	1252.0	1253.3
40°	564.9	570.2	602.4	682.8	792.2	925.0	1121.4	1293.2	1300.0	1306.7	1313.4
42.5°	511.8	512.3	545.0	627.9	742.4	892.7	1112.4	1346.2	1360.6	1374.9	1389.3
45°	455.8	458.0	487.6	567.7	685.0	854.4	1112.1	1407.2	1430.2	1453.1	1476.1
47.5°	402.8	403.7	434.9	509.5	619.2	800.9	1110.2	1472.8	1504.0	1535.3	1566.5
50°	352.2	351.4	382.0	453.8	554.2	730.9	1093.0	1547.0	1586.5	1626.0	1665.5
52.5°	294.3	298.2	330.0	398.7	495.2	659.7	1042.9	1628.4	1675.6	1722.8	1770.0
55°	237.4	239.2	273.2	337.4	435.2	593.3	955.7	1703.2	1758.8	1814.4	1870.1
57.5°	175.0	180.0	209.9	273.2	374.5	537.4	844.8	1742.0	1809.7	1877.4	1945.1
60°	123.5	127.4	153.9	207.0	307.8	478.5	749.4	1720.4	1808.4	1896.4	1984.4
62.5°	96.2	99.3	120.4	155.0	240.0	419.8	681.1	1650.3	1770.0	1889.8	2009.5
65°	84.4	87.2	106.4	124.0	179.2	359.8	643.7	1576.2	1734.5	1892.8	2051.1
67.5°	76.2	79.6	96.2	108.6	146.0	314.0	633.8	1529.6	1708.9	1888.1	2067.4
69°	72.6	76.0	90.9	101.3	135.6	297.6	617.0	1456.2	1634.4	1812.6	1990.8
70°	70.4	73.2	86.9	97.6	132.2	286.4	588.8	1364.4	1539.5	1714.5	1889.5
72.5°	65.2	66.6	78.8	89.2	122.6	231.5	453.0	1013.4	1165.1	1316.8	1468.5
75°	57.7	59.4	70.6	80.7	95.6	143.8	286.7	626.8	740.1	853.3	966.6
77.5°	49.8	51.2	61.0	77.0	74.2	89.8	171.3	348.8	414.5	480.2	545.9
80°	40.0	41.6	50.4	76.5	61.4	69.8	123.2	243.9	261.6	279.3	297.1
82.5°	29.2	30.6	39.4	61.9	47.0	52.6	94.0	206.8	213.0	219.1	225.3
85°	14.9	15.2	25.0	37.7	29.8	27.2	52.9	141.5	145.4	149.4	153.3
87.5°	2.6	2.6	5.6	6.5	7.3	4.5	6.8	24.2	25.0	25.7	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0
2.5°	991.4	991.2	990.8	990.9	991.2	991.0	991.4	991.5	991.8	990.7	990.5
5°	1003.3	1003.2	1003.2	1003.1	1003.4	1003.3	1003.5	1004.0	1003.8	1003.2	1003.1
7.5°	1023.4	1023.5	1023.8	1023.5	1024.0	1023.8	1023.2	1024.1	1024.7	1024.8	1025.4
10°	1050.0	1050.4	1051.3	1051.2	1052.2	1052.0	1052.2	1053.1	1053.8	1053.9	1054.6
12.5°	1081.2	1081.7	1082.2	1082.7	1083.8	1083.2	1084.6	1085.1	1085.9	1087.6	1086.8
15°	1110.5	1111.0	1112.5	1112.6	1113.6	1113.9	1115.2	1115.7	1115.9	1117.3	1117.5
17.5°	1130.8	1131.0	1131.5	1131.2	1132.1	1131.8	1132.6	1133.1	1133.8	1134.6	1135.9
20°	1140.1	1139.5	1139.2	1138.9	1138.3	1137.4	1137.7	1138.1	1138.2	1138.9	1139.9
22.5°	1141.5	1139.8	1138.1	1136.9	1135.2	1133.8	1132.4	1132.5	1132.6	1132.4	1133.1
25°	1141.6	1139.2	1136.6	1133.4	1131.0	1127.7	1125.0	1124.8	1124.0	1124.1	1124.4
27.5°	1146.7	1144.0	1140.3	1136.5	1131.4	1127.1	1122.8	1121.3	1119.8	1118.8	1118.4
30°	1159.0	1155.8	1151.4	1146.6	1141.0	1134.3	1128.2	1126.2	1124.0	1122.1	1120.5
32.5°	1178.6	1175.4	1170.4	1165.5	1158.0	1151.4	1145.3	1142.2	1139.1	1135.7	1132.6
35°	1209.9	1208.2	1203.8	1199.4	1194.0	1188.7	1183.2	1179.8	1174.6	1172.0	1168.2
37.5°	1254.6	1255.9	1255.9	1256.4	1254.7	1252.2	1248.2	1244.6	1242.9	1235.9	1231.4
40°	1320.2	1326.9	1333.1	1337.8	1342.0	1346.2	1349.8	1347.7	1348.4	1346.5	1343.8
42.5°	1403.7	1418.0	1431.2	1444.3	1453.8	1468.6	1478.9	1482.2	1490.6	1493.8	1499.9
45°	1499.0	1522.0	1544.1	1564.4	1583.4	1604.6	1625.2	1640.6	1657.4	1676.4	1695.4
47.5°	1597.8	1629.0	1661.5	1688.1	1715.6	1746.9	1774.4	1797.5	1827.6	1855.6	1886.2
50°	1704.9	1744.4	1781.4	1814.2	1849.4	1885.6	1923.2	1957.1	1997.9	2042.5	2090.9
52.5°	1817.2	1864.4	1907.2	1948.3	1989.7	2031.1	2071.2	2119.2	2169.4	2228.3	2288.7
55°	1925.8	1981.4	2029.9	2075.7	2123.1	2169.4	2210.6	2274.9	2336.5	2406.9	2485.8
57.5°	2012.9	2080.6	2136.6	2190.9	2244.4	2293.6	2344.4	2416.8	2495.4	2577.6	2677.6
60°	2072.4	2160.4	2231.9	2297.2	2362.8	2424.7	2483.0	2577.7	2671.2	2773.4	2897.9
62.5°	2129.2	2249.0	2342.3	2431.3	2519.8	2599.3	2671.8	2790.8	2913.0	3039.4	3187.4
65°	2209.4	2367.7	2505.1	2629.3	2751.8	2868.6	2977.0	3127.9	3282.1	3448.4	3625.2
67.5°	2246.7	2425.9	2604.8	2772.2	2927.8	3075.8	3215.0	3397.4	3578.9	3771.7	3985.2
69°	2169.1	2347.3	2538.5	2721.4	2893.2	3050.2	3201.0	3387.1	3575.9	3772.7	3988.2
70°	2064.5	2239.5	2432.6	2623.7	2788.1	2951.6	3107.9	3292.6	3483.8	3681.1	3906.7
72.5°	1620.2	1772.0	1960.3	2145.7	2310.7	2474.8	2626.5	2815.5	3008.0	3215.3	3428.8
75°	1079.9	1193.1	1333.4	1505.4	1656.7	1801.7	1948.8	2108.7	2296.4	2467.3	2662.7
77.5°	611.6	677.3	758.8	870.7	979.2	1066.1	1170.9	1246.1	1355.1	1449.2	1548.6
80°	314.8	332.5	356.8	383.7	399.0	396.5	412.2	396.7	400.1	387.6	374.1
82.5°	231.4	237.6	248.6	254.0	253.4	235.7	217.0	190.8	167.8	143.6	121.5
85°	157.2	161.2	163.9	168.1	166.9	159.3	142.4	119.7	97.6	78.3	62.6
87.5°	27.2	28.0	27.8	30.1	30.2	28.0	23.1	19.7	16.6	12.4	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0	988.0
2.5°	990.3	990.3	990.8	990.2	990.2	990.3	990.0	990.6	990.3	989.4	988.6
5°	1003.2	1002.4	1002.1	1002.6	1003.2	1002.1	1002.9	1003.8	1002.4	1002.7	1002.1
7.5°	1024.9	1024.6	1024.3	1024.9	1024.9	1024.6	1024.8	1024.1	1023.4	1024.4	1025.2
10°	1053.8	1053.6	1054.2	1054.2	1055.3	1054.7	1054.4	1055.2	1054.7	1054.2	1054.4
12.5°	1087.9	1087.1	1088.4	1088.4	1089.3	1089.3	1089.0	1089.3	1089.0	1088.2	1087.6
15°	1118.3	1117.2	1117.4	1119.7	1119.4	1120.0	1120.0	1119.4	1119.2	1118.8	1119.1
17.5°	1136.6	1136.0	1136.0	1137.2	1138.0	1137.7	1137.7	1137.7	1137.4	1137.7	1138.3
20°	1139.9	1140.0	1140.2	1141.4	1142.8	1141.9	1142.0	1142.5	1141.9	1142.4	1142.8
22.5°	1133.5	1134.0	1134.6	1136.0	1136.3	1136.3	1136.3	1136.6	1137.2	1137.1	1137.7
25°	1124.5	1125.0	1125.9	1127.0	1128.2	1128.2	1128.2	1128.7	1128.7	1129.0	1129.3
27.5°	1117.8	1118.3	1119.2	1120.2	1121.6	1121.6	1121.7	1122.2	1122.2	1122.5	1123.1
30°	1118.6	1117.4	1118.3	1118.8	1119.7	1119.7	1119.4	1119.7	1119.9	1120.0	1120.3
32.5°	1130.7	1128.2	1127.3	1127.0	1127.3	1126.4	1126.2	1125.6	1125.0	1125.1	1124.8
35°	1162.8	1158.8	1158.5	1156.2	1154.0	1151.8	1152.0	1150.4	1151.0	1149.5	1148.4
37.5°	1228.6	1224.1	1226.9	1222.1	1219.0	1216.8	1214.2	1210.8	1208.9	1211.4	1211.4
40°	1346.4	1343.4	1342.5	1343.4	1340.6	1341.9	1335.8	1334.1	1330.4	1332.9	1336.3
42.5°	1509.4	1507.4	1518.0	1520.0	1521.2	1522.8	1524.0	1514.6	1514.4	1512.4	1506.8
45°	1710.5	1722.3	1721.7	1734.6	1735.2	1731.3	1733.0	1728.8	1727.1	1720.9	1728.5
47.5°	1917.2	1939.8	1948.2	1951.0	1961.7	1964.2	1954.2	1950.8	1956.6	1946.6	1947.9
50°	2139.2	2163.4	2183.1	2196.4	2204.0	2204.5	2196.9	2195.2	2200.6	2181.4	2190.4
52.5°	2357.6	2394.1	2431.2	2451.0	2465.0	2466.2	2472.0	2465.0	2467.8	2463.3	2472.3
55°	2572.8	2636.1	2679.7	2718.2	2742.7	2763.8	2765.8	2773.4	2773.9	2783.2	2773.9
57.5°	2783.2	2852.1	2928.1	2996.4	3034.4	3058.4	3080.9	3111.5	3118.3	3114.6	3120.5
60°	3031.6	3138.2	3241.5	3320.2	3385.8	3448.6	3482.3	3530.4	3538.0	3558.8	3540.8
62.5°	3345.6	3500.3	3640.4	3746.5	3846.0	3943.7	4017.4	4054.5	4077.0	4120.6	4106.3
65°	3827.2	4012.9	4198.3	4350.2	4489.8	4606.0	4717.9	4771.4	4830.4	4892.4	4903.6
67.5°	4223.8	4453.8	4662.8	4847.8	5017.0	5146.1	5262.5	5355.2	5427.2	5472.8	5476.4
69°	4241.9	4480.8	4707.8	4906.4	5082.8	5220.1	5342.8	5445.8	5515.8	5562.4	5574.8
70°	4155.8	4400.2	4642.2	4842.8	5023.5	5163.8	5293.8	5392.0	5470.2	5517.8	5534.3
72.5°	3671.6	3932.8	4191.3	4367.1	4551.6	4718.8	4822.8	4923.0	5033.3	5047.6	5093.2
75°	2894.3	3113.8	3314.4	3448.8	3603.0	3753.0	3855.1	3881.6	3939.2	4011.8	3985.9
77.5°	1677.3	1744.8	1874.2	1907.4	1879.3	1944.5	1966.2	1920.1	1917.8	1960.4	1875.9
80°	371.6	350.6	377.0	357.3	357.8	358.4	352.5	350.2	354.5	350.2	344.3
82.5°	103.0	99.6	100.1	99.0	101.0	99.6	98.8	101.0	100.8	100.4	102.4
85°	49.5	49.0	48.1	47.8	46.8	45.3	43.0	43.0	44.2	42.4	43.3
87.5°	6.5	6.2	6.2	7.3	6.4	5.4	5.4	5.4	5.0	5.0	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)