

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: P148789

Luminaire Tested: **VWM-E02-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148789
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-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5706.5 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 52.1
Input Voltage (V): NR
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

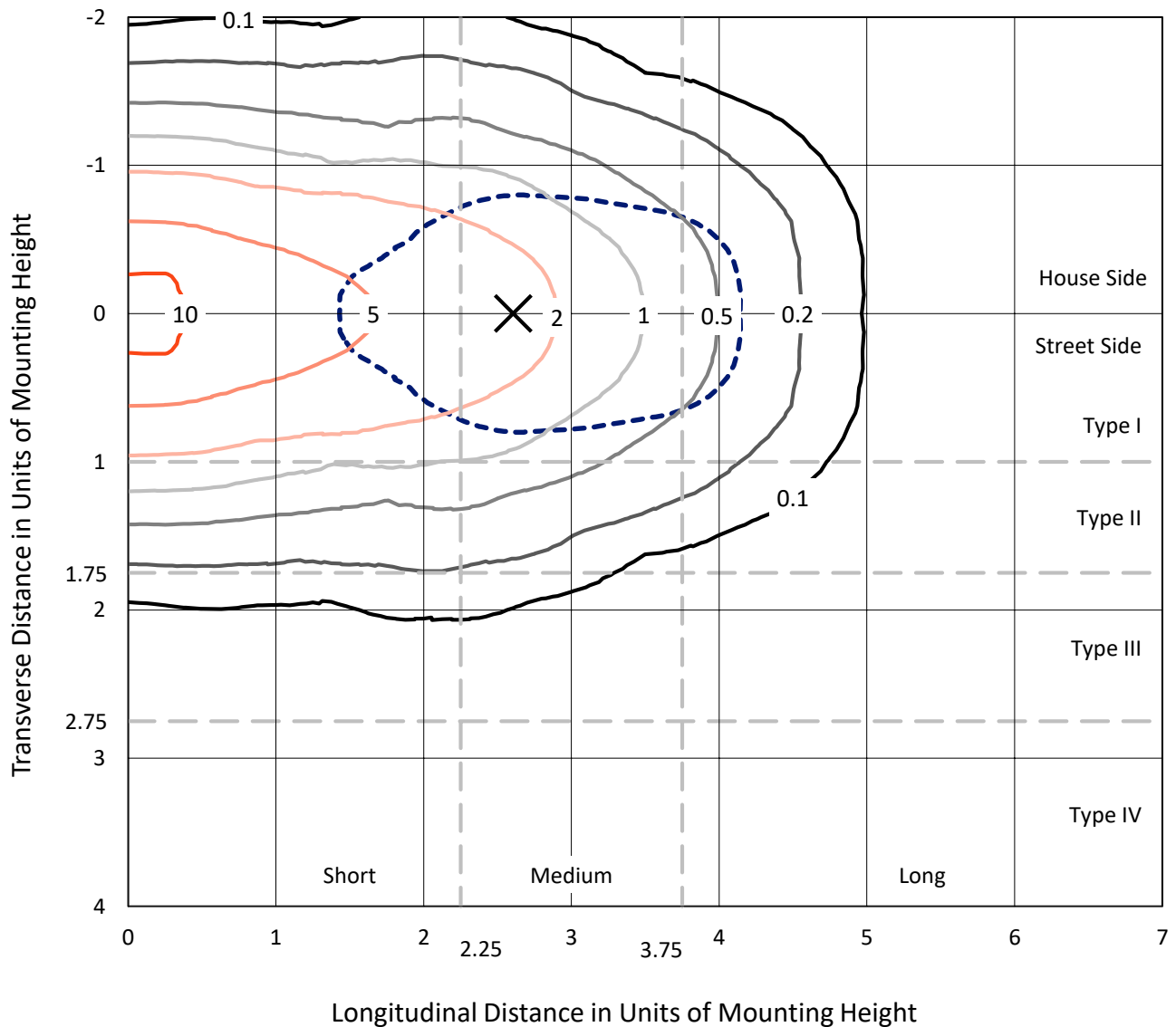


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

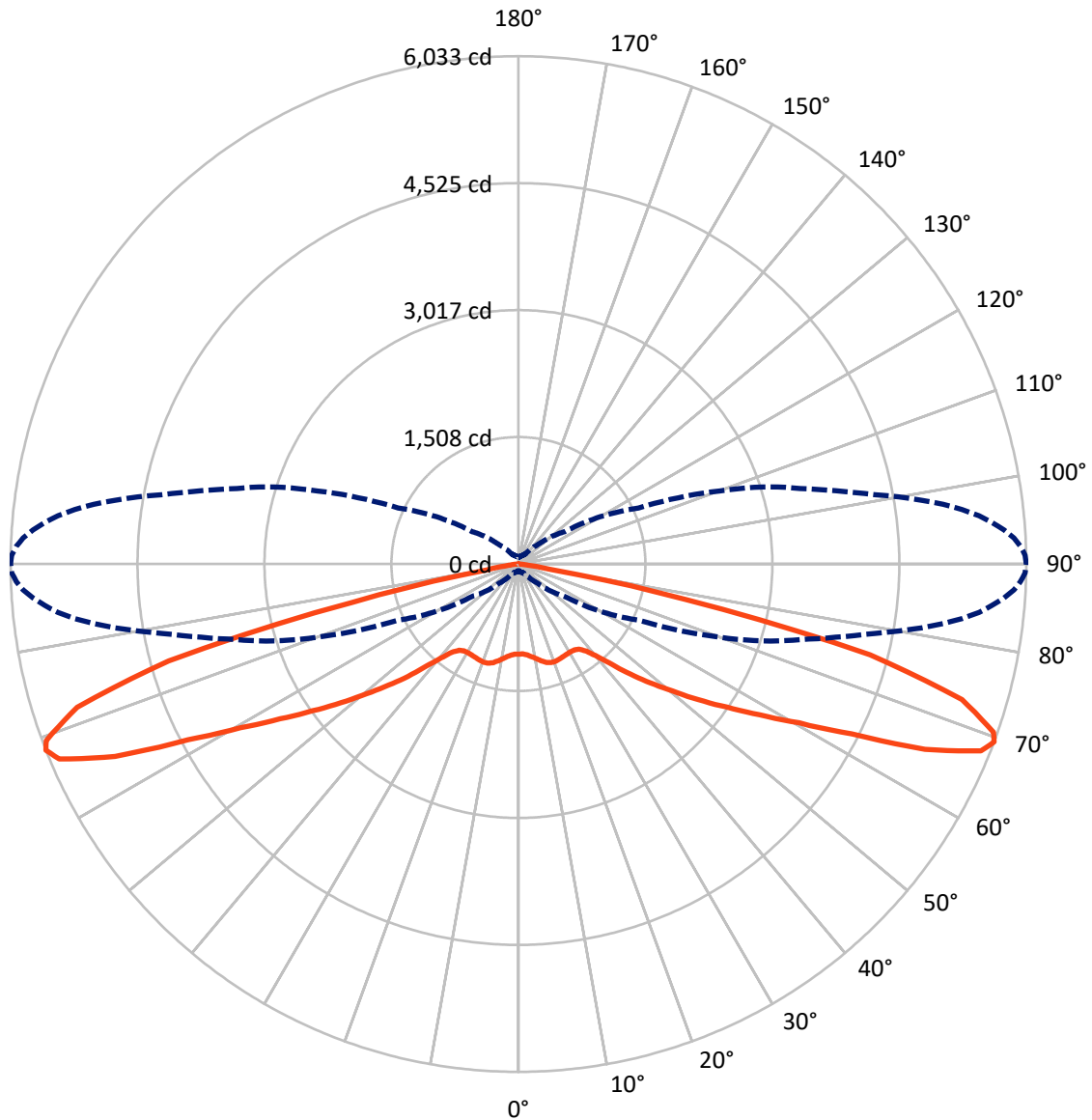


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type I - Short - Full Cutoff

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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	2853.3	0.0	2853.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2853.3	0.0	2853.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	5706.5	0.0	5706.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.8
10°-20°	330.9	5.8
20°-30°	536.0	9.4
30°-40°	668.0	11.7
40°-50°	834.8	14.6
50°-60°	1030.7	18.1
60°-70°	1280.8	22.4
70°-80°	850.3	14.9
80°-90°	70.2	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°	5706.5	100.0
0°-180°	5706.5	100.0

Coefficient of Utilization



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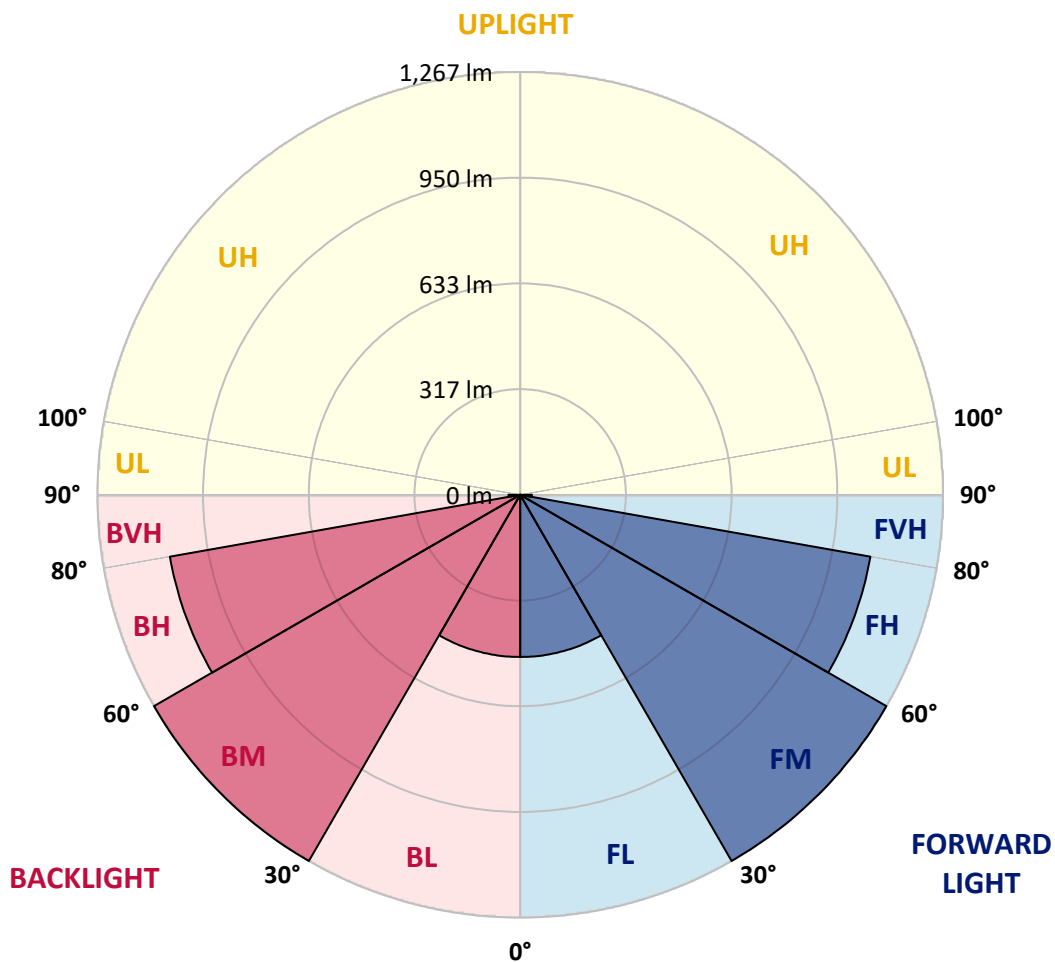
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.9	8.5			
FM (30°-60°)	1266.8	22.2			
FH (60°-80°)	1065.5	18.7			G1/1800
FVH (80°-90°)	35.1	0.6			G1/100
BL (0°-30°)	485.9	8.5	B1/500		
BM (30°-60°)	1266.8	22.2	B2/2500		
BH (60°-80°)	1065.5	18.7	B3/2500		G3/2500
BVH (80°-90°)	35.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
2.5°	1074.1	1075.0	1074.4	1075.6	1075.3	1075.3	1074.7	1073.5	1073.4	1073.2	1073.0
5°	1084.4	1083.2	1085.1	1086.9	1086.2	1086.6	1086.2	1086.3	1086.2	1086.1	1085.9
7.5°	1095.4	1095.2	1096.4	1101.2	1101.8	1103.6	1105.8	1107.3	1107.4	1107.4	1107.5
10°	1104.8	1105.2	1108.2	1115.2	1118.8	1124.6	1130.4	1135.0	1135.3	1135.7	1136.0
12.5°	1112.4	1112.8	1117.4	1128.3	1137.2	1148.0	1160.6	1167.6	1168.2	1168.8	1169.4
15°	1113.1	1114.0	1121.9	1139.8	1157.5	1175.4	1190.4	1199.8	1200.3	1200.8	1201.3
17.5°	1105.2	1105.8	1119.2	1145.6	1175.2	1203.2	1218.8	1222.9	1223.1	1223.3	1223.5
20°	1084.4	1086.0	1104.8	1144.2	1189.2	1225.7	1241.8	1236.1	1235.5	1234.9	1234.3
22.5°	1051.0	1050.6	1075.3	1128.3	1192.0	1243.4	1257.7	1242.5	1240.7	1238.9	1237.1
25°	996.8	1000.4	1029.4	1092.6	1176.4	1247.3	1269.0	1245.8	1243.3	1240.7	1238.1
27.5°	938.0	940.2	970.9	1038.8	1140.2	1233.6	1274.4	1252.5	1249.6	1246.7	1243.8
30°	869.6	872.2	905.2	976.0	1082.0	1198.4	1272.9	1267.8	1264.4	1261.0	1257.6
32.5°	802.5	805.6	835.1	912.8	1020.8	1149.9	1263.8	1289.4	1285.9	1282.4	1278.9
35°	733.1	737.7	773.6	852.2	961.8	1096.0	1249.8	1317.0	1315.1	1313.2	1311.3
37.5°	675.6	676.5	711.2	793.7	907.0	1044.6	1231.2	1352.1	1353.5	1354.9	1356.3
40°	611.3	617.2	651.8	738.9	857.3	1001.0	1213.6	1399.6	1406.8	1414.1	1421.4
42.5°	553.8	554.4	589.8	679.6	803.4	966.0	1203.8	1456.8	1472.4	1487.9	1503.5
45°	493.2	495.6	527.6	614.4	741.4	924.6	1203.4	1522.9	1547.7	1572.5	1597.4
47.5°	436.0	436.9	470.6	551.4	670.1	866.8	1201.4	1593.8	1627.6	1661.4	1695.3
50°	381.2	380.2	413.4	491.1	599.8	791.0	1182.8	1674.2	1716.9	1759.6	1802.3
52.5°	318.5	322.7	357.1	431.4	535.8	714.0	1128.6	1762.2	1813.2	1864.3	1915.4
55°	257.0	258.8	295.6	365.0	471.0	642.0	1034.2	1843.2	1903.4	1963.6	2023.8
57.5°	189.4	194.8	227.1	295.6	405.2	581.5	914.2	1885.2	1958.4	2031.7	2105.0
60°	133.7	137.9	166.5	224.0	333.1	517.9	811.0	1861.7	1956.9	2052.2	2147.4
62.5°	104.2	107.4	130.3	167.8	259.7	454.2	737.0	1785.9	1915.5	2045.1	2174.6
65°	91.3	94.4	115.1	134.2	193.9	389.4	696.6	1705.8	1877.1	2048.4	2219.7
67.5°	82.5	86.2	104.1	117.6	158.0	339.8	685.9	1655.3	1849.3	2043.3	2237.3
69°	78.6	82.2	98.3	109.6	146.8	322.1	667.7	1575.8	1768.7	1961.6	2154.5
70°	76.1	79.2	94.1	105.6	143.1	309.9	637.2	1476.6	1666.0	1855.4	2044.8
72.5°	70.6	72.2	85.2	96.6	132.8	250.6	490.2	1096.6	1260.8	1425.0	1589.2
75°	62.4	64.2	76.4	87.4	103.5	155.6	310.2	678.3	800.9	923.4	1046.0
77.5°	53.9	55.4	66.0	83.4	80.4	97.1	185.4	377.5	448.6	519.7	590.8
80°	43.2	45.0	54.5	82.8	66.4	75.5	133.4	264.0	283.1	302.3	321.5
82.5°	31.6	33.2	42.7	67.0	50.8	57.0	101.7	223.8	230.5	237.1	243.8
85°	16.2	16.4	27.0	40.8	32.2	29.6	57.2	153.2	157.4	161.7	165.9
87.5°	2.8	2.8	6.0	7.0	8.0	4.8	7.3	26.2	27.0	27.8	28.6
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°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
2.5°	1072.9	1072.8	1072.2	1072.3	1072.7	1072.5	1072.9	1073.0	1073.3	1072.1	1071.9
5°	1085.8	1085.7	1085.6	1085.6	1085.8	1085.8	1086.0	1086.5	1086.4	1085.6	1085.5
7.5°	1107.5	1107.6	1107.9	1107.6	1108.2	1107.8	1107.2	1108.2	1108.9	1109.0	1109.6
10°	1136.3	1136.7	1137.7	1137.6	1138.6	1138.5	1138.6	1139.7	1140.4	1140.5	1141.3
12.5°	1170.0	1170.6	1171.2	1171.7	1172.8	1172.2	1173.6	1174.3	1175.2	1177.0	1176.1
15°	1201.8	1202.2	1203.9	1204.0	1205.1	1205.5	1206.8	1207.4	1207.6	1209.1	1209.4
17.5°	1223.7	1223.8	1224.5	1224.2	1225.1	1224.8	1225.7	1226.2	1227.0	1227.8	1229.2
20°	1233.8	1233.2	1232.8	1232.5	1231.8	1230.9	1231.2	1231.6	1231.7	1232.4	1233.5
22.5°	1235.3	1233.5	1231.6	1230.3	1228.5	1226.9	1225.4	1225.5	1225.6	1225.5	1226.2
25°	1235.5	1232.9	1230.0	1226.5	1223.9	1220.4	1217.5	1217.2	1216.4	1216.5	1216.9
27.5°	1241.0	1238.1	1234.0	1230.0	1224.4	1219.8	1215.0	1213.4	1211.8	1210.7	1210.3
30°	1254.2	1250.8	1246.0	1240.9	1234.8	1227.5	1220.8	1218.8	1216.4	1214.3	1212.6
32.5°	1275.4	1272.0	1266.6	1261.3	1253.2	1246.0	1239.4	1236.1	1232.7	1229.1	1225.7
35°	1309.4	1307.5	1302.8	1298.0	1292.1	1286.5	1280.5	1276.7	1271.2	1268.3	1264.2
37.5°	1357.7	1359.1	1359.1	1359.7	1357.8	1355.1	1350.8	1346.9	1345.0	1337.5	1332.6
40°	1428.7	1435.9	1442.6	1447.8	1452.3	1456.8	1460.8	1458.4	1459.2	1457.1	1454.2
42.5°	1519.0	1534.6	1548.8	1563.0	1573.3	1589.3	1600.5	1604.0	1613.0	1616.6	1623.1
45°	1622.2	1647.1	1671.0	1693.0	1713.5	1736.4	1758.8	1775.4	1793.6	1814.2	1834.7
47.5°	1729.1	1762.9	1798.1	1826.8	1856.5	1890.5	1920.2	1945.2	1977.8	2008.0	2041.2
50°	1845.0	1887.7	1927.8	1963.2	2001.4	2040.5	2081.2	2118.0	2162.1	2210.4	2262.7
52.5°	1966.5	2017.6	2064.0	2108.4	2153.2	2198.1	2241.4	2293.3	2347.7	2411.5	2476.8
55°	2084.0	2144.2	2196.8	2246.3	2297.6	2347.8	2392.4	2461.9	2528.6	2604.8	2690.0
57.5°	2178.3	2251.6	2312.2	2371.0	2428.9	2482.2	2537.0	2615.4	2700.4	2789.5	2897.6
60°	2242.6	2337.8	2415.3	2486.0	2556.9	2624.0	2687.0	2789.5	2890.7	3001.4	3136.0
62.5°	2304.2	2433.8	2534.7	2631.1	2726.9	2813.0	2891.4	3020.2	3152.4	3289.2	3449.4
65°	2390.9	2562.2	2711.0	2845.3	2977.9	3104.4	3221.7	3384.9	3551.9	3731.8	3923.1
67.5°	2431.3	2625.2	2818.9	3000.1	3168.4	3328.5	3479.2	3676.6	3873.0	4081.6	4312.8
69°	2347.3	2540.2	2747.2	2945.1	3131.0	3300.9	3464.0	3665.5	3869.7	4082.8	4316.0
70°	2234.2	2423.6	2632.5	2839.3	3017.2	3194.2	3363.2	3563.2	3770.0	3983.6	4227.7
72.5°	1753.4	1917.6	2121.3	2322.1	2500.5	2678.1	2842.4	3046.9	3255.2	3479.6	3710.7
75°	1168.6	1291.2	1443.0	1629.2	1792.8	1949.8	2108.9	2282.0	2485.1	2670.1	2881.5
77.5°	661.9	733.0	821.2	942.3	1059.7	1153.7	1267.2	1348.5	1466.5	1568.3	1675.9
80°	340.7	359.8	386.2	415.2	431.8	429.1	446.0	429.3	433.0	419.4	404.8
82.5°	250.5	257.1	269.0	274.8	274.3	255.1	234.8	206.5	181.6	155.4	131.4
85°	170.2	174.4	177.4	181.9	180.7	172.4	154.0	129.5	105.6	84.7	67.8
87.5°	29.5	30.3	30.1	32.6	32.7	30.4	25.0	21.3	18.0	13.4	9.4
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°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
2.5°	1071.6	1071.6	1072.2	1071.6	1071.6	1071.6	1071.4	1072.0	1071.7	1070.8	1069.8
5°	1085.7	1084.8	1084.4	1085.0	1085.6	1084.4	1085.4	1086.3	1084.8	1085.1	1084.5
7.5°	1109.1	1108.8	1108.5	1109.1	1109.1	1108.8	1109.2	1108.2	1107.6	1108.5	1109.4
10°	1140.5	1140.2	1140.8	1140.8	1142.0	1141.4	1141.0	1142.0	1141.4	1140.8	1141.1
12.5°	1177.3	1176.4	1177.9	1178.0	1178.8	1178.8	1178.6	1178.8	1178.6	1177.6	1177.0
15°	1210.2	1209.0	1209.2	1211.8	1211.4	1212.0	1212.0	1211.4	1211.1	1210.8	1211.1
17.5°	1230.0	1229.4	1229.4	1230.6	1231.5	1231.2	1231.2	1231.2	1230.9	1231.2	1231.8
20°	1233.6	1233.6	1234.0	1235.2	1236.6	1235.8	1235.8	1236.4	1235.8	1236.4	1236.7
22.5°	1226.6	1227.2	1227.8	1229.4	1229.6	1229.6	1229.7	1230.0	1230.6	1230.6	1231.2
25°	1216.9	1217.5	1218.4	1219.6	1220.8	1220.8	1220.8	1221.4	1221.4	1221.8	1222.1
27.5°	1209.6	1210.2	1211.1	1212.3	1213.8	1213.8	1213.8	1214.4	1214.4	1214.8	1215.4
30°	1210.5	1209.2	1210.2	1210.8	1211.8	1211.7	1211.4	1211.7	1212.0	1212.0	1212.3
32.5°	1223.6	1220.8	1219.9	1219.6	1220.0	1219.0	1218.7	1218.1	1217.5	1217.5	1217.2
35°	1258.3	1254.0	1253.8	1251.3	1248.8	1246.4	1246.8	1244.9	1245.5	1244.0	1242.8
37.5°	1329.6	1324.7	1327.7	1322.6	1319.2	1316.8	1314.0	1310.4	1308.2	1311.0	1311.0
40°	1457.1	1453.8	1452.8	1453.8	1450.7	1452.2	1445.5	1443.7	1439.8	1442.5	1446.1
42.5°	1633.4	1631.2	1642.8	1645.0	1646.2	1648.0	1649.2	1639.2	1638.8	1636.7	1630.6
45°	1851.0	1863.8	1863.2	1877.2	1877.8	1873.6	1875.4	1870.8	1869.0	1862.3	1870.5
47.5°	2074.8	2099.2	2108.4	2111.4	2122.9	2125.6	2114.7	2111.0	2117.4	2106.4	2108.0
50°	2315.0	2341.2	2362.5	2376.8	2385.0	2385.6	2377.4	2375.6	2381.4	2360.7	2370.4
52.5°	2551.3	2590.9	2631.1	2652.4	2667.6	2668.8	2675.2	2667.6	2670.6	2665.8	2675.5
55°	2784.2	2852.7	2899.8	2941.6	2968.0	2991.0	2993.0	3001.2	3001.9	3011.9	3001.9
57.5°	3012.0	3086.6	3168.8	3242.7	3283.8	3309.7	3334.0	3367.2	3374.6	3370.6	3377.0
60°	3280.8	3396.1	3507.8	3593.2	3664.0	3732.0	3768.5	3820.6	3828.8	3851.3	3831.8
62.5°	3620.6	3788.0	3939.6	4054.4	4162.1	4267.8	4347.5	4387.8	4412.1	4459.3	4443.8
65°	4141.8	4342.7	4543.4	4707.7	4858.7	4984.5	5105.6	5163.5	5227.4	5294.4	5306.6
67.5°	4571.0	4819.8	5046.0	5246.3	5429.2	5569.0	5695.0	5795.2	5873.2	5922.4	5926.4
69°	4590.5	4849.0	5094.6	5309.6	5500.5	5649.0	5781.8	5893.2	5969.0	6019.6	6033.0
70°	4497.4	4761.9	5023.8	5240.8	5436.2	5588.2	5728.8	5835.1	5919.8	5971.2	5989.1
72.5°	3973.4	4255.9	4535.7	4726.0	4925.7	5106.6	5219.2	5327.5	5446.9	5462.5	5511.8
75°	3132.2	3369.6	3586.7	3732.2	3899.1	4061.4	4171.9	4200.5	4262.9	4341.5	4313.4
77.5°	1815.2	1888.2	2028.2	2064.2	2033.7	2104.4	2127.8	2077.9	2075.4	2121.4	2030.1
80°	402.2	379.3	408.0	386.6	387.2	387.8	381.5	379.0	383.6	379.0	372.6
82.5°	111.4	107.8	108.4	107.2	109.3	107.8	106.8	109.3	109.0	108.7	110.8
85°	53.6	53.0	52.0	51.8	50.6	49.0	46.6	46.6	47.8	46.0	46.9
87.5°	7.0	6.7	6.7	7.9	7.0	5.8	5.8	5.8	5.5	5.5	5.5
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)