

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: P151069

Luminaire Tested: **VWM-E02-LED-E1-SL3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151069
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-E02-LED-E1-SL3-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5546.2 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

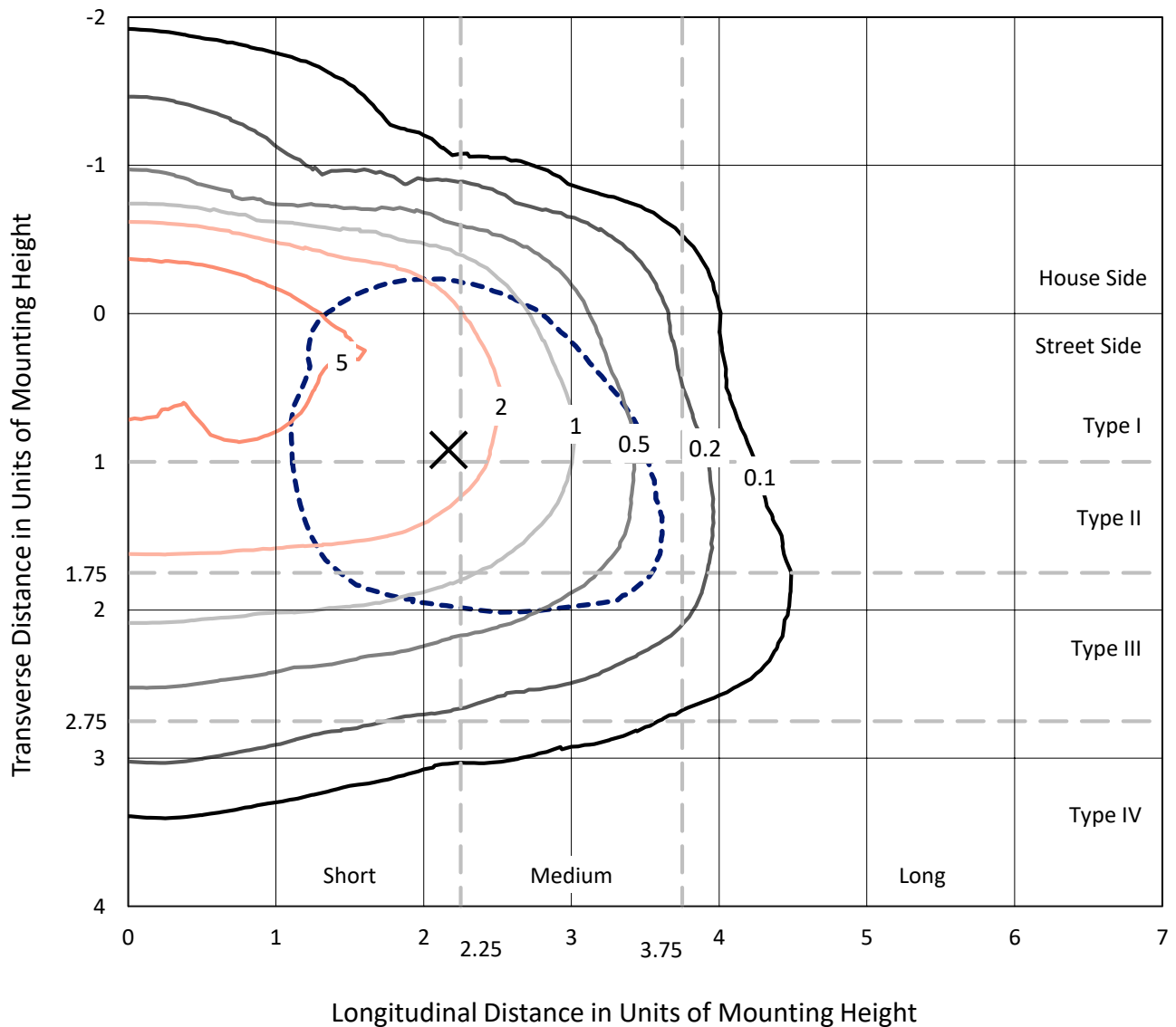
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

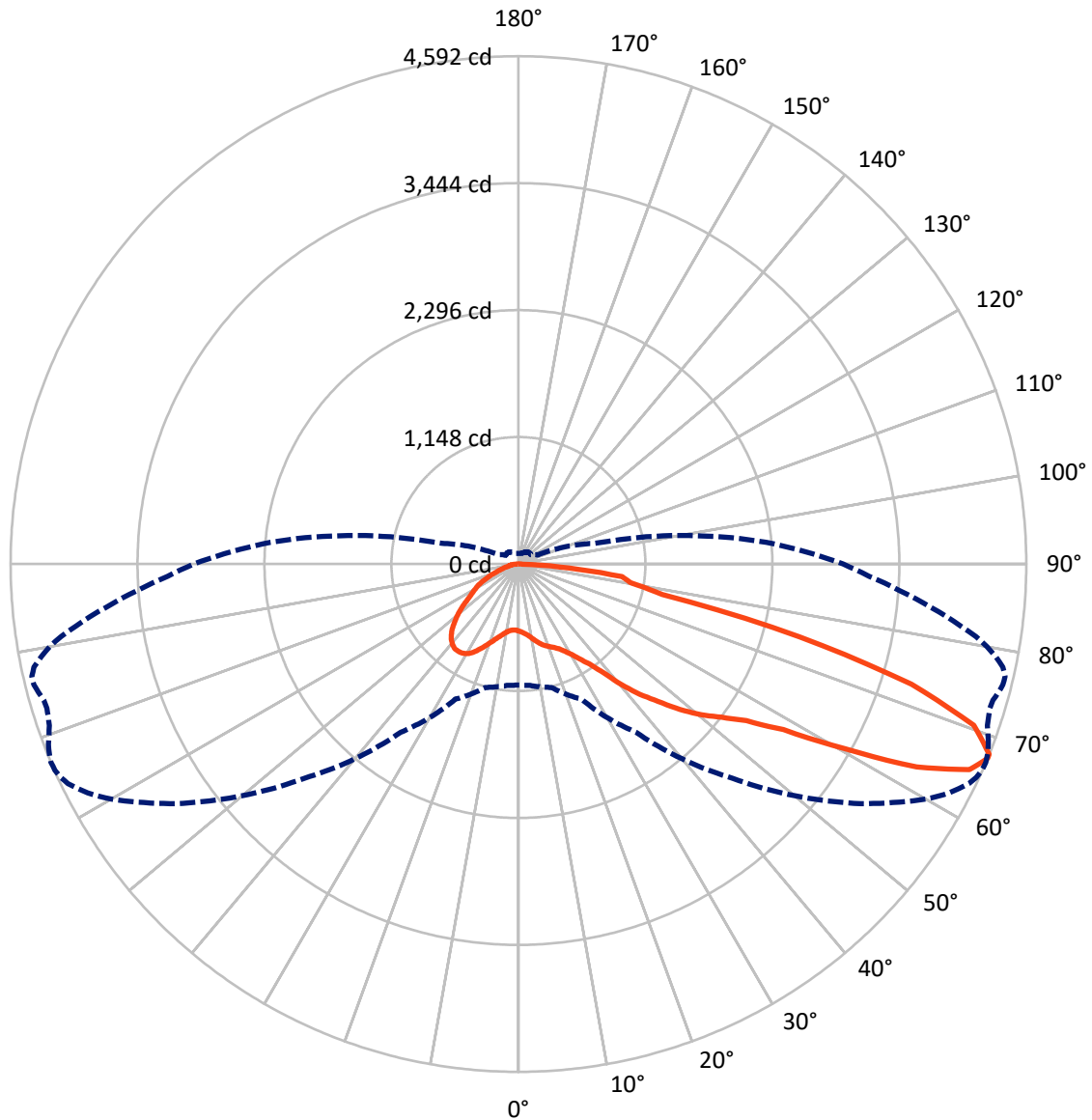
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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	1279.8	0.0	1279.8
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4266.3	0.0	4266.3
	% Fixture	76.9	0.0	76.9
Total	Lumens	5546.2	0.0	5546.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.1
10°-20°	206.8	3.7
20°-30°	365.2	6.6
30°-40°	524.2	9.5
40°-50°	796.2	14.4
50°-60°	1172.2	21.1
60°-70°	1557.8	28.1
70°-80°	762.1	13.7
80°-90°	101.2	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°	5546.2	100.0
0°-180°	5546.2	100.0



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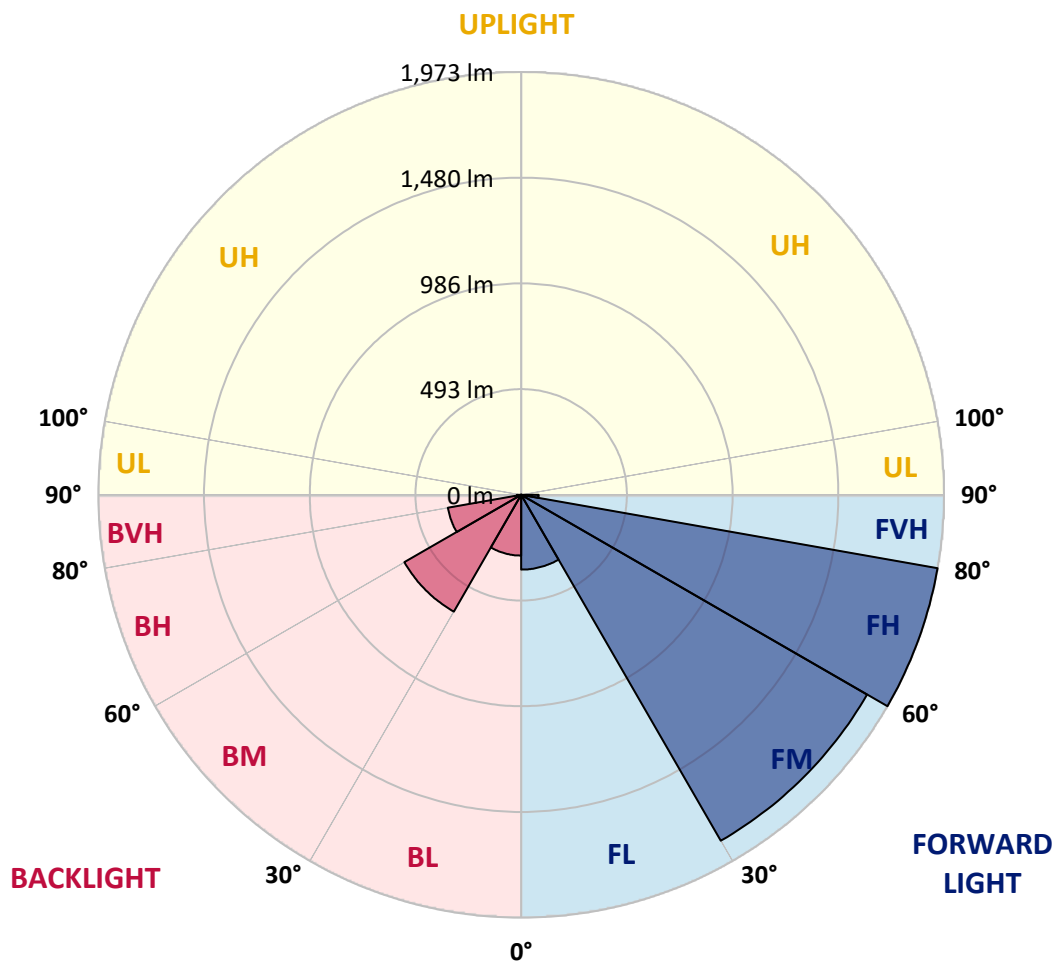
CATALOG NUMBER: VWM-E02-LED-E1-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.9	6.3			
FM	(30°-60°)	1863.4	33.6			
FH	(60°-80°)	1972.7	35.6			G2/5000
FVH	(80°-90°)	81.3	1.5			G1/100
BL	(0°-30°)	283.5	5.1	B1/500		
BM	(30°-60°)	629.2	11.3	B1/1000		
BH	(60°-80°)	347.3	6.3	B1/500		G1/500
BVH	(80°-90°)	19.9	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°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9
2.5°	634.5	635.1	633.9	633.3	629.6	625.9	623.5	620.5	620.5	620.5	619.3
5°	670.4	668.0	669.8	665.5	658.2	651.5	644.8	639.3	638.1	638.1	635.7
7.5°	713.6	710.6	709.4	703.3	692.3	682.6	669.2	663.7	660.7	659.4	658.2
10°	766.0	766.0	758.1	747.7	733.1	716.1	701.5	691.7	691.1	691.1	685.6
12.5°	819.6	820.8	810.4	800.1	776.3	753.8	736.8	725.8	725.2	722.8	719.7
15°	868.9	865.9	859.2	843.9	817.8	791.0	769.6	758.7	756.3	753.8	752.0
17.5°	909.7	906.7	898.1	878.6	851.2	819.6	793.4	781.8	780.6	779.4	777.0
20°	935.3	932.8	920.7	898.1	869.5	837.2	809.2	801.3	798.9	798.9	797.7
22.5°	949.9	946.2	928.6	898.7	870.7	847.0	823.8	819.0	817.1	817.8	817.8
25°	957.2	954.1	929.2	886.6	859.8	853.1	843.3	840.3	840.9	841.5	842.7
27.5°	958.4	954.1	924.9	870.7	845.8	864.6	871.3	876.2	876.2	878.6	882.9
30°	949.3	944.4	916.4	858.5	839.7	887.8	914.6	927.4	932.2	931.0	940.8
32.5°	933.4	930.4	907.9	858.5	856.7	933.4	980.9	999.2	1001.6	1002.9	1013.8
35°	928.0	927.4	917.6	887.8	909.7	1013.8	1086.3	1100.3	1103.3	1103.3	1111.2
37.5°	926.7	929.8	940.8	942.6	1002.9	1133.2	1228.2	1249.5	1249.5	1255.6	1255.6
40°	926.7	933.4	974.8	1024.2	1116.7	1288.4	1420.0	1444.3	1444.3	1451.0	1447.4
42.5°	962.7	972.4	1040.6	1134.4	1260.4	1448.6	1599.6	1627.0	1628.8	1627.0	1632.5
45°	1033.3	1041.8	1124.6	1259.2	1408.4	1620.3	1771.3	1804.2	1797.5	1801.7	1803.6
47.5°	1127.1	1140.5	1234.8	1395.6	1552.7	1779.2	1963.7	1993.5	1991.1	1992.9	1985.0
50°	1226.9	1240.9	1346.3	1530.8	1696.4	1907.1	2118.4	2162.8	2158.6	2161.6	2165.9
52.5°	1315.2	1323.7	1425.4	1632.5	1805.4	2026.4	2237.1	2292.5	2302.3	2303.5	2306.5
55°	1367.6	1377.9	1471.1	1683.0	1884.5	2143.3	2372.9	2456.9	2475.8	2480.7	2494.1
57.5°	1385.9	1396.8	1481.5	1690.3	1927.8	2252.9	2562.3	2710.2	2726.0	2752.2	2794.9
60°	1385.2	1396.8	1470.5	1673.9	1971.6	2388.7	2857.0	3104.8	3185.2	3211.9	3272.8
62.5°	1328.6	1342.0	1416.9	1623.9	2027.6	2562.3	3295.4	3676.5	3780.1	3828.8	3894.5
65°	1204.4	1214.1	1284.2	1497.3	2011.8	2733.4	3661.9	4137.5	4231.9	4303.1	4420.6
67°	1094.2	1100.3	1155.1	1347.5	1857.1	2739.4	3777.6	4252.0	4334.2	4409.7	4530.8
67.5°	1066.2	1079.0	1121.6	1301.8	1799.3	2704.7	3769.7	4234.3	4318.3	4396.9	4524.7
70°	867.7	885.9	907.3	1028.4	1414.5	2275.5	3490.2	3928.6	4002.3	4075.4	4253.8
72.5°	535.2	568.1	572.4	649.1	920.7	1572.8	2824.1	3313.0	3368.4	3420.8	3603.5
75°	315.4	320.3	335.5	397.6	540.1	940.1	1894.9	2461.2	2512.3	2537.9	2681.0
77.5°	176.0	180.8	193.6	247.2	415.3	633.3	1103.3	1446.1	1477.2	1509.5	1486.3
80°	73.1	79.8	85.9	99.9	194.2	499.9	758.7	919.4	939.5	958.4	982.2
82.5°	35.3	37.8	46.3	53.0	70.6	205.2	594.9	797.1	820.8	848.2	903.6
85°	16.4	18.3	25.6	30.4	34.1	51.8	199.1	387.9	420.8	426.8	437.8
87.5°	1.2	1.2	3.0	4.3	6.1	6.7	20.7	29.2	32.9	29.8	37.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9
2.5°	618.6	618.0	616.8	616.8	616.2	616.2	616.2	615.0	615.0	615.0	614.4
5°	635.1	634.5	632.6	632.6	631.4	631.4	629.6	629.0	627.8	627.8	627.2
7.5°	656.4	655.8	653.3	653.3	651.5	650.9	649.7	647.9	647.9	646.7	645.4
10°	685.6	683.8	683.2	680.1	680.8	679.5	678.3	676.5	675.3	674.1	672.8
12.5°	718.5	718.5	715.5	713.6	714.8	713.6	711.2	710.6	708.8	708.8	706.9
15°	749.6	749.6	748.3	745.9	746.5	744.7	744.1	742.9	740.4	741.0	740.4
17.5°	776.3	776.3	774.5	773.3	773.3	771.5	772.1	770.9	769.6	769.0	767.2
20°	797.7	797.7	796.4	795.2	795.8	795.8	794.0	794.0	794.0	792.8	792.8
22.5°	818.4	819.0	819.0	819.0	819.6	820.2	819.6	820.8	820.2	821.4	821.4
25°	845.8	847.6	848.8	848.8	851.9	852.5	853.1	854.9	854.9	856.7	857.3
27.5°	886.6	887.8	892.6	893.9	894.5	899.3	900.0	902.4	904.8	905.4	906.0
30°	942.6	945.6	949.3	951.7	951.7	957.8	960.2	959.0	965.7	967.5	970.0
32.5°	1017.5	1019.9	1023.6	1026.0	1028.4	1031.5	1032.1	1035.1	1040.6	1045.5	1042.4
35°	1111.9	1117.9	1111.9	1118.5	1120.4	1124.6	1123.4	1127.1	1129.5	1131.3	1130.7
37.5°	1248.9	1245.8	1244.6	1242.2	1237.9	1252.5	1245.2	1244.6	1240.9	1251.3	1244.6
40°	1429.1	1430.9	1432.7	1423.0	1417.5	1417.5	1415.7	1409.0	1406.0	1415.1	1413.9
42.5°	1617.2	1619.1	1610.5	1604.5	1590.4	1588.6	1580.1	1578.3	1575.2	1580.1	1575.2
45°	1788.3	1789.6	1770.7	1773.7	1762.8	1764.6	1751.2	1756.7	1749.4	1754.2	1763.4
47.5°	1979.5	1982.0	1965.5	1972.2	1961.3	1954.6	1954.0	1957.6	1949.7	1954.6	1957.0
50°	2153.1	2150.0	2141.5	2143.3	2138.5	2139.7	2132.4	2139.1	2129.9	2139.7	2138.5
52.5°	2307.1	2303.5	2301.6	2307.7	2303.5	2303.5	2299.2	2302.3	2303.5	2318.1	2321.1
55°	2494.1	2497.1	2500.1	2511.1	2516.0	2508.1	2516.0	2531.2	2531.8	2566.5	2585.4
57.5°	2794.2	2815.6	2826.5	2833.2	2861.8	2858.8	2877.1	2913.6	2917.2	2997.6	3044.5
60°	3317.9	3355.6	3391.6	3372.1	3429.9	3447.6	3458.6	3526.8	3548.1	3624.2	3665.0
62.5°	3979.2	3983.4	4039.4	4021.8	4054.7	4046.8	4060.1	4091.2	4119.2	4181.9	4220.3
65°	4440.7	4460.8	4482.7	4460.2	4459.6	4432.8	4415.7	4415.1	4432.2	4445.6	4488.2
67°	4566.1	4586.2	4591.7	4575.3	4551.5	4517.4	4485.8	4469.3	4458.4	4464.5	4491.2
67.5°	4564.9	4583.8	4590.5	4574.7	4541.8	4513.2	4479.7	4460.8	4446.2	4449.2	4471.8
70°	4305.5	4346.3	4368.3	4373.1	4368.9	4318.9	4290.3	4273.3	4261.1	4231.2	4229.4
72.5°	3647.9	3697.2	3714.3	3741.7	3753.9	3680.2	3649.1	3668.0	3625.4	3531.0	3535.3
75°	2678.6	2682.2	2625.0	2614.0	2573.2	2406.4	2356.4	2310.8	2237.7	2123.8	2016.7
77.5°	1396.2	1395.6	1329.8	1296.3	1247.6	1147.2	1142.3	1060.7	1003.5	899.3	861.6
80°	991.9	1007.7	1029.7	1040.6	1023.6	984.6	931.0	873.2	806.8	741.6	663.7
82.5°	922.5	932.2	943.8	901.2	877.4	822.6	781.8	697.8	650.9	576.6	498.1
85°	448.8	478.6	455.5	428.7	419.5	328.2	317.2	264.9	240.5	197.9	184.5
87.5°	28.6	35.3	31.7	28.6	25.0	14.0	18.9	13.4	14.0	10.4	9.1
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°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9
2.5°	614.4	613.8	613.2	612.6	611.9	611.9	611.3	610.7	610.1	608.9	608.9
5°	625.9	625.9	625.3	624.1	624.1	622.9	621.1	620.5	620.5	619.3	618.0
7.5°	644.8	644.2	643.0	642.4	641.2	640.0	638.7	637.5	636.9	635.1	634.5
10°	673.4	672.2	669.2	668.0	667.4	666.1	664.9	663.7	661.9	660.7	660.0
12.5°	705.7	705.1	702.7	703.9	700.8	699.6	698.4	695.4	696.6	694.1	692.9
15°	738.0	738.6	737.4	737.4	734.9	733.1	731.9	729.5	728.9	727.6	726.4
17.5°	766.6	767.8	766.0	764.8	763.6	762.3	759.9	757.5	757.5	755.0	753.8
20°	792.8	794.0	793.4	792.2	790.4	789.7	788.5	786.7	786.7	785.5	783.7
22.5°	822.6	823.2	823.2	822.6	820.8	821.4	820.2	818.4	819.0	816.5	816.5
25°	858.5	859.8	861.0	861.6	860.4	861.0	859.8	858.5	857.9	858.5	857.9
27.5°	907.9	909.1	912.7	909.7	912.7	913.4	911.5	909.1	910.9	914.0	912.1
30°	973.0	971.8	976.7	977.3	976.7	977.3	976.1	974.2	975.5	980.9	977.9
32.5°	1046.1	1048.5	1049.7	1051.0	1052.8	1055.2	1053.4	1051.6	1054.6	1052.8	1057.1
35°	1134.4	1139.9	1141.7	1139.9	1141.1	1145.3	1144.7	1145.3	1151.4	1145.3	1153.3
37.5°	1245.8	1251.3	1255.6	1253.1	1256.2	1256.2	1261.0	1274.4	1265.9	1276.9	1285.4
40°	1407.8	1416.3	1416.9	1416.3	1419.3	1423.0	1427.9	1442.5	1432.7	1444.3	1452.2
42.5°	1574.6	1585.0	1588.6	1582.5	1589.2	1597.1	1597.8	1610.5	1611.2	1613.0	1617.2
45°	1762.8	1771.9	1779.2	1776.2	1776.8	1787.1	1784.7	1796.9	1787.7	1787.7	1790.2
47.5°	1963.1	1971.6	1976.5	1981.4	1975.3	1984.4	1988.7	1986.2	1975.3	1972.8	1958.2
50°	2145.8	2153.1	2160.4	2173.8	2173.2	2177.4	2180.5	2169.5	2167.1	2153.7	2137.2
52.5°	2339.4	2358.3	2374.7	2402.7	2407.0	2421.6	2416.1	2397.8	2394.8	2372.9	2351.0
55°	2609.1	2663.3	2687.1	2730.3	2759.5	2758.9	2746.7	2743.7	2720.6	2676.7	2650.5
57.5°	3078.6	3163.2	3204.0	3260.1	3269.2	3263.7	3247.9	3219.9	3179.7	3106.0	3058.5
60°	3756.3	3808.7	3856.2	3869.6	3876.3	3865.9	3810.5	3748.4	3669.8	3568.2	3483.5
62.5°	4268.4	4322.0	4357.3	4351.8	4309.8	4256.8	4175.8	4071.7	3961.5	3847.6	3721.0
65°	4529.0	4551.5	4546.0	4503.4	4431.6	4339.0	4220.9	4092.4	3962.7	3828.2	3696.6
67°	4515.0	4515.6	4478.5	4395.7	4303.7	4187.4	4043.1	3903.1	3750.8	3609.6	3453.1
67.5°	4490.0	4487.6	4435.8	4345.1	4245.9	4125.9	3976.1	3831.2	3673.5	3531.0	3369.0
70°	4207.5	4173.4	4056.5	3911.6	3773.4	3611.4	3454.3	3288.1	3110.3	2987.9	2801.5
72.5°	3457.3	3342.3	3140.7	2989.1	2841.1	2629.2	2531.2	2324.8	2200.0	2122.0	1981.4
75°	2002.1	1905.9	1750.0	1608.1	1536.3	1410.8	1351.1	1199.5	1167.9	1166.7	1117.9
77.5°	764.2	666.7	566.3	456.1	387.9	308.1	271.6	243.0	221.0	236.3	214.3
80°	573.0	471.3	368.4	267.9	191.2	141.3	121.2	112.0	106.6	102.3	99.3
82.5°	426.8	336.7	261.2	170.5	119.3	90.1	77.9	73.1	70.6	66.4	62.7
85°	144.3	115.7	91.3	63.3	49.9	40.8	37.8	36.5	34.7	31.7	29.8
87.5°	7.9	7.3	7.9	6.1	7.3	6.1	6.7	6.7	6.7	6.1	6.1
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°	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9	605.9
2.5°	608.3	608.3	608.3	607.1	605.2	601.6	597.9	594.9	591.9	590.0	588.8
5°	617.4	616.2	615.6	615.0	610.7	603.4	596.7	590.6	584.5	579.7	577.8
7.5°	633.9	631.4	630.8	629.0	623.5	612.6	602.8	593.1	584.5	577.8	574.8
10°	658.8	658.8	655.2	652.7	646.7	632.0	618.0	605.2	593.7	586.4	584.5
12.5°	690.5	690.5	687.4	685.6	678.3	659.4	642.4	627.2	616.2	608.9	608.3
15°	723.4	722.8	720.3	717.9	710.0	689.9	672.8	659.4	650.3	641.8	639.3
17.5°	752.6	752.6	749.6	747.1	739.2	722.2	706.9	697.2	686.8	669.2	655.8
20°	781.8	782.4	780.0	777.6	770.9	756.3	749.6	739.8	716.7	678.3	646.7
22.5°	814.1	816.5	813.5	811.1	805.6	799.5	797.1	773.9	725.2	663.7	617.4
25°	855.5	859.8	856.1	854.9	851.9	853.7	846.4	792.8	713.0	632.0	574.2
27.5°	912.1	912.1	912.7	912.7	911.5	918.2	891.4	793.4	686.2	591.2	522.4
30°	978.5	982.2	980.9	980.9	985.8	990.1	916.4	780.0	652.1	540.7	459.1
32.5°	1058.3	1061.3	1062.5	1057.1	1076.5	1054.6	925.5	755.6	610.1	478.0	383.6
35°	1154.5	1158.7	1161.8	1162.4	1175.2	1110.6	920.7	719.7	549.8	399.4	300.8
37.5°	1279.9	1288.4	1295.1	1298.2	1298.8	1158.1	907.3	672.2	471.3	311.8	224.1
40°	1446.7	1455.9	1454.1	1460.1	1425.4	1186.1	876.8	603.4	373.9	228.9	172.9
42.5°	1607.5	1608.7	1611.2	1605.7	1535.0	1200.8	834.2	519.4	280.1	171.1	148.0
45°	1787.1	1776.8	1765.2	1756.7	1636.1	1206.2	775.7	417.1	197.9	143.7	137.0
47.5°	1955.8	1941.8	1918.0	1893.7	1726.2	1197.7	700.8	312.4	150.4	131.5	129.7
50°	2121.4	2095.2	2061.7	2033.7	1812.7	1184.9	618.0	225.3	131.5	125.4	123.6
52.5°	2326.6	2282.8	2238.9	2202.4	1925.3	1164.8	531.0	171.1	123.6	120.6	118.1
55°	2607.9	2547.0	2476.4	2425.2	2078.2	1134.4	439.6	144.9	120.0	117.5	113.9
57.5°	2997.6	2906.3	2826.5	2743.1	2287.0	1103.3	361.1	134.6	119.3	115.7	110.8
60°	3395.8	3286.2	3184.5	3065.2	2500.1	1072.3	306.3	133.3	121.2	115.7	108.4
62.5°	3602.9	3489.6	3367.2	3246.0	2592.1	999.2	268.5	135.2	125.4	117.5	108.4
65°	3555.4	3417.1	3292.9	3169.3	2485.5	861.0	227.1	137.6	134.0	124.8	110.2
67°	3316.7	3172.4	3053.0	2934.9	2248.1	720.9	194.8	140.0	143.1	133.3	113.9
67.5°	3232.7	3088.3	2970.8	2855.7	2178.0	691.7	186.9	141.3	144.9	135.8	115.1
70°	2680.4	2574.4	2449.6	2360.7	1763.4	512.1	153.4	143.7	155.9	149.8	120.6
72.5°	1929.0	1827.9	1734.1	1684.8	1298.8	358.0	129.1	141.3	162.6	157.7	123.0
75°	1025.4	1019.3	985.2	1009.6	803.7	233.8	113.9	132.1	155.3	144.3	114.5
77.5°	207.0	213.1	250.3	246.6	259.4	130.3	97.4	113.3	120.0	105.9	93.2
80°	96.2	94.4	92.6	93.8	91.9	83.4	79.2	88.9	83.4	68.2	62.1
82.5°	59.7	58.5	56.6	56.0	62.1	66.4	69.4	70.0	55.4	47.5	45.7
85°	28.6	28.6	28.0	29.2	36.5	54.2	58.5	51.8	37.1	34.1	32.3
87.5°	5.5	5.5	6.1	5.5	7.3	12.8	14.6	17.0	14.0	14.6	16.4
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):

	165°	175°	180°
0°	605.9	605.9	605.9
2.5°	587.6	586.4	586.4
5°	575.4	574.8	574.8
7.5°	572.4	573.0	572.4
10°	583.9	583.3	585.8
12.5°	609.5	611.3	610.7
15°	636.3	637.5	637.5
17.5°	644.2	640.0	639.3
20°	623.5	615.6	613.8
22.5°	584.5	569.9	570.5
25°	535.2	517.6	518.8
27.5°	478.0	459.1	458.5
30°	409.2	388.5	378.1
32.5°	326.4	301.4	301.4
35°	245.4	225.3	218.0
37.5°	186.3	174.8	171.1
40°	155.3	149.8	148.6
42.5°	141.3	139.4	138.8
45°	134.0	132.7	132.1
47.5°	127.3	126.7	126.0
50°	122.4	121.8	121.2
52.5°	118.1	116.9	116.3
55°	112.0	112.0	112.0
57.5°	108.4	108.4	107.8
60°	104.7	104.1	104.1
62.5°	101.7	100.5	101.1
65°	99.9	98.0	98.0
67°	98.6	95.0	95.0
67.5°	98.6	93.8	93.8
70°	96.8	88.9	87.7
72.5°	95.0	83.4	81.6
75°	90.1	79.2	77.3
77.5°	77.3	70.6	69.4
80°	59.7	51.8	53.0
82.5°	43.2	37.1	36.5
85°	31.1	26.8	26.8
87.5°	16.4	14.0	14.6
90°	0.0	0.0	0.0

(END OF REPORT)