

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: P151083

Luminaire Tested: **VWM-F03-LED-E1-SL3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151083
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F03-LED-E1-SL3-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6346.2 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

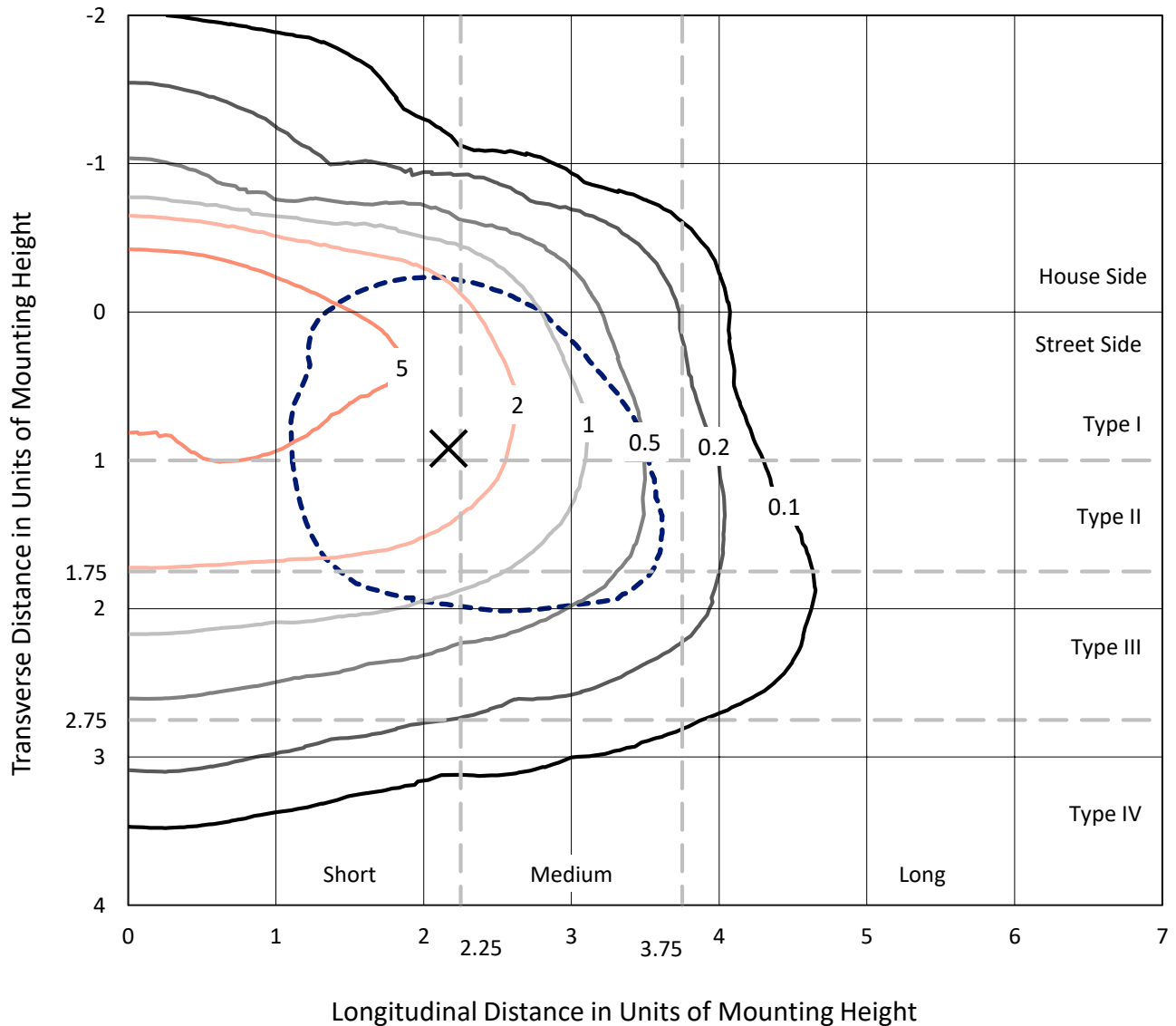
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

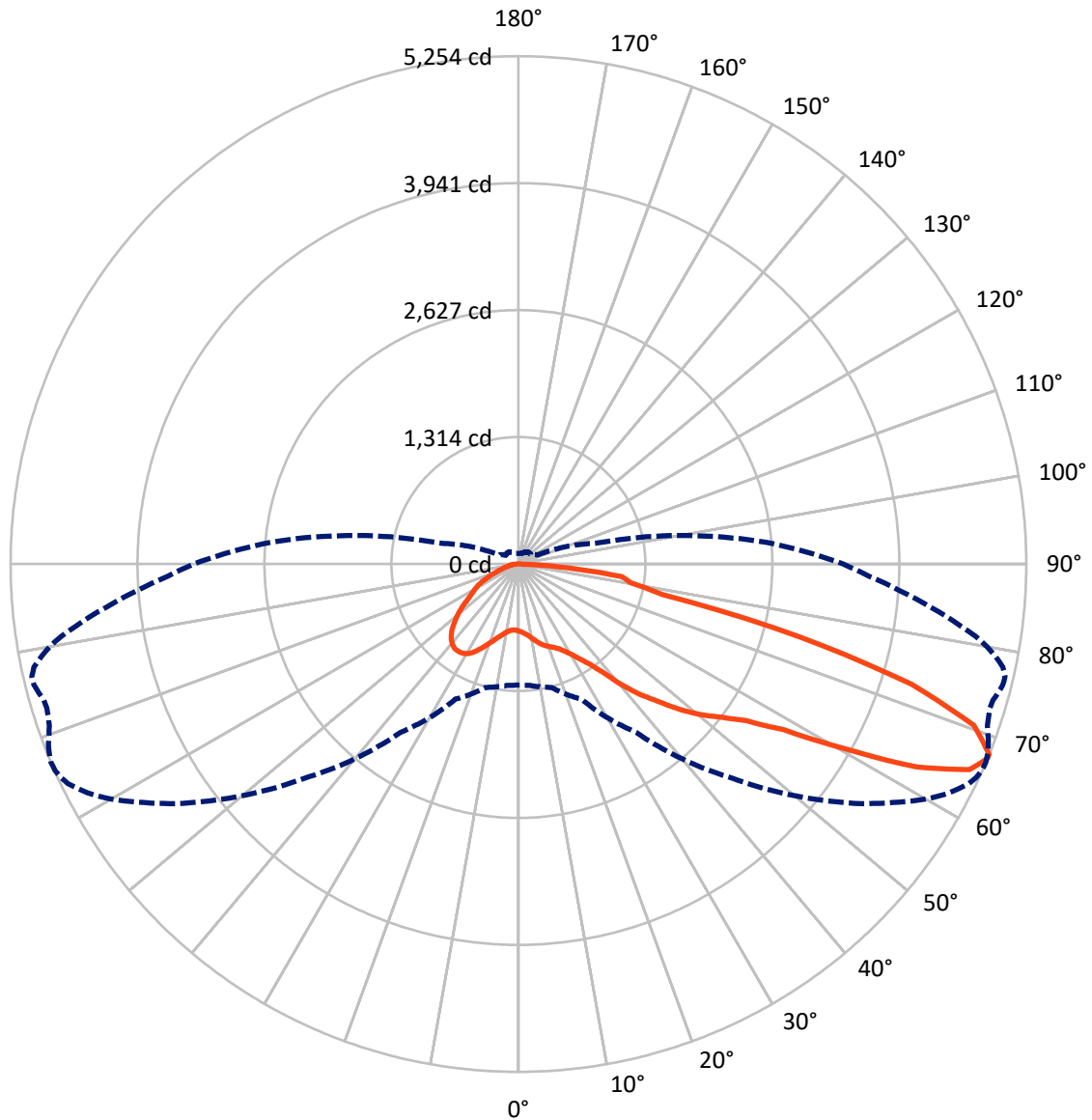
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1464.5	0.0	1464.5
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4881.7	0.0	4881.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	6346.2	0.0	6346.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	1.1
10°-20°	236.7	3.7
20°-30°	417.9	6.6
30°-40°	599.8	9.5
40°-50°	911.0	14.4
50°-60°	1341.3	21.1
60°-70°	1782.6	28.1
70°-80°	872.1	13.7
80°-90°	115.8	1.8
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°	6346.2	100.0
0°-180°	6346.2	100.0



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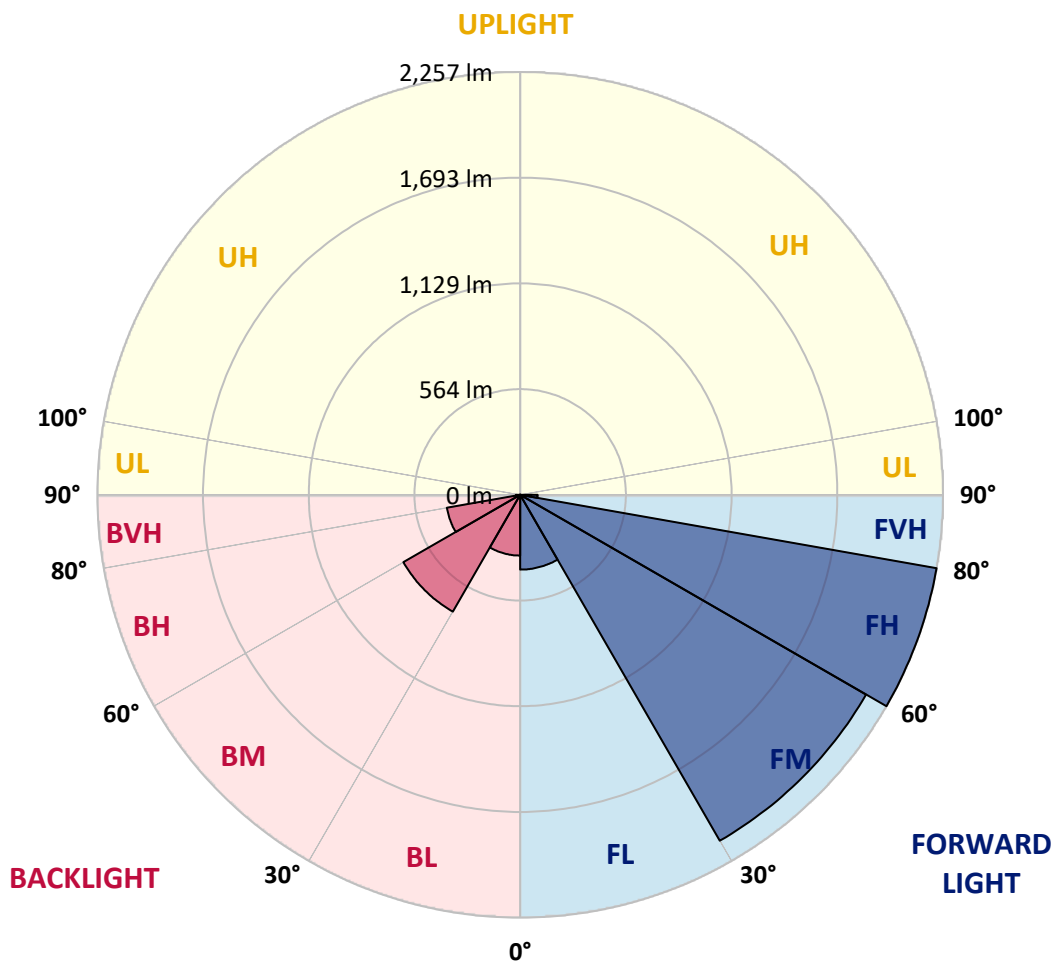
CATALOG NUMBER: VWM-F03-LED-E1-SL3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.2	6.3			
FM	(30°-60°)	2132.2	33.6			
FH	(60°-80°)	2257.3	35.6			G2/5000
FVH	(80°-90°)	93.0	1.5			G1/100
BL	(0°-30°)	324.3	5.1	B1/500		
BM	(30°-60°)	720.0	11.3	B1/1000		
BH	(60°-80°)	397.4	6.3	B1/500		G1/500
BVH	(80°-90°)	22.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3
2.5°	726.0	726.7	725.3	724.6	720.4	716.2	713.5	710.0	710.0	710.0	708.6
5°	767.1	764.3	766.4	761.5	753.2	745.5	737.8	731.6	730.2	730.2	727.4
7.5°	816.6	813.1	811.7	804.7	792.2	781.0	765.7	759.4	756.0	754.6	753.2
10°	876.5	876.5	867.4	855.6	838.9	819.4	802.6	791.5	790.8	790.8	784.5
12.5°	937.8	939.2	927.4	915.5	888.3	862.6	843.1	830.5	829.8	827.0	823.5
15°	994.2	990.8	983.1	965.7	935.7	905.1	880.7	868.1	865.3	862.6	860.5
17.5°	1040.9	1037.4	1027.7	1005.4	974.0	937.8	907.8	894.6	893.2	891.8	889.0
20°	1070.2	1067.4	1053.5	1027.7	994.9	958.0	926.0	916.9	914.1	914.1	912.7
22.5°	1086.9	1082.7	1062.5	1028.4	996.3	969.2	942.7	937.1	935.0	935.7	935.7
25°	1095.3	1091.8	1063.2	1014.4	983.8	976.1	965.0	961.5	962.2	962.9	964.3
27.5°	1096.7	1091.8	1058.3	996.3	967.8	989.4	997.0	1002.6	1002.6	1005.4	1010.3
30°	1086.2	1080.6	1048.6	982.4	960.8	1015.8	1046.5	1061.1	1066.7	1065.3	1076.5
32.5°	1068.1	1064.6	1038.8	982.4	980.3	1068.1	1122.4	1143.3	1146.1	1147.5	1160.1
35°	1061.8	1061.1	1050.0	1015.8	1040.9	1160.1	1243.0	1259.0	1262.5	1262.5	1271.5
37.5°	1060.4	1063.9	1076.5	1078.5	1147.5	1296.6	1405.3	1429.7	1429.7	1436.7	1436.7
40°	1060.4	1068.1	1115.5	1171.9	1277.8	1474.3	1624.8	1652.7	1652.7	1660.3	1656.1
42.5°	1101.5	1112.7	1190.7	1298.0	1442.2	1657.5	1830.3	1861.7	1863.8	1861.7	1867.9
45°	1182.4	1192.1	1286.9	1440.8	1611.5	1854.0	2026.8	2064.4	2056.8	2061.6	2063.7
47.5°	1289.7	1305.0	1413.0	1596.9	1776.7	2035.9	2247.0	2281.1	2278.3	2280.4	2271.4
50°	1403.9	1419.9	1540.5	1751.6	1941.1	2182.2	2423.9	2474.8	2469.9	2473.4	2478.3
52.5°	1504.9	1514.7	1631.1	1867.9	2065.8	2318.7	2559.8	2623.2	2634.4	2635.8	2639.2
55°	1564.9	1576.7	1683.3	1925.8	2156.4	2452.5	2715.2	2811.3	2832.9	2838.5	2853.8
57.5°	1585.8	1598.3	1695.2	1934.1	2205.9	2577.9	2931.9	3101.2	3119.3	3149.2	3198.0
60°	1585.1	1598.3	1682.6	1915.3	2256.0	2733.3	3269.1	3552.7	3644.6	3675.3	3745.0
62.5°	1520.3	1535.6	1621.3	1858.2	2320.1	2931.9	3770.7	4206.9	4325.3	4381.1	4456.3
65°	1378.1	1389.3	1469.4	1713.3	2302.0	3127.6	4190.2	4734.3	4842.3	4923.8	5058.3
67°	1252.0	1259.0	1321.7	1541.9	2125.0	3134.6	4322.5	4865.3	4959.4	5045.8	5184.4
67.5°	1220.0	1234.6	1283.4	1489.6	2058.9	3094.9	4313.5	4845.1	4941.2	5031.1	5177.4
70°	992.8	1013.8	1038.1	1176.8	1618.5	2603.7	3993.7	4495.3	4579.6	4663.3	4867.4
72.5°	612.4	650.1	654.9	742.7	1053.5	1799.7	3231.5	3790.9	3854.3	3914.3	4123.3
75°	360.9	366.5	383.9	455.0	618.0	1075.8	2168.2	2816.2	2874.7	2904.0	3067.7
77.5°	201.4	206.9	221.6	282.9	475.2	724.6	1262.5	1654.7	1690.3	1727.2	1700.7
80°	83.6	91.3	98.2	114.3	222.3	572.0	868.1	1052.1	1075.1	1096.7	1123.8
82.5°	40.4	43.2	53.0	60.6	80.8	234.8	680.7	912.0	939.2	970.6	1034.0
85°	18.8	20.9	29.3	34.8	39.0	59.2	227.8	443.8	481.4	488.4	501.0
87.5°	1.4	1.4	3.5	4.9	7.0	7.7	23.7	33.4	37.6	34.1	43.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3
2.5°	707.9	707.2	705.8	705.8	705.1	705.1	705.1	703.7	703.7	703.7	703.0
5°	726.7	726.0	723.9	723.9	722.5	722.5	720.4	719.7	718.3	718.3	717.6
7.5°	751.1	750.4	747.6	747.6	745.5	744.8	743.4	741.3	741.3	739.9	738.5
10°	784.5	782.4	781.7	778.3	779.0	777.6	776.2	774.1	772.7	771.3	769.9
12.5°	822.1	822.1	818.7	816.6	818.0	816.6	813.8	813.1	811.0	811.0	808.9
15°	857.7	857.7	856.3	853.5	854.2	852.1	851.4	850.0	847.2	847.9	847.2
17.5°	888.3	888.3	886.2	884.9	884.9	882.8	883.5	882.1	880.7	880.0	877.9
20°	912.7	912.7	911.3	909.9	910.6	910.6	908.5	908.5	908.5	907.1	907.1
22.5°	936.4	937.1	937.1	937.1	937.8	938.5	937.8	939.2	938.5	939.9	939.9
25°	967.8	969.9	971.2	971.2	974.7	975.4	976.1	978.2	978.2	980.3	981.0
27.5°	1014.4	1015.8	1021.4	1022.8	1023.5	1029.1	1029.8	1032.6	1035.3	1036.0	1036.7
30°	1078.5	1082.0	1086.2	1089.0	1089.0	1096.0	1098.8	1097.4	1105.0	1107.1	1109.9
32.5°	1164.2	1167.0	1171.2	1174.0	1176.8	1180.3	1181.0	1184.5	1190.7	1196.3	1192.8
35°	1272.2	1279.2	1272.2	1279.9	1282.0	1286.9	1285.5	1289.7	1292.4	1294.5	1293.8
37.5°	1429.0	1425.5	1424.1	1421.3	1416.5	1433.2	1424.8	1424.1	1419.9	1431.8	1424.1
40°	1635.2	1637.3	1639.4	1628.3	1622.0	1622.0	1619.9	1612.2	1608.8	1619.2	1617.8
42.5°	1850.5	1852.6	1842.9	1835.9	1819.9	1817.8	1808.0	1805.9	1802.5	1808.0	1802.5
45°	2046.3	2047.7	2026.1	2029.6	2017.0	2019.1	2003.8	2010.1	2001.7	2007.3	2017.7
47.5°	2265.1	2267.9	2249.1	2256.7	2244.2	2236.5	2235.8	2240.0	2230.9	2236.5	2239.3
50°	2463.7	2460.2	2450.4	2452.5	2446.9	2448.3	2440.0	2447.6	2437.2	2448.3	2446.9
52.5°	2639.9	2635.8	2633.7	2640.6	2635.8	2635.8	2630.9	2634.4	2635.8	2652.5	2656.0
55°	2853.8	2857.3	2860.8	2873.3	2878.9	2869.9	2878.9	2896.3	2897.0	2936.7	2958.3
57.5°	3197.3	3221.7	3234.2	3241.9	3274.7	3271.2	3292.1	3333.9	3338.1	3430.0	3483.7
60°	3796.5	3839.7	3880.8	3858.5	3924.7	3944.9	3957.5	4035.5	4059.9	4147.0	4193.7
62.5°	4553.2	4558.0	4622.1	4601.9	4639.6	4630.5	4645.8	4681.4	4713.4	4785.2	4829.1
65°	5081.3	5104.3	5129.4	5103.6	5102.9	5072.2	5052.7	5052.0	5071.5	5086.9	5135.6
67°	5224.8	5247.8	5254.1	5235.3	5208.1	5169.1	5132.9	5114.0	5101.5	5108.5	5139.1
67.5°	5223.4	5245.0	5252.7	5234.6	5197.0	5164.2	5125.9	5104.3	5087.6	5091.0	5116.8
70°	4926.6	4973.3	4998.4	5004.0	4999.1	4941.9	4909.2	4889.7	4875.8	4841.6	4839.5
72.5°	4174.1	4230.6	4250.1	4281.4	4295.4	4211.1	4175.5	4197.1	4148.4	4040.4	4045.2
75°	3064.9	3069.1	3003.6	2991.1	2944.4	2753.5	2696.4	2644.1	2560.5	2430.2	2307.6
77.5°	1597.6	1596.9	1521.7	1483.3	1427.6	1312.6	1307.1	1213.7	1148.2	1029.1	985.9
80°	1135.0	1153.1	1178.2	1190.7	1171.2	1126.6	1065.3	999.1	923.2	848.6	759.4
82.5°	1055.6	1066.7	1079.9	1031.2	1004.0	941.3	894.6	798.5	744.8	659.8	569.9
85°	513.5	547.6	521.2	490.5	480.1	375.5	363.0	303.1	275.2	226.4	211.1
87.5°	32.7	40.4	36.2	32.7	28.6	16.0	21.6	15.3	16.0	11.8	10.5
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3
2.5°	703.0	702.3	701.6	700.9	700.2	700.2	699.5	698.8	698.1	696.7	696.7
5°	716.2	716.2	715.5	714.2	714.2	712.8	710.7	710.0	710.0	708.6	707.2
7.5°	737.8	737.1	735.8	735.1	733.7	732.3	730.9	729.5	728.8	726.7	726.0
10°	770.6	769.2	765.7	764.3	763.6	762.2	760.8	759.4	757.4	756.0	755.3
12.5°	807.5	806.8	804.0	805.4	801.9	800.5	799.2	795.7	797.1	794.3	792.9
15°	844.4	845.1	843.7	843.7	841.0	838.9	837.5	834.7	834.0	832.6	831.2
17.5°	877.2	878.6	876.5	875.1	873.7	872.3	869.5	866.7	866.7	864.0	862.6
20°	907.1	908.5	907.8	906.5	904.4	903.7	902.3	900.2	900.2	898.8	896.7
22.5°	941.3	942.0	942.0	941.3	939.2	939.9	938.5	936.4	937.1	934.3	934.3
25°	982.4	983.8	985.2	985.9	984.5	985.2	983.8	982.4	981.7	982.4	981.7
27.5°	1038.8	1040.2	1044.4	1040.9	1044.4	1045.1	1043.0	1040.2	1042.3	1045.8	1043.7
30°	1113.4	1112.0	1117.6	1118.3	1117.6	1118.3	1116.9	1114.8	1116.2	1122.4	1119.0
32.5°	1197.0	1199.8	1201.2	1202.6	1204.7	1207.4	1205.4	1203.3	1206.7	1204.7	1209.5
35°	1298.0	1304.3	1306.4	1304.3	1305.7	1310.6	1309.9	1310.6	1317.5	1310.6	1319.6
37.5°	1425.5	1431.8	1436.7	1433.9	1437.4	1437.4	1442.9	1458.3	1448.5	1461.1	1470.8
40°	1610.9	1620.6	1621.3	1620.6	1624.1	1628.3	1633.8	1650.6	1639.4	1652.7	1661.7
42.5°	1801.8	1813.6	1817.8	1810.8	1818.5	1827.5	1828.2	1842.9	1843.6	1845.7	1850.5
45°	2017.0	2027.5	2035.9	2032.4	2033.1	2044.9	2042.1	2056.1	2045.6	2045.6	2048.4
47.5°	2246.3	2256.0	2261.6	2267.2	2260.2	2270.7	2275.5	2272.8	2260.2	2257.4	2240.7
50°	2455.3	2463.7	2472.0	2487.3	2486.6	2491.5	2495.0	2482.5	2479.7	2464.4	2445.5
52.5°	2676.9	2698.5	2717.3	2749.3	2754.2	2770.9	2764.6	2743.7	2740.3	2715.2	2690.1
55°	2985.5	3047.5	3074.7	3124.2	3157.6	3156.9	3143.0	3139.5	3113.0	3062.8	3032.9
57.5°	3522.7	3619.5	3666.2	3730.3	3740.8	3734.5	3716.4	3684.3	3638.4	3554.0	3499.7
60°	4298.2	4358.1	4412.4	4427.8	4435.4	4423.6	4360.2	4289.1	4199.2	4082.9	3986.0
62.5°	4884.1	4945.4	4985.8	4979.6	4931.5	4870.9	4778.2	4659.1	4533.0	4402.7	4257.8
65°	5182.3	5208.1	5201.8	5153.1	5070.8	4964.9	4829.8	4682.8	4534.4	4380.4	4229.9
67°	5166.3	5167.0	5124.5	5029.7	4924.5	4791.5	4626.3	4466.1	4291.9	4130.2	3951.2
67.5°	5137.7	5134.9	5075.7	4971.9	4858.3	4721.1	4549.7	4383.9	4203.4	4040.4	3855.0
70°	4814.4	4775.4	4641.7	4475.8	4317.7	4132.3	3952.6	3762.4	3558.9	3418.9	3205.7
72.5°	3956.1	3824.4	3593.8	3420.3	3251.0	3008.5	2896.3	2660.1	2517.3	2428.1	2267.2
75°	2290.9	2180.8	2002.4	1840.1	1757.9	1614.3	1546.1	1372.6	1336.3	1334.9	1279.2
77.5°	874.4	762.9	648.0	521.9	443.8	352.5	310.7	278.0	252.9	270.3	245.3
80°	655.6	539.3	421.5	306.6	218.8	161.6	138.7	128.2	121.9	117.1	113.6
82.5°	488.4	385.3	298.9	195.1	136.6	103.1	89.2	83.6	80.8	75.9	71.8
85°	165.1	132.4	104.5	72.5	57.1	46.7	43.2	41.8	39.7	36.2	34.1
87.5°	9.1	8.4	9.1	7.0	8.4	7.0	7.7	7.7	7.7	7.0	7.0
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3
2.5°	696.0	696.0	696.0	694.6	692.6	688.4	684.2	680.7	677.2	675.1	673.7
5°	706.5	705.1	704.4	703.7	698.8	690.5	682.8	675.8	668.9	663.3	661.2
7.5°	725.3	722.5	721.8	719.7	713.5	700.9	689.8	678.6	668.9	661.2	657.7
10°	753.9	753.9	749.7	746.9	739.9	723.2	707.2	692.6	679.3	671.0	668.9
12.5°	790.1	790.1	786.6	784.5	776.2	754.6	735.1	717.6	705.1	696.7	696.0
15°	827.7	827.0	824.2	821.5	812.4	789.4	769.9	754.6	744.1	734.4	731.6
17.5°	861.2	861.2	857.7	854.9	845.8	826.3	808.9	797.8	785.9	765.7	750.4
20°	894.6	895.3	892.5	889.7	882.1	865.3	857.7	846.5	820.1	776.2	739.9
22.5°	931.5	934.3	930.8	928.1	921.8	914.8	912.0	885.6	829.8	759.4	706.5
25°	978.9	983.8	979.6	978.2	974.7	976.8	968.5	907.1	815.9	723.2	657.0
27.5°	1043.7	1043.7	1044.4	1044.4	1043.0	1050.7	1020.0	907.8	785.2	676.5	597.8
30°	1119.7	1123.8	1122.4	1122.4	1128.0	1132.9	1048.6	892.5	746.2	618.7	525.3
32.5°	1210.9	1214.4	1215.8	1209.5	1231.8	1206.7	1059.0	864.6	698.1	546.9	438.9
35°	1321.0	1325.9	1329.4	1330.1	1344.7	1270.8	1053.5	823.5	629.2	457.1	344.2
37.5°	1464.5	1474.3	1482.0	1485.4	1486.1	1325.2	1038.1	769.2	539.3	356.7	256.4
40°	1655.4	1665.9	1663.8	1670.8	1631.1	1357.2	1003.3	690.5	427.8	262.0	197.9
42.5°	1839.4	1840.8	1843.6	1837.3	1756.5	1374.0	954.5	594.3	320.5	195.8	169.3
45°	2044.9	2033.1	2019.8	2010.1	1872.1	1380.2	887.6	477.3	226.4	164.4	156.8
47.5°	2237.9	2221.9	2194.7	2166.8	1975.2	1370.5	801.9	357.4	172.1	150.5	148.4
50°	2427.4	2397.5	2359.1	2327.1	2074.2	1355.8	707.2	257.8	150.5	143.5	141.4
52.5°	2662.2	2612.1	2561.9	2520.1	2203.1	1332.9	607.6	195.8	141.4	138.0	135.2
55°	2984.1	2914.4	2833.6	2775.1	2378.0	1298.0	503.0	165.8	137.3	134.5	130.3
57.5°	3430.0	3325.5	3234.2	3138.8	2616.9	1262.5	413.2	154.0	136.6	132.4	126.8
60°	3885.7	3760.3	3643.9	3507.4	2860.8	1227.0	350.5	152.6	138.7	132.4	124.0
62.5°	4122.6	3993.0	3852.9	3714.3	2966.0	1143.3	307.3	154.7	143.5	134.5	124.0
65°	4068.2	3910.1	3767.9	3626.5	2844.1	985.2	259.9	157.5	153.3	142.8	126.1
67°	3795.1	3630.0	3493.4	3358.3	2572.3	824.9	223.0	160.2	163.7	152.6	130.3
67.5°	3699.0	3533.8	3399.4	3267.7	2492.2	791.5	213.9	161.6	165.8	155.4	131.7
70°	3067.0	2945.8	2803.0	2701.2	2017.7	586.0	175.6	164.4	178.4	171.4	138.0
72.5°	2207.3	2091.6	1984.3	1927.9	1486.1	409.7	147.7	161.6	186.0	180.5	140.7
75°	1173.3	1166.3	1127.3	1155.2	919.7	267.5	130.3	151.2	177.7	165.1	131.0
77.5°	236.9	243.9	286.4	282.2	296.8	149.1	111.5	129.6	137.3	121.2	106.6
80°	110.1	108.0	105.9	107.3	105.2	95.5	90.6	101.7	95.5	78.0	71.1
82.5°	68.3	66.9	64.8	64.1	71.1	75.9	79.4	80.1	63.4	54.3	52.3
85°	32.7	32.7	32.0	33.4	41.8	62.0	66.9	59.2	42.5	39.0	36.9
87.5°	6.3	6.3	7.0	6.3	8.4	14.6	16.7	19.5	16.0	16.7	18.8
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):

	165°	175°	180°
0°	693.3	693.3	693.3
2.5°	672.3	671.0	671.0
5°	658.4	657.7	657.7
7.5°	654.9	655.6	654.9
10°	668.2	667.5	670.3
12.5°	697.4	699.5	698.8
15°	728.1	729.5	729.5
17.5°	737.1	732.3	731.6
20°	713.5	704.4	702.3
22.5°	668.9	652.1	652.8
25°	612.4	592.2	593.6
27.5°	546.9	525.3	524.6
30°	468.2	444.5	432.7
32.5°	373.5	344.9	344.9
35°	280.8	257.8	249.4
37.5°	213.2	200.0	195.8
40°	177.7	171.4	170.0
42.5°	161.6	159.6	158.9
45°	153.3	151.9	151.2
47.5°	145.6	144.9	144.2
50°	140.0	139.3	138.7
52.5°	135.2	133.8	133.1
55°	128.2	128.2	128.2
57.5°	124.0	124.0	123.3
60°	119.8	119.1	119.1
62.5°	116.4	115.0	115.7
65°	114.3	112.2	112.2
67°	112.9	108.7	108.7
67.5°	112.9	107.3	107.3
70°	110.8	101.7	100.3
72.5°	108.7	95.5	93.4
75°	103.1	90.6	88.5
77.5°	88.5	80.8	79.4
80°	68.3	59.2	60.6
82.5°	49.5	42.5	41.8
85°	35.5	30.7	30.7
87.5°	18.8	16.0	16.7
90°	0.0	0.0	0.0

(END OF REPORT)