

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: P149944

Luminaire Tested: **VWM-F03-LED-E1-SL2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149944
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
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-SL2-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6910.6 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - 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

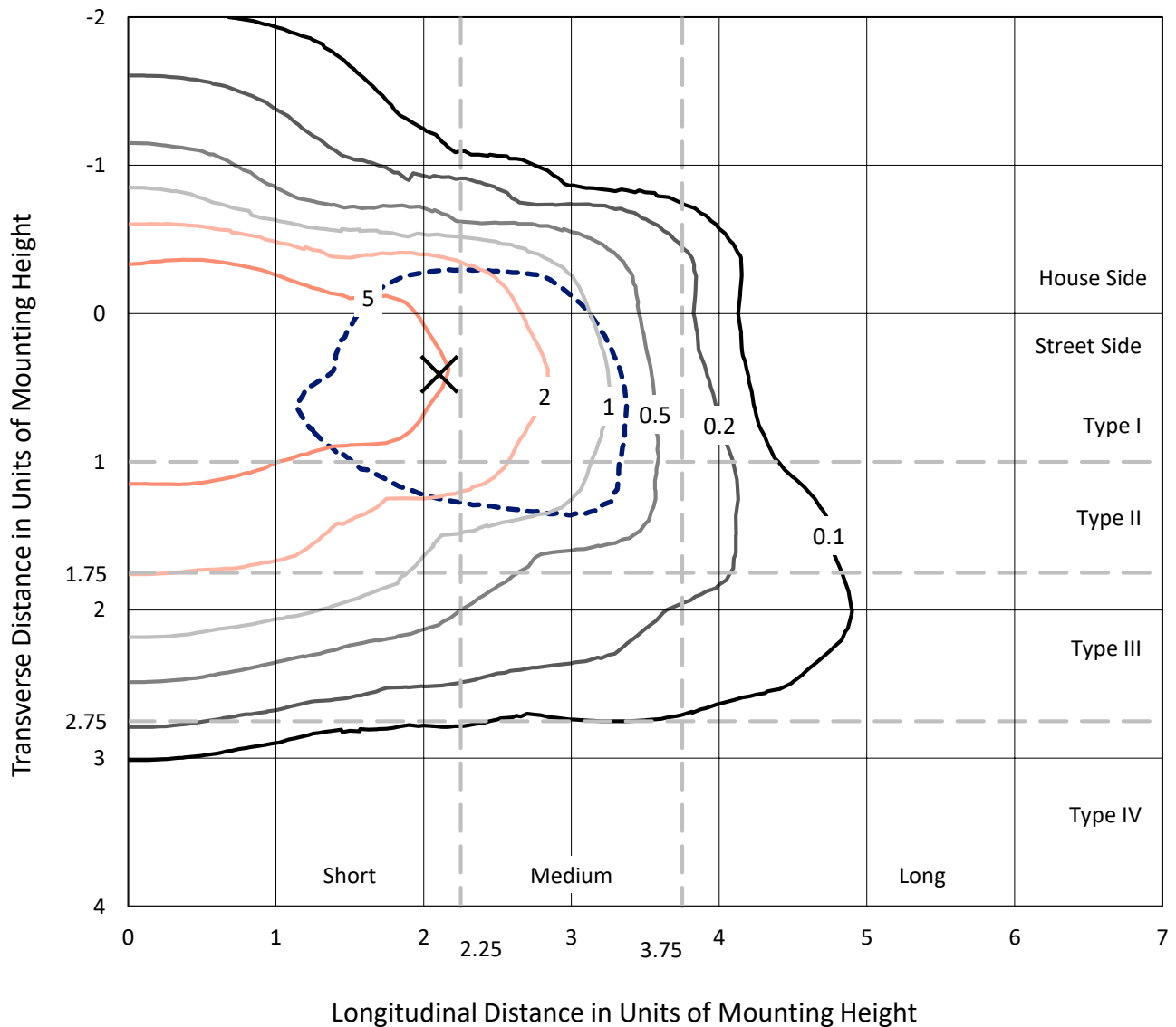


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Iso-Footcandle Lines of Horizontal Illumination

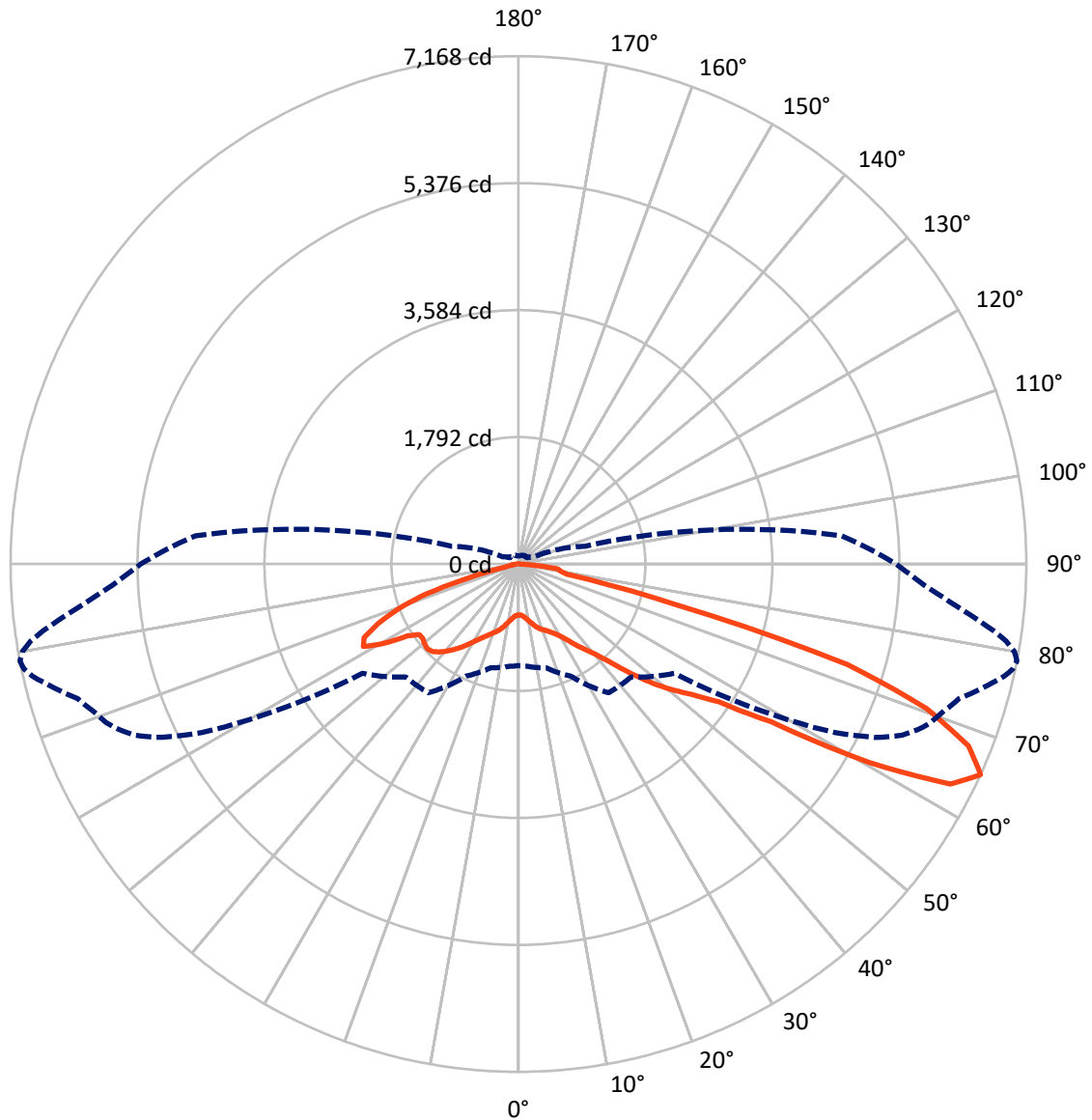
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.6	0.0	1633.6
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	5276.9	0.0	5276.9
	% Fixture	76.4	0.0	76.4
Total	Lumens	6910.6	0.0	6910.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	1.0
10°-20°	233.8	3.4
20°-30°	403.8	5.8
30°-40°	668.5	9.7
40°-50°	1133.7	16.4
50°-60°	1506.3	21.8
60°-70°	1945.8	28.2
70°-80°	816.1	11.8
80°-90°	131.1	1.9
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°	6910.6	100.0
0°-180°	6910.6	100.0



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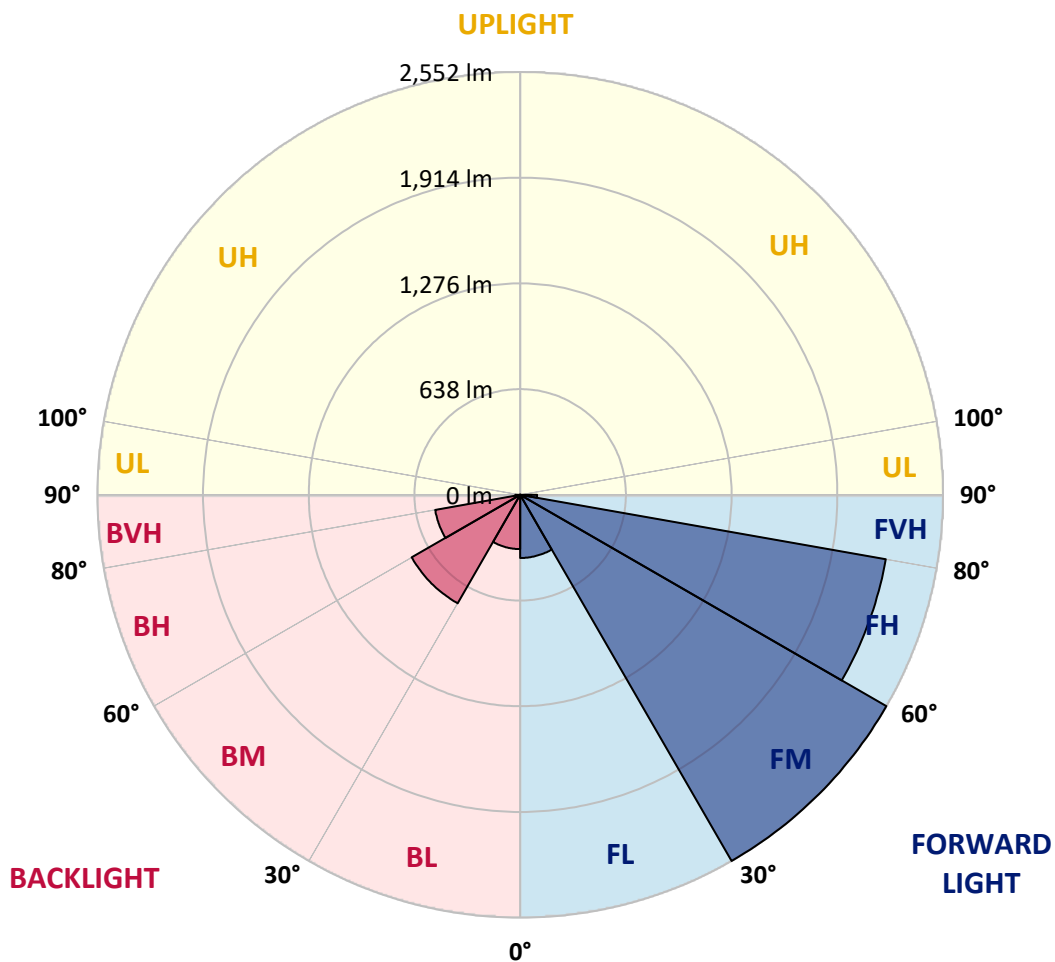
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	381.3	5.5			
FM	(30°-60°)	2552.3	36.9			
FH	(60°-80°)	2240.8	32.4			G2/5000
FVH	(80°-90°)	102.5	1.5			G2/225
BL	(0°-30°)	327.8	4.7	B1/500		
BM	(30°-60°)	756.2	10.9	B1/1000		
BH	(60°-80°)	521.0	7.5	B2/1000		G2/1000
BVH	(80°-90°)	28.6	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3
2.5°	717.0	719.3	717.8	719.3	720.8	721.6	723.1	722.3	722.3	723.1	721.6
5°	717.0	717.0	719.3	723.1	724.6	729.1	734.4	733.6	734.4	733.6	735.1
7.5°	732.1	731.4	733.6	738.2	739.7	746.5	755.5	757.0	758.5	758.5	760.8
10°	758.5	757.8	760.0	762.3	764.5	769.8	782.6	787.9	788.7	789.4	792.4
12.5°	791.7	790.9	787.9	787.9	787.2	797.0	814.3	824.1	825.6	828.6	830.9
15°	815.1	812.8	808.3	805.3	809.0	824.9	850.5	861.8	863.3	865.6	871.6
17.5°	837.7	835.4	825.6	818.1	823.4	849.0	883.7	895.7	898.8	901.0	907.8
20°	869.4	867.8	853.5	835.4	833.9	867.1	909.3	925.1	927.4	930.4	937.2
22.5°	917.6	910.8	894.2	860.3	843.7	877.6	927.4	949.3	952.3	955.3	964.4
25°	977.9	974.9	946.3	894.2	859.6	888.2	947.0	974.2	978.7	982.5	994.5
27.5°	1040.5	1036.0	1005.1	937.2	887.5	909.3	977.9	1008.8	1014.9	1020.9	1032.2
30°	1096.3	1094.8	1069.2	995.3	932.7	949.3	1027.7	1065.4	1072.2	1079.7	1090.3
32.5°	1227.5	1228.3	1201.9	1126.5	1042.0	1021.7	1099.3	1155.9	1158.9	1167.9	1186.8
35°	1478.6	1481.6	1471.8	1412.2	1317.2	1233.5	1241.1	1296.9	1299.9	1307.4	1325.5
37.5°	1646.7	1652.8	1682.9	1701.8	1653.5	1615.1	1519.3	1497.4	1499.7	1495.2	1491.4
40°	1739.5	1748.5	1827.7	1925.7	1978.5	1979.2	1937.8	1841.3	1804.3	1793.8	1748.5
42.5°	1792.2	1807.3	1919.7	2087.1	2238.6	2342.7	2368.3	2261.2	2234.1	2185.8	2099.1
45°	1826.9	1845.0	1977.7	2206.9	2430.1	2607.3	2740.8	2693.3	2675.2	2645.8	2565.8
47.5°	1820.9	1835.2	1973.2	2247.7	2530.4	2782.2	3019.0	3068.0	3046.1	3038.6	2984.3
50°	1710.8	1723.6	1863.9	2146.6	2475.4	2848.6	3195.4	3334.2	3334.2	3348.5	3331.9
52.5°	1593.2	1603.7	1731.2	1985.3	2297.4	2783.7	3293.4	3523.4	3553.6	3578.5	3617.7
55°	1548.7	1561.5	1658.0	1875.2	2145.9	2598.3	3326.6	3665.2	3721.0	3763.2	3852.2
57.5°	1569.8	1582.6	1651.2	1815.6	2056.9	2409.0	3328.1	3855.9	3963.7	4050.5	4230.7
60°	1661.0	1673.1	1730.4	1870.7	2033.5	2299.7	3264.0	4159.8	4331.7	4494.6	4794.6
62.5°	1618.8	1633.9	1717.6	1961.9	2207.7	2216.7	3032.6	4395.0	4671.7	4912.3	5389.5
65°	1434.1	1449.9	1515.5	1744.0	2218.2	2252.9	2689.5	4399.6	4743.4	5068.3	5583.3
67.5°	1088.8	1094.8	1146.8	1330.0	1774.1	2292.9	2336.6	3878.5	4205.8	4568.4	5100.0
70°	556.4	567.0	582.1	734.4	1142.3	1894.8	2007.9	2858.4	3275.3	3650.1	4288.7
72.5°	193.0	196.8	211.9	280.5	556.4	1243.3	1757.6	1958.9	2210.7	2561.3	3301.0
75°	116.1	116.1	121.4	141.8	254.1	647.7	1563.8	1600.0	1633.9	1751.5	2235.6
77.5°	92.0	93.5	93.5	97.3	141.0	332.5	1187.5	1487.6	1492.2	1503.5	1584.9
80°	65.6	68.6	74.6	77.7	91.2	182.5	666.5	1305.9	1394.9	1437.9	1497.4
82.5°	49.0	52.0	63.3	67.1	70.9	101.8	299.3	901.0	1063.1	1149.1	1358.7
85°	21.9	25.6	43.0	47.5	49.8	54.3	140.2	256.4	294.8	331.0	436.6
87.5°	3.8	3.8	6.8	9.8	14.3	13.6	30.9	43.7	44.5	52.0	58.1
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3
2.5°	721.6	721.6	721.6	720.8	721.6	721.6	721.6	721.6	722.3	722.3	722.3
5°	737.4	735.9	736.7	736.7	736.7	735.9	737.4	736.7	737.4	739.7	738.9
7.5°	760.8	762.3	763.0	763.8	763.8	763.8	764.5	766.1	766.1	768.3	767.6
10°	795.5	794.7	795.5	797.7	800.0	800.7	803.0	802.2	803.8	806.8	809.8
12.5°	832.4	833.9	836.2	838.4	842.2	843.0	845.2	846.0	850.5	850.5	853.5
15°	873.9	874.6	879.2	879.9	884.4	885.9	889.7	891.2	896.5	897.3	900.3
17.5°	911.6	913.1	915.3	917.6	922.9	925.1	928.2	931.2	935.7	937.2	942.5
20°	941.7	944.8	945.5	950.0	954.6	957.6	960.6	963.6	968.1	970.4	975.7
22.5°	968.9	971.9	974.2	977.9	980.9	985.5	987.0	992.3	996.8	1000.5	1005.1
25°	998.3	1002.8	1005.1	1011.9	1014.1	1018.6	1022.4	1027.7	1033.7	1038.2	1044.3
27.5°	1039.8	1046.5	1049.6	1057.1	1062.4	1064.6	1070.7	1078.2	1083.5	1088.8	1094.8
30°	1097.1	1109.9	1112.1	1117.4	1127.2	1128.7	1136.3	1142.3	1150.6	1155.9	1161.1
32.5°	1186.0	1201.9	1203.4	1209.4	1217.7	1220.7	1226.7	1233.5	1246.4	1248.6	1256.9
35°	1322.5	1329.3	1335.3	1337.6	1344.4	1348.1	1352.7	1360.2	1373.0	1371.5	1380.6
37.5°	1486.1	1488.4	1489.1	1481.6	1483.1	1476.3	1484.6	1486.1	1490.6	1494.4	1503.5
40°	1719.9	1696.5	1693.5	1675.4	1657.3	1647.5	1643.7	1628.6	1632.4	1633.9	1641.4
42.5°	2061.4	2016.2	1978.5	1952.8	1908.4	1886.5	1857.1	1833.7	1815.6	1822.4	1825.4
45°	2494.2	2429.4	2369.0	2290.6	2232.6	2191.1	2139.1	2092.3	2071.2	2061.4	2073.5
47.5°	2926.2	2868.9	2798.1	2717.4	2625.4	2556.8	2470.1	2393.9	2341.1	2321.5	2332.1
50°	3299.5	3246.7	3193.2	3145.7	3038.6	2963.9	2845.6	2746.8	2663.9	2621.6	2610.3
52.5°	3609.4	3581.5	3552.8	3512.9	3426.9	3352.3	3258.0	3160.7	3050.7	2964.7	2935.3
55°	3886.1	3902.7	3888.3	3889.1	3855.2	3807.7	3727.7	3655.4	3578.5	3481.2	3440.5
57.5°	4289.5	4387.5	4407.1	4456.1	4480.2	4505.9	4528.5	4485.5	4465.9	4393.5	4394.3
60°	4925.1	5068.3	5192.8	5305.9	5398.6	5489.1	5584.1	5626.3	5673.0	5694.9	5769.6
62.5°	5601.4	5737.9	5923.4	6074.9	6160.1	6277.7	6381.0	6448.2	6530.3	6617.8	6731.7
65°	5768.8	5933.2	6050.0	6151.1	6235.5	6298.1	6354.7	6434.6	6503.2	6641.9	6776.1
67.5°	5339.8	5471.0	5578.0	5677.6	5743.2	5795.9	5846.5	5899.2	6016.9	6142.8	6277.7
70°	4583.5	4741.9	4919.1	5048.0	5080.4	5125.6	5173.9	5242.5	5301.3	5433.3	5535.8
72.5°	3682.5	3910.2	4060.3	4239.0	4277.4	4346.0	4373.2	4426.7	4437.3	4508.9	4536.0
75°	2566.6	2827.5	2978.3	3109.5	3135.1	3097.4	3112.5	2923.2	2875.0	2835.8	2804.1
77.5°	1694.2	1764.3	1788.5	1767.4	1666.3	1587.2	1502.7	1419.8	1428.8	1361.7	1244.1
80°	1506.5	1522.3	1500.4	1479.3	1421.3	1338.3	1262.2	1184.5	1146.1	1105.4	1045.0
82.5°	1465.8	1526.8	1533.6	1508.0	1462.0	1371.5	1279.5	1164.2	1066.1	975.7	883.7
85°	490.1	596.4	643.9	688.4	702.0	717.8	663.5	589.6	500.7	441.1	345.3
87.5°	62.6	77.7	89.7	76.9	89.7	105.6	76.2	85.2	86.0	53.5	40.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3
2.5°	723.1	722.3	722.3	722.3	721.6	722.3	722.3	722.3	722.3	722.3	721.6
5°	739.7	739.7	741.9	742.7	741.2	740.4	741.2	741.9	741.9	741.2	741.9
7.5°	770.6	771.3	772.8	775.1	773.6	774.4	775.1	774.4	776.6	777.4	776.6
10°	809.8	811.3	815.1	815.8	815.1	818.1	818.8	817.3	818.8	818.8	821.9
12.5°	855.0	856.5	861.1	862.6	864.1	864.8	867.1	867.8	870.1	871.6	873.9
15°	904.0	905.5	908.6	913.8	915.3	916.9	918.4	922.9	923.6	926.7	928.9
17.5°	945.5	947.8	952.3	956.1	958.3	962.1	963.6	968.9	970.4	974.9	978.7
20°	978.7	982.5	986.2	990.7	994.5	999.0	1000.5	1005.8	1008.8	1011.1	1015.6
22.5°	1008.8	1013.4	1018.6	1023.9	1026.9	1033.0	1035.2	1037.5	1044.3	1047.3	1051.8
25°	1048.1	1052.6	1058.6	1065.4	1068.4	1075.9	1078.2	1082.0	1089.5	1092.5	1099.3
27.5°	1101.6	1107.6	1112.1	1118.9	1122.7	1128.0	1133.3	1137.8	1144.6	1149.1	1156.6
30°	1168.7	1173.2	1180.8	1186.0	1192.1	1199.6	1205.6	1210.2	1213.9	1220.7	1229.0
32.5°	1267.5	1268.2	1270.5	1283.3	1289.3	1295.4	1303.7	1307.4	1313.5	1320.2	1329.3
35°	1390.4	1397.1	1402.4	1408.5	1415.2	1422.0	1425.0	1436.4	1441.6	1450.7	1459.7
37.5°	1512.5	1513.3	1525.3	1529.1	1535.1	1541.9	1552.5	1563.8	1577.4	1586.4	1600.7
40°	1643.7	1649.7	1664.8	1672.4	1679.9	1696.5	1704.8	1722.9	1745.5	1758.3	1782.4
42.5°	1833.7	1842.8	1869.9	1882.0	1900.1	1927.2	1944.5	1969.4	1978.5	2009.4	2020.7
45°	2082.5	2110.4	2149.6	2175.3	2207.7	2237.1	2252.2	2263.5	2277.1	2301.2	2298.2
47.5°	2351.7	2387.9	2431.6	2484.4	2505.5	2540.2	2559.8	2581.7	2569.6	2563.6	2557.5
50°	2627.7	2669.9	2727.9	2775.4	2807.9	2829.0	2845.6	2842.6	2816.9	2803.3	2765.6
52.5°	2934.5	2959.4	3014.5	3055.2	3074.8	3079.3	3075.5	3052.9	3028.8	2985.8	2941.3
55°	3405.0	3393.7	3415.6	3434.4	3428.4	3449.5	3395.2	3374.1	3314.6	3258.8	3199.2
57.5°	4361.1	4376.2	4254.0	4199.0	4189.2	4208.8	4113.0	4101.0	3957.0	3938.9	3838.6
60°	5759.0	5832.9	5737.1	5683.6	5538.8	5491.3	5384.3	5339.8	5201.8	5090.2	4949.2
62.5°	6810.1	6877.2	6917.1	6841.0	6756.5	6632.1	6470.0	6290.6	6144.3	5973.1	5823.8
65°	6905.1	7040.8	7132.8	7168.2	7108.7	6972.2	6772.4	6546.2	6322.2	6107.3	5918.8
67.5°	6461.0	6582.4	6724.9	6852.3	6859.8	6770.9	6600.5	6370.5	6111.9	5846.5	5625.5
70°	5697.9	5850.2	5974.6	6108.9	6202.4	6151.1	6065.9	5854.8	5586.3	5379.7	5125.6
72.5°	4634.0	4698.1	4728.3	4860.2	4861.7	4768.3	4707.9	4591.1	4374.7	4228.4	4034.6
75°	2706.1	2565.1	2415.0	2284.6	2178.3	2133.8	1936.3	1903.1	1770.4	1688.2	1567.6
77.5°	1115.9	990.0	827.9	692.9	559.5	499.1	411.7	373.2	323.5	301.6	287.3
80°	956.8	837.7	715.5	598.7	494.6	390.6	303.9	236.0	185.5	157.6	146.3
82.5°	781.1	709.5	624.3	561.0	479.5	401.9	339.3	263.1	196.8	144.8	110.8
85°	282.0	231.5	186.2	171.2	136.5	112.3	94.2	80.7	66.4	52.8	46.7
87.5°	31.7	30.2	17.3	16.6	18.8	13.6	15.8	14.3	12.1	10.6	11.3
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°	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3
2.5°	721.6	721.6	722.3	722.3	723.1	723.8	725.3	724.6	724.6	725.3	725.3
5°	741.9	744.2	743.4	743.4	743.4	744.2	744.9	741.9	738.9	735.9	734.4
7.5°	777.4	778.9	780.4	778.9	780.4	779.6	778.1	769.8	760.0	748.0	739.7
10°	823.4	823.4	824.9	824.1	827.1	824.9	820.3	801.5	780.4	754.7	735.9
12.5°	873.1	878.4	876.1	876.9	882.9	876.9	866.3	838.4	800.7	759.3	726.1
15°	931.9	934.2	935.7	933.4	937.2	931.9	913.1	868.6	813.6	755.5	706.5
17.5°	980.2	980.9	981.7	983.2	988.5	982.5	950.0	889.7	816.6	738.2	673.3
20°	1017.9	1021.7	1024.7	1024.7	1032.2	1023.2	980.2	900.3	806.8	709.5	631.1
22.5°	1057.1	1060.1	1063.9	1064.6	1074.4	1065.4	1005.1	898.0	781.1	668.8	582.1
25°	1105.4	1108.4	1111.4	1115.2	1128.7	1115.9	1030.0	889.0	745.7	620.5	529.3
27.5°	1161.1	1167.9	1170.2	1176.2	1192.1	1172.5	1051.1	875.4	706.5	564.7	473.5
30°	1235.8	1244.1	1247.1	1255.4	1277.3	1234.3	1063.1	852.0	656.7	508.2	413.9
32.5°	1336.1	1347.4	1356.4	1365.5	1390.4	1296.1	1064.6	818.1	598.7	444.9	356.6
35°	1467.3	1484.6	1491.4	1497.4	1520.8	1363.2	1057.9	767.6	527.8	380.0	311.4
37.5°	1614.3	1631.6	1636.2	1639.2	1643.7	1420.5	1041.3	690.7	447.9	323.5	275.2
40°	1795.3	1810.3	1816.4	1811.8	1787.7	1465.0	1004.3	600.9	370.2	285.0	252.6
42.5°	2016.2	2038.8	2041.1	2020.7	1940.8	1489.9	930.4	495.4	309.1	257.1	235.2
45°	2289.9	2288.4	2275.6	2261.2	2107.4	1480.1	827.1	403.4	270.7	235.2	219.4
47.5°	2535.7	2510.0	2490.4	2448.2	2254.4	1422.8	693.7	334.0	247.3	218.7	205.8
50°	2737.0	2690.2	2648.8	2602.8	2363.8	1321.0	561.0	283.5	225.4	204.3	193.0
52.5°	2896.1	2839.5	2791.3	2746.0	2469.3	1207.9	459.9	246.6	204.3	190.0	178.7
55°	3144.9	3088.4	3011.4	2961.7	2630.7	1103.8	394.3	217.2	184.0	174.9	163.6
57.5°	3774.5	3724.7	3632.7	3503.8	3045.4	1064.6	357.4	194.5	167.4	162.1	153.1
60°	4873.8	4793.1	4673.3	4542.1	3888.3	1091.0	328.0	178.7	156.1	151.6	144.8
62.5°	5703.2	5561.5	5425.7	5304.3	4562.4	1090.3	289.5	166.6	147.8	145.5	138.7
65°	5737.1	5593.1	5456.7	5329.2	4577.5	970.4	244.3	156.1	146.3	145.5	134.2
67.5°	5432.5	5276.4	5144.5	4983.9	4237.4	758.5	196.0	149.3	152.3	150.8	132.7
70°	4934.9	4731.3	4622.7	4464.4	3729.3	530.8	161.4	151.6	165.1	160.6	135.0
72.5°	3873.3	3719.4	3554.3	3444.2	2919.5	335.5	135.7	153.1	170.4	162.9	141.0
75°	1441.6	1483.1	1415.2	1391.1	1483.1	196.8	120.6	142.5	152.3	141.0	128.2
77.5°	291.0	278.2	263.9	260.9	337.0	121.4	110.8	123.7	116.9	103.3	104.1
80°	139.5	135.7	131.2	130.4	125.2	101.0	102.5	105.6	88.2	79.9	85.2
82.5°	92.7	87.5	86.0	82.9	84.4	90.5	97.3	90.5	67.9	63.3	76.9
85°	43.0	41.5	40.7	40.7	45.2	81.4	80.7	66.4	46.7	45.2	76.9
87.5°	10.6	10.6	11.3	10.6	12.1	24.1	21.1	20.4	17.3	19.6	36.2
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):

	165°	175°	180°
0°	719.3	719.3	719.3
2.5°	724.6	725.3	724.6
5°	731.4	731.4	731.4
7.5°	731.4	729.1	728.4
10°	720.8	714.0	714.0
12.5°	702.7	691.4	689.9
15°	668.8	653.7	651.5
17.5°	625.8	605.5	601.7
20°	577.6	551.9	547.4
22.5°	524.8	495.4	493.1
25°	472.8	442.6	436.6
27.5°	414.7	385.3	382.3
30°	356.6	331.0	329.5
32.5°	307.6	291.8	288.8
35°	272.9	263.9	260.1
37.5°	250.3	243.5	242.8
40°	233.0	227.0	226.2
42.5°	218.7	213.4	212.6
45°	204.3	199.8	198.3
47.5°	190.0	185.5	184.7
50°	177.2	171.2	170.4
52.5°	165.1	159.1	157.6
55°	153.8	147.8	147.8
57.5°	144.0	138.0	137.2
60°	135.0	128.9	128.2
62.5°	128.2	120.6	119.9
65°	122.9	115.4	113.9
67.5°	119.9	110.8	108.6
70°	125.2	108.6	104.8
72.5°	125.9	106.3	101.0
75°	121.4	100.3	96.5
77.5°	106.3	89.7	86.0
80°	92.0	69.4	64.1
82.5°	87.5	56.5	49.0
85°	67.9	36.9	34.7
87.5°	38.5	20.4	16.6
90°	0.0	0.0	0.0

(END OF REPORT)