

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: P148794

Luminaire Tested: **VWM-F02-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148794
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-F02-LED-E1-RW-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4710.9 lumens
Efficiency: N/A
Efficacy: 85.7 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): 55
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

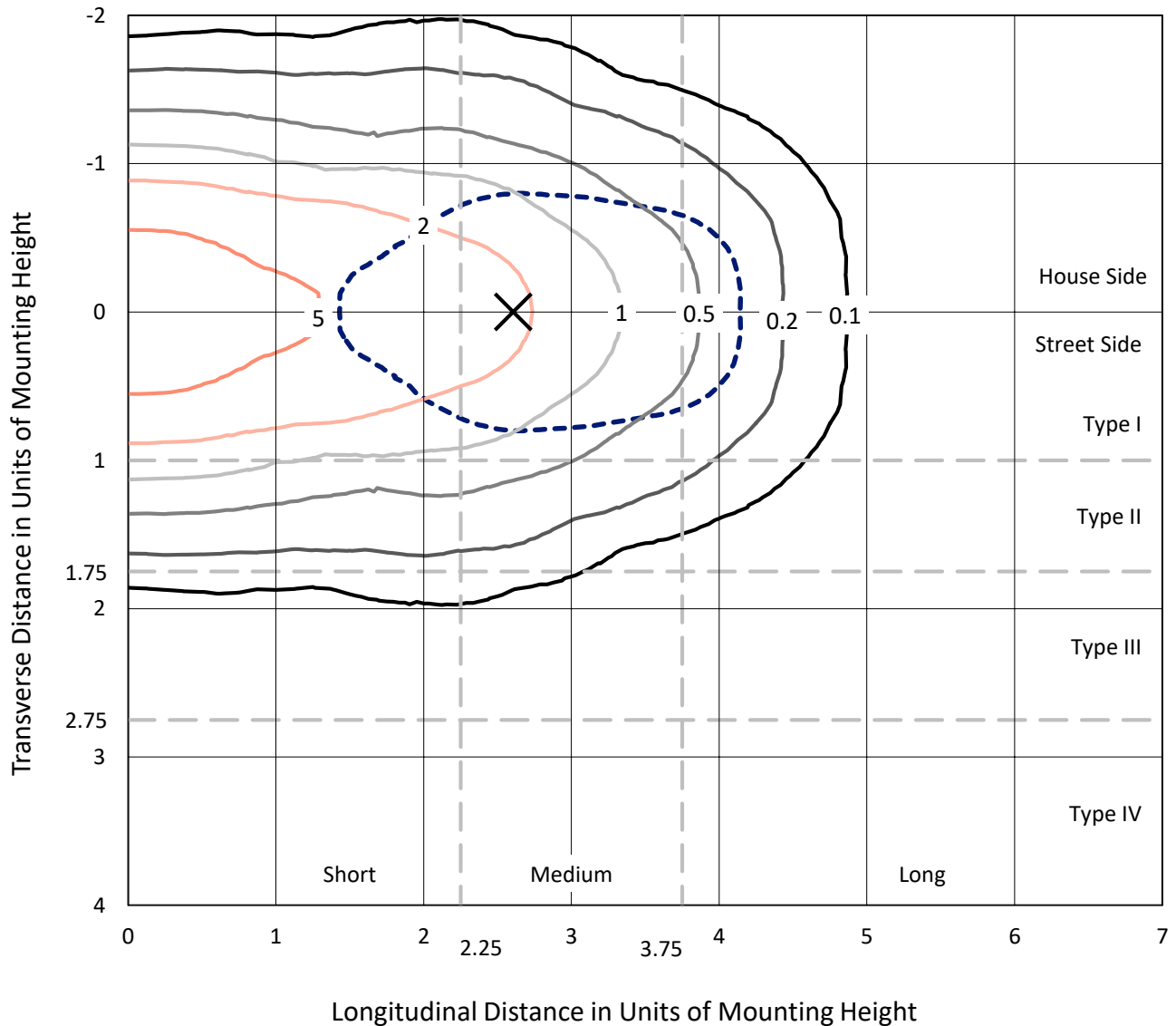


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

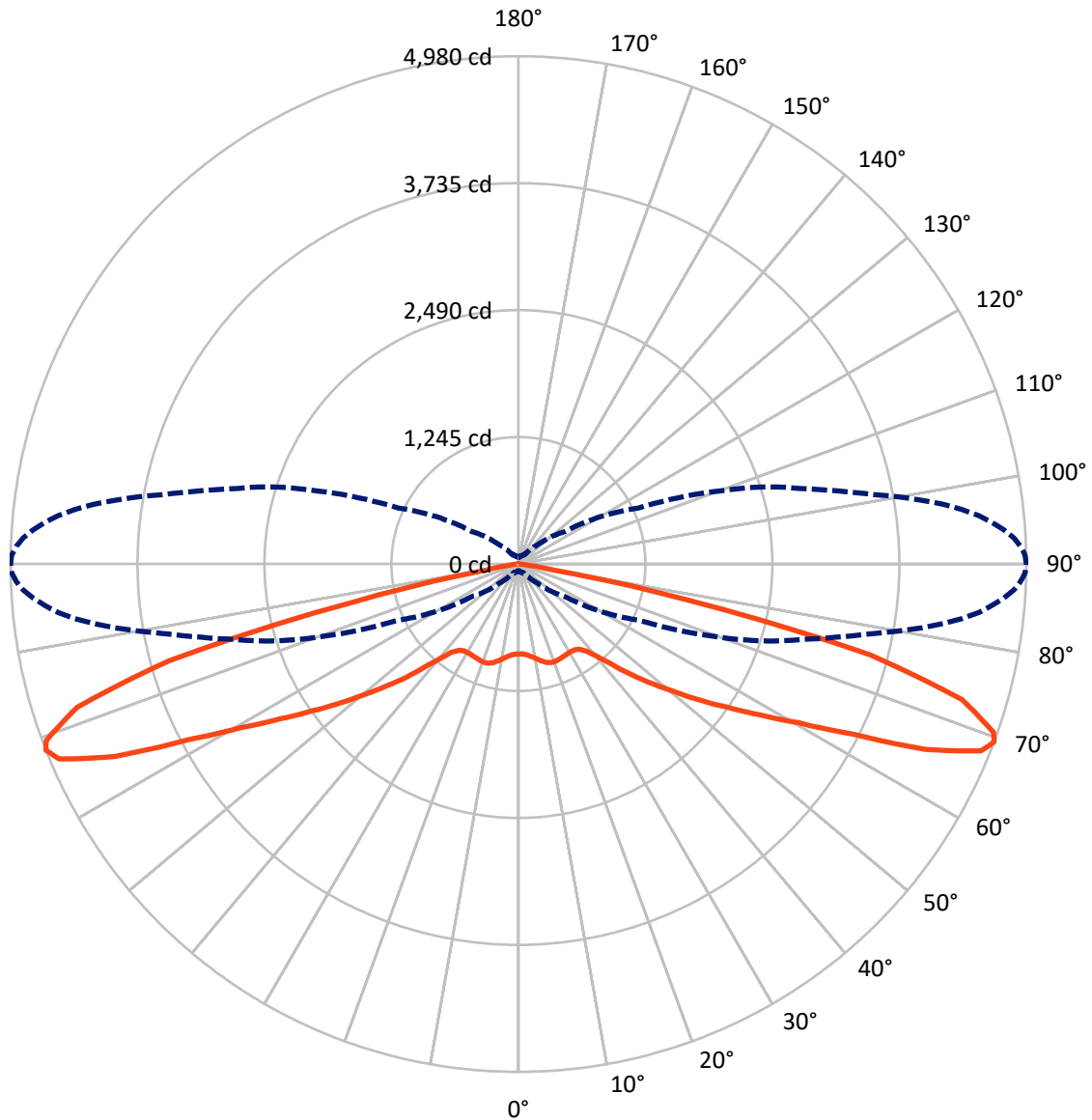


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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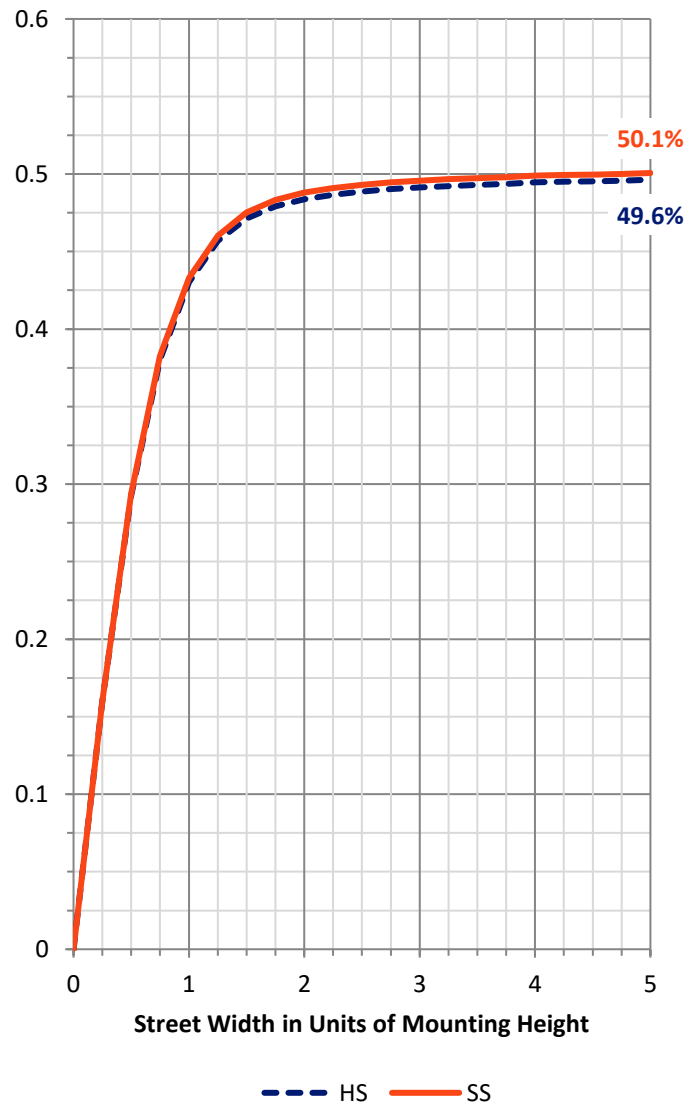
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2355.4	0.0	2355.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2355.4	0.0	2355.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	4710.9	0.0	4710.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	1.8
10°-20°	273.1	5.8
20°-30°	442.5	9.4
30°-40°	551.5	11.7
40°-50°	689.1	14.6
50°-60°	850.9	18.1
60°-70°	1057.3	22.4
70°-80°	701.9	14.9
80°-90°	57.9	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°	4710.9	100.0
0°-180°	4710.9	100.0



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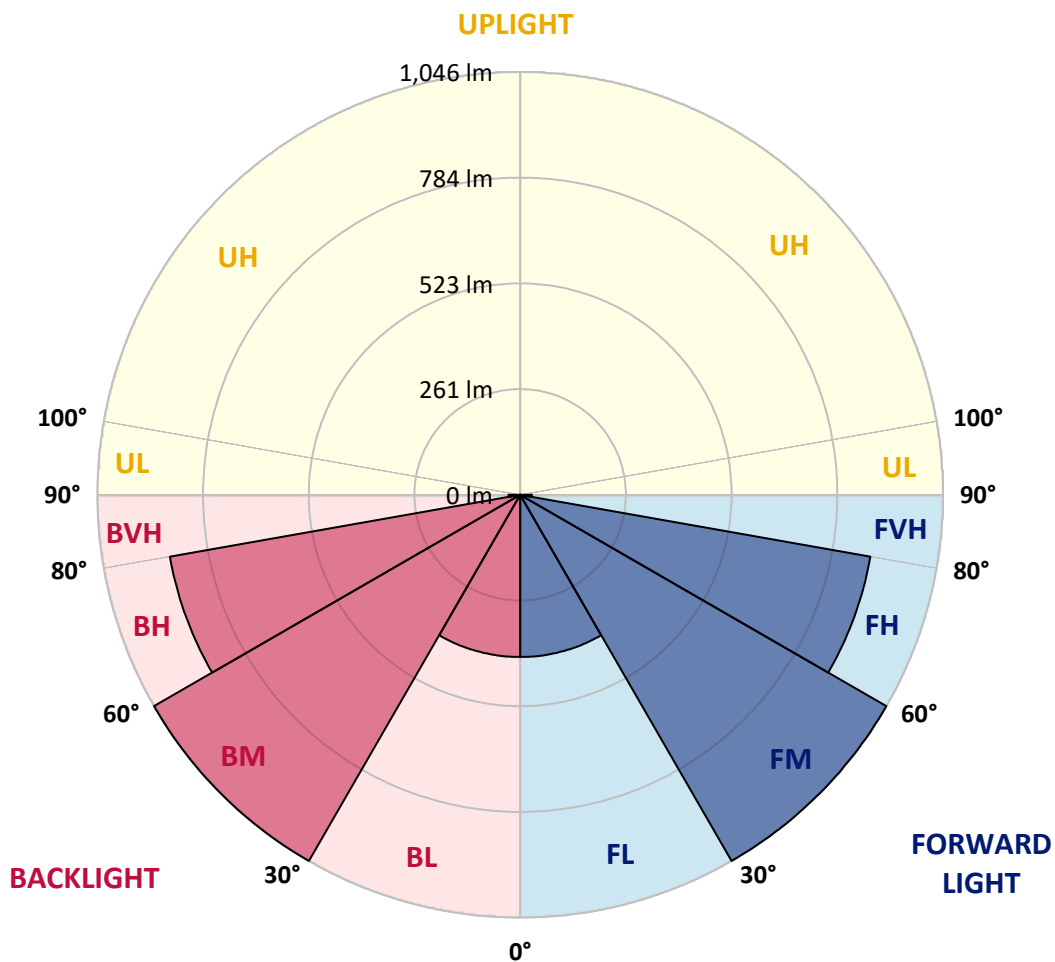
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.1	8.5			
FM	(30°-60°)	1045.8	22.2			
FH	(60°-80°)	879.6	18.7			G1/1800
FVH	(80°-90°)	29.0	0.6			G1/100
BL	(0°-30°)	401.1	8.5	B1/500		
BM	(30°-60°)	1045.8	22.2	B2/2500		
BH	(60°-80°)	879.6	18.7	B2/1000		G2/1000
BVH	(80°-90°)	29.0	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°	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7
2.5°	886.7	887.4	887.0	888.0	887.7	887.7	887.2	886.2	886.1	886.0	885.8
5°	895.2	894.2	895.8	897.2	896.8	897.0	896.8	896.8	896.6	896.6	896.4
7.5°	904.3	904.0	905.0	909.0	909.6	911.0	912.8	914.1	914.2	914.2	914.2
10°	912.1	912.4	914.8	920.6	923.6	928.4	933.2	937.0	937.2	937.5	937.8
12.5°	918.4	918.6	922.4	931.4	938.7	947.8	958.1	963.8	964.4	964.9	965.4
15°	918.8	919.6	926.2	941.0	955.6	970.4	982.7	990.5	990.9	991.3	991.7
17.5°	912.4	912.8	923.9	945.8	970.1	993.3	1006.0	1009.6	1009.8	1009.9	1010.0
20°	895.2	896.4	912.0	944.5	981.7	1011.8	1025.2	1020.4	1019.9	1019.4	1019.0
22.5°	867.6	867.4	887.7	931.4	984.0	1026.4	1038.2	1025.7	1024.2	1022.7	1021.2
25°	822.9	825.9	849.8	902.0	971.1	1029.7	1047.5	1028.4	1026.3	1024.2	1022.0
27.5°	774.4	776.1	801.5	857.6	941.2	1018.4	1052.0	1034.0	1031.6	1029.2	1026.8
30°	717.8	720.1	747.2	805.8	893.2	989.2	1050.8	1046.6	1043.8	1041.0	1038.2
32.5°	662.6	665.0	689.4	753.5	842.8	949.3	1043.3	1064.4	1061.5	1058.7	1055.8
35°	605.2	609.0	638.6	703.5	794.0	904.8	1031.7	1087.2	1085.7	1084.1	1082.5
37.5°	557.7	558.4	587.1	655.2	748.7	862.4	1016.4	1116.2	1117.3	1118.5	1119.6
40°	504.6	509.4	538.1	610.0	707.8	826.4	1001.8	1155.4	1161.4	1167.4	1173.4
42.5°	457.2	457.6	486.8	561.0	663.2	797.5	993.8	1202.6	1215.4	1228.3	1241.1
45°	407.2	409.2	435.6	507.2	612.0	763.3	993.6	1257.2	1277.7	1298.2	1318.7
47.5°	359.9	360.6	388.6	455.2	553.2	715.6	991.8	1315.7	1343.6	1371.6	1399.5
50°	314.7	314.0	341.3	405.4	495.2	653.0	976.4	1382.1	1417.3	1452.6	1487.9
52.5°	262.9	266.4	294.8	356.1	442.4	589.4	931.7	1454.7	1496.9	1539.1	1581.2
55°	212.1	213.6	244.0	301.4	388.8	530.0	853.8	1521.6	1571.3	1621.0	1670.7
57.5°	156.3	160.8	187.5	244.0	334.5	480.0	754.8	1556.2	1616.7	1677.2	1737.7
60°	110.3	113.8	137.4	185.0	275.0	427.6	669.6	1536.9	1615.5	1694.1	1772.7
62.5°	85.9	88.8	107.6	138.5	214.4	375.0	608.4	1474.3	1581.3	1688.2	1795.2
65°	75.4	77.9	95.0	110.8	160.1	321.4	575.0	1408.2	1549.6	1691.0	1832.4
67.5°	68.2	71.2	86.0	97.0	130.4	280.5	566.2	1366.5	1526.6	1686.8	1847.0
69°	64.8	67.9	81.2	90.5	121.2	265.9	551.2	1300.8	1460.1	1619.3	1778.5
70°	62.8	65.3	77.6	87.2	118.2	255.8	526.0	1219.0	1375.3	1531.7	1688.0
72.5°	58.3	59.6	70.4	79.6	109.6	206.8	404.6	905.3	1040.8	1176.4	1311.9
75°	51.6	53.0	63.0	72.2	85.4	128.4	256.1	560.0	661.2	762.4	863.5
77.5°	44.4	45.7	54.6	68.8	66.4	80.2	153.0	311.6	370.3	429.0	487.7
80°	35.7	37.2	45.0	68.4	54.8	62.4	110.1	217.9	233.7	249.6	265.4
82.5°	26.1	27.4	35.2	55.3	42.0	47.0	83.9	184.7	190.2	195.7	201.2
85°	13.4	13.6	22.4	33.7	26.6	24.4	47.2	126.4	129.9	133.4	137.0
87.5°	2.2	2.2	5.0	5.8	6.5	4.0	6.0	21.6	22.3	23.0	23.7
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°	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7
2.5°	885.7	885.6	885.2	885.2	885.6	885.4	885.7	885.8	886.0	885.1	884.9
5°	896.4	896.2	896.2	896.2	896.4	896.3	896.5	896.9	896.8	896.2	896.1
7.5°	914.3	914.4	914.6	914.4	914.8	914.6	914.1	914.9	915.4	915.5	916.0
10°	938.0	938.3	939.2	939.1	940.0	939.8	940.0	940.8	941.4	941.5	942.1
12.5°	965.9	966.4	966.8	967.3	968.2	967.7	968.9	969.4	970.2	971.6	970.9
15°	992.1	992.5	993.9	994.0	994.8	995.2	996.2	996.7	996.9	998.1	998.3
17.5°	1010.2	1010.4	1010.8	1010.6	1011.4	1011.1	1011.8	1012.3	1012.9	1013.6	1014.7
20°	1018.5	1018.0	1017.7	1017.5	1016.9	1016.2	1016.4	1016.8	1016.8	1017.4	1018.3
22.5°	1019.8	1018.3	1016.7	1015.7	1014.2	1012.9	1011.6	1011.7	1011.8	1011.7	1012.2
25°	1019.9	1017.8	1015.4	1012.5	1010.4	1007.5	1005.1	1004.9	1004.2	1004.2	1004.5
27.5°	1024.4	1022.0	1018.7	1015.3	1010.8	1006.9	1003.0	1001.7	1000.4	999.5	999.1
30°	1035.4	1032.6	1028.6	1024.3	1019.3	1013.3	1007.8	1006.1	1004.2	1002.4	1001.0
32.5°	1052.9	1050.0	1045.6	1041.2	1034.5	1028.6	1023.2	1020.4	1017.6	1014.6	1011.8
35°	1080.9	1079.4	1075.5	1071.6	1066.7	1062.0	1057.1	1054.0	1049.4	1047.0	1043.6
37.5°	1120.8	1121.9	1121.9	1122.4	1121.0	1118.7	1115.2	1111.9	1110.4	1104.1	1100.1
40°	1179.4	1185.4	1190.9	1195.2	1198.9	1202.6	1205.9	1204.0	1204.6	1202.9	1200.5
42.5°	1254.0	1266.8	1278.6	1290.3	1298.8	1312.0	1321.2	1324.2	1331.6	1334.5	1340.0
45°	1339.2	1359.7	1379.4	1397.6	1414.6	1433.5	1452.0	1465.7	1480.6	1497.6	1514.6
47.5°	1427.4	1455.4	1484.4	1508.1	1532.6	1560.6	1585.1	1605.8	1632.8	1657.7	1685.1
50°	1523.1	1558.4	1591.4	1620.7	1652.3	1684.6	1718.1	1748.5	1784.9	1824.7	1867.9
52.5°	1623.4	1665.6	1703.9	1740.6	1777.6	1814.6	1850.3	1893.2	1938.1	1990.7	2044.7
55°	1720.4	1770.2	1813.5	1854.4	1896.8	1938.1	1975.0	2032.3	2087.4	2150.3	2220.7
57.5°	1798.2	1858.7	1908.8	1957.3	2005.1	2049.1	2094.4	2159.0	2229.2	2302.8	2392.1
60°	1851.4	1930.0	1993.8	2052.2	2110.8	2166.2	2218.2	2302.8	2386.4	2477.7	2588.9
62.5°	1902.2	2009.1	2092.5	2172.1	2251.1	2322.2	2386.9	2493.3	2602.4	2715.3	2847.5
65°	1973.8	2115.2	2238.0	2348.9	2458.3	2562.7	2659.6	2794.4	2932.1	3080.7	3238.6
67.5°	2007.1	2167.2	2327.1	2476.6	2615.6	2747.8	2872.2	3035.1	3197.3	3369.5	3560.3
69°	1937.8	2097.0	2267.9	2431.2	2584.7	2725.0	2859.6	3026.0	3194.6	3370.4	3562.9
70°	1844.4	2000.7	2173.2	2343.9	2490.8	2636.9	2776.4	2941.5	3112.3	3288.6	3490.1
72.5°	1447.5	1583.0	1751.2	1916.9	2064.3	2210.9	2346.4	2515.3	2687.2	2872.5	3063.2
75°	964.7	1065.9	1191.2	1345.0	1480.0	1609.6	1741.0	1883.8	2051.6	2204.2	2378.8
77.5°	546.4	605.1	677.9	777.8	874.8	952.4	1046.0	1113.2	1210.6	1294.7	1383.5
80°	281.2	297.1	318.8	342.8	356.4	354.3	368.2	354.4	357.5	346.2	334.2
82.5°	206.7	212.2	222.1	226.9	226.4	210.6	193.8	170.5	149.9	128.3	108.5
85°	140.5	144.0	146.5	150.2	149.2	142.3	127.2	107.0	87.2	70.0	56.0
87.5°	24.3	25.0	24.8	26.9	27.0	25.0	20.6	17.6	14.8	11.0	7.8
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°	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7
2.5°	884.7	884.7	885.2	884.7	884.7	884.7	884.4	885.0	884.7	884.0	883.2
5°	896.2	895.5	895.2	895.8	896.2	895.2	896.0	896.8	895.4	895.7	895.2
7.5°	915.6	915.4	915.1	915.6	915.6	915.4	915.6	914.8	914.4	915.1	915.9
10°	941.5	941.2	941.8	941.8	942.8	942.2	942.0	942.8	942.2	941.8	942.0
12.5°	971.9	971.2	972.4	972.4	973.2	973.2	972.9	973.2	972.9	972.2	971.6
15°	999.0	998.0	998.3	1000.3	1000.0	1000.6	1000.6	1000.0	999.8	999.6	999.8
17.5°	1015.4	1014.9	1014.9	1015.9	1016.6	1016.4	1016.4	1016.4	1016.2	1016.4	1016.9
20°	1018.4	1018.4	1018.6	1019.6	1020.9	1020.2	1020.2	1020.6	1020.2	1020.6	1020.9
22.5°	1012.6	1013.1	1013.6	1014.8	1015.1	1015.1	1015.1	1015.4	1015.9	1015.9	1016.4
25°	1004.6	1005.1	1005.8	1006.8	1007.8	1007.8	1007.8	1008.4	1008.4	1008.6	1008.8
27.5°	998.6	999.0	999.8	1000.8	1002.0	1002.0	1002.1	1002.6	1002.6	1002.8	1003.3
30°	999.2	998.3	999.0	999.6	1000.3	1000.3	1000.0	1000.2	1000.6	1000.6	1000.8
32.5°	1010.1	1007.8	1007.1	1006.8	1007.0	1006.4	1006.1	1005.6	1005.1	1005.0	1004.8
35°	1038.8	1035.2	1034.9	1033.0	1031.0	1029.0	1029.2	1027.7	1028.2	1026.9	1025.9
37.5°	1097.6	1093.6	1096.0	1091.8	1089.0	1087.1	1084.8	1081.8	1080.0	1082.2	1082.2
40°	1202.9	1200.1	1199.4	1200.1	1197.6	1198.8	1193.3	1191.8	1188.6	1190.8	1193.8
42.5°	1348.4	1346.6	1356.2	1357.9	1359.0	1360.4	1361.4	1353.2	1352.9	1351.2	1346.1
45°	1528.1	1538.6	1538.2	1549.7	1550.2	1546.7	1548.2	1544.4	1542.9	1537.4	1544.2
47.5°	1712.8	1732.9	1740.5	1743.0	1752.6	1754.8	1745.8	1742.7	1748.0	1739.0	1740.2
50°	1911.1	1932.7	1950.4	1962.2	1969.0	1969.4	1962.6	1961.2	1966.0	1948.8	1956.9
52.5°	2106.2	2138.8	2172.0	2189.6	2202.2	2203.2	2208.4	2202.2	2204.7	2200.6	2208.7
55°	2298.4	2355.0	2394.0	2428.4	2450.2	2469.0	2470.8	2477.6	2478.2	2486.4	2478.1
57.5°	2486.4	2548.0	2615.9	2676.9	2710.8	2732.2	2752.3	2779.8	2785.8	2782.5	2787.8
60°	2708.4	2803.6	2895.8	2966.2	3024.8	3080.8	3111.0	3154.0	3160.8	3179.4	3163.3
62.5°	2988.8	3127.0	3252.2	3347.0	3436.0	3523.2	3589.0	3622.2	3642.3	3681.2	3668.4
65°	3419.1	3585.0	3750.6	3886.3	4011.0	4114.8	4214.8	4262.6	4315.4	4370.6	4380.7
67.5°	3773.5	3978.8	4165.6	4330.9	4482.0	4597.4	4701.4	4784.1	4848.5	4889.2	4892.4
69°	3789.6	4003.0	4205.8	4383.2	4540.8	4663.4	4773.0	4865.0	4927.6	4969.3	4980.4
70°	3712.7	3931.1	4147.2	4326.4	4487.8	4613.2	4729.3	4817.0	4886.8	4929.4	4944.2
72.5°	3280.2	3513.4	3744.3	3901.4	4066.3	4215.6	4308.6	4398.0	4496.6	4509.4	4550.1
75°	2585.7	2781.8	2960.9	3081.1	3218.8	3352.8	3444.0	3467.6	3519.2	3584.0	3560.9
77.5°	1498.4	1558.8	1674.4	1704.0	1678.9	1737.2	1756.6	1715.3	1713.4	1751.2	1675.9
80°	332.0	313.2	336.8	319.2	319.7	320.2	314.9	312.9	316.7	313.0	307.6
82.5°	91.9	88.9	89.5	88.4	90.2	89.0	88.2	90.2	90.0	89.8	91.5
85°	44.2	43.8	43.0	42.7	41.7	40.4	38.4	38.4	39.4	38.0	38.7
87.5°	5.8	5.5	5.5	6.5	5.8	4.8	4.8	4.8	4.5	4.5	4.5
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)