

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: McGRAW-EDISON

Report Number: P158529

Luminaire Tested: **VTS-E02-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158529
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E02-LED-E1-SL4-7030
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

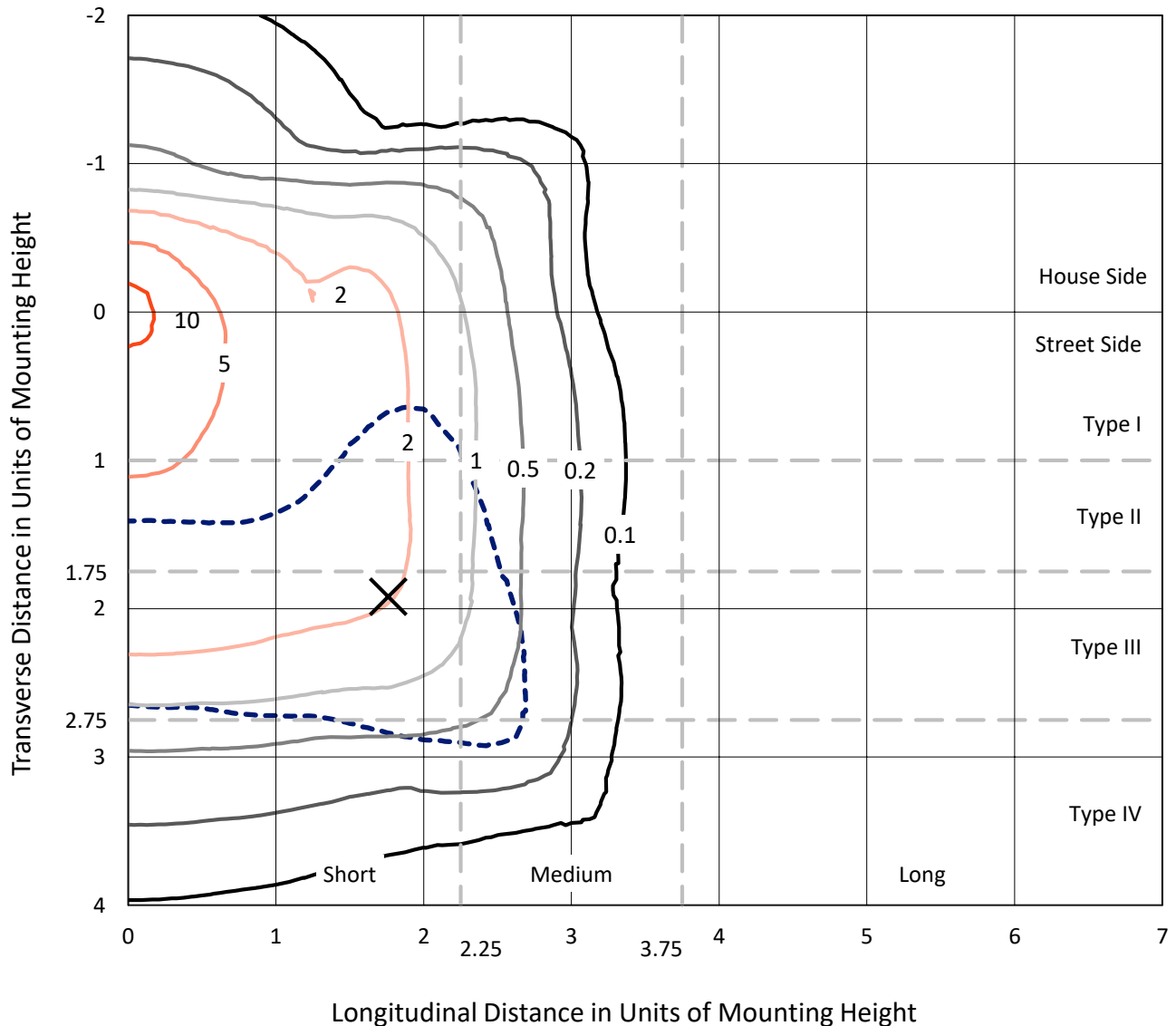
Lumens per Lamp: N/A
Luminaire Lumens: 5299.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

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

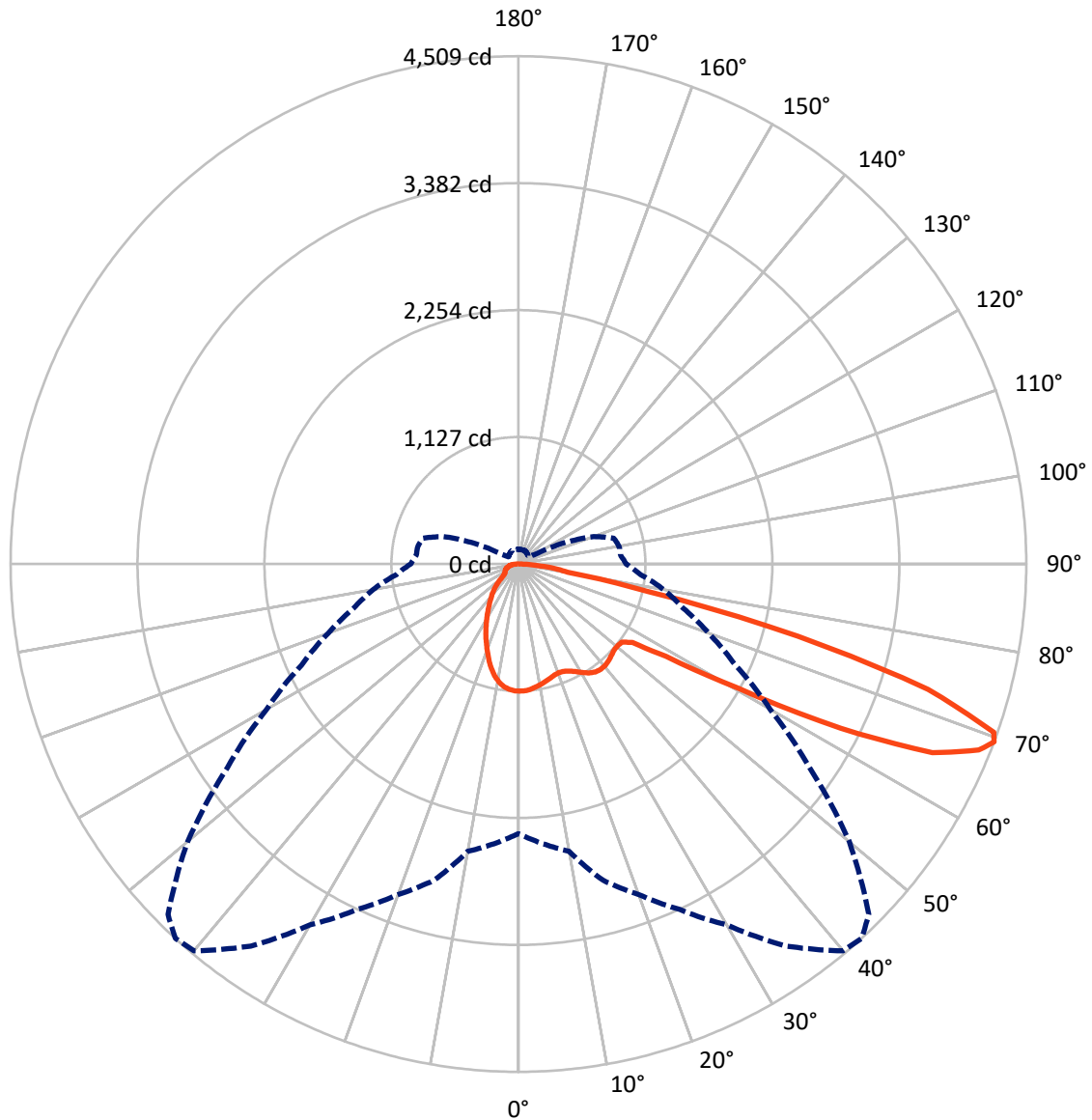
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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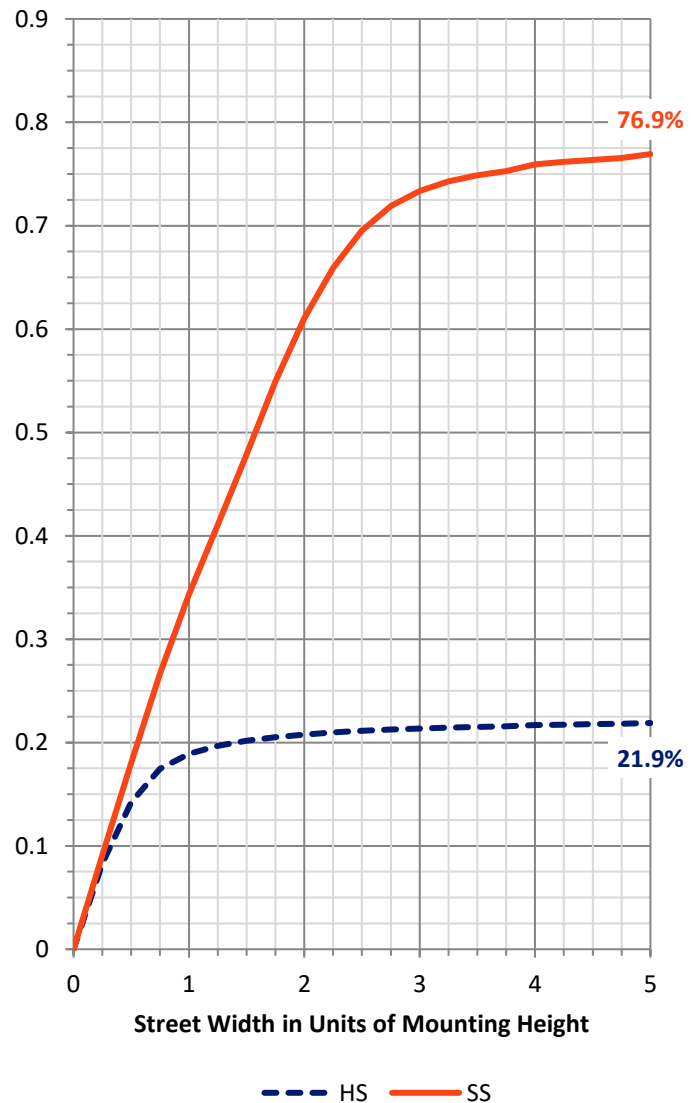
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.1	0.0	1178.1
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	4121.1	0.0	4121.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	5299.1	0.0	5299.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	2.0
10°-20°	283.1	5.3
20°-30°	412.9	7.8
30°-40°	526.3	9.9
40°-50°	612.4	11.6
50°-60°	931.7	17.6
60°-70°	1645.9	31.1
70°-80°	679.2	12.8
80°-90°	102.6	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°	5299.1	100.0
0°-180°	5299.1	100.0



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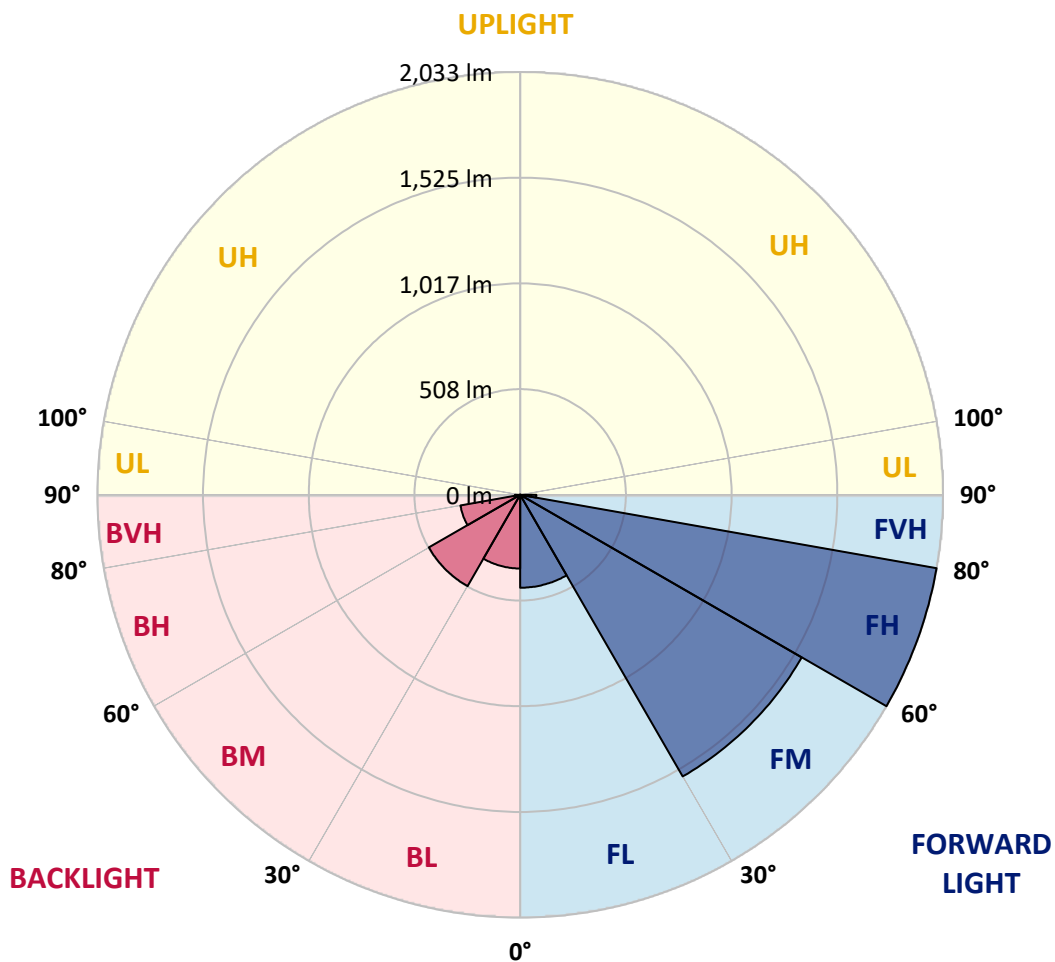
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	446.8	8.4			
FM	(30°-60°)	1563.4	29.5			
FH	(60°-80°)	2033.3	38.4			G2/5000
FVH	(80°-90°)	77.6	1.5			G1/100
BL	(0°-30°)	354.2	6.7	B1/500		
BM	(30°-60°)	507.1	9.6	B1/1000		
BH	(60°-80°)	291.8	5.5	B1/500		G1/500
BVH	(80°-90°)	25.0	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5
2.5°	1124.9	1128.9	1127.4	1127.4	1128.5	1126.7	1126.7	1127.4	1125.6	1126.7	1126.3
5°	1120.9	1123.1	1122.3	1122.3	1122.3	1120.9	1120.1	1119.8	1117.2	1117.2	1116.1
7.5°	1112.1	1112.8	1113.9	1112.5	1112.1	1111.7	1109.2	1107.7	1104.8	1102.2	1103.0
10°	1100.4	1100.0	1101.9	1100.8	1099.3	1098.2	1096.0	1093.5	1090.2	1086.9	1086.5
12.5°	1087.3	1086.9	1088.3	1087.6	1086.5	1084.3	1082.5	1078.1	1073.0	1069.0	1068.6
15°	1078.8	1077.8	1079.2	1077.8	1075.9	1073.7	1070.4	1065.0	1055.8	1051.8	1048.5
17.5°	1086.9	1085.1	1085.8	1084.0	1081.4	1075.6	1067.9	1056.2	1043.0	1036.1	1031.0
20°	1115.0	1111.7	1112.5	1110.6	1104.8	1097.1	1082.5	1062.0	1039.8	1028.4	1020.4
22.5°	1155.2	1152.6	1153.7	1151.9	1146.1	1134.4	1112.5	1083.2	1051.4	1035.0	1022.2
25°	1216.2	1218.4	1219.1	1210.7	1207.4	1185.9	1155.6	1115.0	1072.6	1053.3	1035.7
27.5°	1284.9	1284.9	1288.2	1284.9	1278.3	1253.1	1210.4	1161.4	1107.0	1080.7	1059.5
30°	1351.8	1351.0	1357.2	1356.5	1345.9	1317.4	1268.8	1209.3	1147.2	1117.6	1090.5
32.5°	1422.6	1424.8	1428.8	1427.4	1413.5	1374.0	1315.6	1250.9	1185.5	1153.0	1122.7
35°	1499.4	1500.5	1501.9	1501.2	1473.1	1423.4	1349.9	1277.6	1209.6	1177.5	1146.1
37.5°	1576.1	1575.0	1573.2	1557.4	1525.3	1456.2	1370.8	1292.9	1221.7	1187.0	1154.5
40°	1644.8	1638.6	1632.7	1608.2	1558.9	1474.9	1378.8	1296.6	1220.6	1184.8	1153.0
42.5°	1682.4	1675.4	1663.4	1632.7	1572.8	1476.7	1373.3	1285.6	1209.3	1173.8	1142.4
45°	1689.3	1684.2	1672.5	1638.2	1569.5	1465.0	1356.5	1267.7	1192.5	1157.0	1127.4
47.5°	1672.9	1668.9	1657.5	1623.6	1555.3	1447.5	1337.1	1248.7	1176.0	1142.8	1114.3
50°	1647.7	1644.0	1635.3	1604.2	1539.2	1435.4	1327.3	1238.9	1170.5	1140.2	1113.9
52.5°	1688.6	1691.5	1666.0	1632.0	1556.3	1446.0	1338.2	1249.1	1180.4	1150.5	1123.1
55°	2324.7	2320.6	2166.8	2037.9	1807.3	1598.4	1442.4	1330.2	1256.8	1226.8	1201.2
57.5°	3020.6	3006.7	2943.5	2823.0	2575.3	2244.6	1944.0	1688.2	1587.4	1544.3	1547.2
60°	3247.9	3253.0	3239.5	3196.7	3107.9	2935.9	2707.2	2515.0	2325.8	2233.3	2243.9
62.5°	3373.9	3383.0	3394.7	3385.2	3356.4	3316.6	3287.7	3305.2	3278.9	3212.4	3159.5
65°	3391.5	3410.1	3448.8	3479.5	3494.5	3532.1	3620.5	3832.4	4026.0	4038.8	3945.7
67.5°	3044.4	3095.9	3179.9	3322.0	3443.7	3577.4	3790.8	4113.0	4398.7	4408.2	4321.2
69°	2393.7	2492.7	2591.0	2908.5	3122.2	3384.1	3699.8	4140.0	4482.4	4508.7	4399.1
70°	1918.0	1976.9	2061.6	2380.6	2699.9	3033.8	3491.2	4050.9	4425.0	4478.0	4357.0
72.5°	1151.6	1174.2	1203.4	1317.8	1482.2	1779.6	2386.0	3302.7	3732.7	3803.6	3649.7
75°	744.6	743.1	745.7	777.4	786.9	843.9	1035.0	1699.2	2435.0	2563.6	2379.5
77.5°	560.8	565.9	557.9	560.8	558.2	573.6	579.4	608.3	961.2	1184.1	1058.8
80°	495.0	497.6	498.0	496.5	478.6	477.1	486.6	470.2	436.9	443.5	424.9
82.5°	282.4	282.0	285.3	310.2	320.4	354.0	367.9	375.6	346.7	325.2	294.1
85°	183.0	184.5	188.2	195.8	188.2	191.1	187.8	194.4	178.3	165.5	148.0
87.5°	74.9	74.9	79.6	86.6	80.7	79.3	68.0	67.2	57.0	51.5	40.2
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5
2.5°	1124.2	1126.3	1125.2	1126.7	1125.6	1125.6	1124.2	1123.8	1124.9	1123.4	1123.8
5°	1114.3	1114.7	1112.8	1113.6	1111.4	1110.6	1109.5	1106.6	1108.4	1106.6	1107.3
7.5°	1100.0	1098.9	1096.4	1092.7	1090.2	1089.1	1086.9	1082.9	1083.6	1080.3	1082.1
10°	1081.8	1078.1	1073.7	1068.3	1064.6	1061.3	1056.6	1051.8	1049.3	1046.3	1046.0
12.5°	1061.3	1056.9	1051.1	1042.7	1034.6	1029.2	1021.9	1013.5	1010.9	1006.1	1003.6
15°	1039.0	1032.1	1025.1	1015.6	1006.9	998.5	988.6	978.0	971.1	963.8	958.3
17.5°	1018.9	1010.9	1001.8	992.6	983.1	972.9	960.5	947.3	937.1	923.6	912.6
20°	1003.2	993.0	983.9	974.4	963.8	951.3	936.4	919.6	902.4	887.4	874.6
22.5°	997.0	980.9	970.0	960.5	949.9	935.3	917.0	897.3	876.5	855.6	838.8
25°	1002.1	978.4	961.2	949.9	940.8	925.8	905.3	881.2	857.1	832.2	809.6
27.5°	1017.1	986.8	961.9	944.0	933.4	918.5	896.9	871.3	842.8	815.1	787.3
30°	1040.5	1001.0	969.6	944.4	928.0	910.8	888.1	858.5	829.7	797.9	767.6
32.5°	1063.1	1016.0	978.4	945.9	920.7	898.4	873.2	843.9	812.9	779.6	748.2
35°	1079.2	1025.9	981.7	942.6	909.3	881.6	854.5	825.3	795.0	761.0	728.9
37.5°	1086.9	1031.4	982.0	933.8	894.4	863.7	834.8	805.9	777.4	745.3	715.0
40°	1086.5	1031.0	976.9	922.5	876.5	843.9	815.4	787.3	760.6	732.5	705.1
42.5°	1078.5	1025.1	969.6	911.5	863.7	827.5	797.9	770.9	748.2	723.4	700.4
45°	1066.1	1015.3	961.9	906.4	860.0	823.8	792.4	766.1	746.0	723.4	703.6
47.5°	1056.6	1009.8	963.0	915.5	871.3	833.7	800.5	771.6	754.4	736.2	722.3
50°	1058.0	1012.4	966.7	921.0	879.4	841.4	809.2	782.9	770.5	765.8	762.5
52.5°	1065.7	1016.4	977.7	950.2	936.0	907.5	888.5	872.1	881.2	863.3	842.1
55°	1163.6	1147.5	1185.2	1220.6	1265.5	1282.3	1266.3	1263.3	1278.0	1217.3	1078.1
57.5°	1568.0	1609.7	1667.8	1698.5	1735.7	1725.9	1688.6	1657.5	1621.0	1550.1	1376.6
60°	2256.0	2224.6	2198.3	2124.1	2063.4	1992.6	1913.7	1846.1	1781.4	1679.5	1491.7
62.5°	2964.7	2746.6	2564.3	2388.2	2246.5	2128.8	2014.5	1912.9	1815.0	1672.9	1470.9
65°	3577.8	3118.5	2776.2	2517.9	2310.8	2132.1	1985.3	1845.0	1720.4	1553.8	1354.0
67.5°	3853.2	3277.8	2779.9	2409.8	2123.0	1880.4	1690.4	1478.5	1339.0	1232.3	1119.8
69°	3832.8	3156.2	2581.5	2125.9	1796.4	1513.6	1309.7	1088.7	955.0	909.7	907.1
70°	3735.6	2950.1	2349.9	1895.4	1518.4	1237.4	1042.0	843.6	719.0	687.9	743.1
72.5°	3049.9	2084.6	1472.7	1124.5	864.8	683.6	557.5	442.4	353.3	306.2	316.4
75°	1722.6	965.2	624.0	471.7	398.6	329.5	282.8	241.1	218.1	177.2	140.3
77.5°	626.2	414.3	329.5	285.0	202.0	139.2	116.5	101.9	92.4	92.4	88.0
80°	396.0	312.0	217.7	149.1	110.3	96.1	84.0	73.8	68.0	66.5	68.0
82.5°	247.3	191.1	122.0	93.5	78.5	70.5	61.4	53.7	49.0	47.9	50.1
85°	122.0	94.6	74.2	66.1	62.1	57.7	50.8	43.5	42.0	44.9	52.6
87.5°	36.5	32.5	26.7	27.8	29.2	28.5	22.7	19.7	18.6	24.5	38.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5	1128.5
2.5°	1124.5	1124.2	1124.9	1123.8	1124.5	1124.9	1124.2	1127.4	1125.2	1125.6	1127.1
5°	1108.1	1107.3	1110.3	1109.5	1111.0	1112.5	1111.7	1116.5	1114.7	1116.1	1119.0
7.5°	1080.7	1082.1	1082.5	1082.5	1085.4	1090.2	1091.3	1094.2	1094.2	1098.2	1101.1
10°	1044.1	1044.5	1046.7	1046.3	1050.0	1055.1	1055.8	1060.9	1062.8	1069.4	1073.4
12.5°	1001.8	999.9	999.6	999.2	1004.0	1009.4	1010.2	1018.9	1022.6	1028.4	1035.0
15°	954.3	949.5	948.1	951.0	949.9	953.2	956.5	961.2	966.3	978.0	983.9
17.5°	907.9	898.4	895.8	892.5	889.2	889.2	890.7	896.5	907.1	913.4	926.5
20°	860.4	849.1	839.9	831.1	823.5	820.6	820.9	828.2	835.9	846.1	858.5
22.5°	820.6	803.4	787.7	776.0	760.3	759.9	757.7	759.9	768.3	770.9	777.8
25°	786.2	763.2	742.0	723.0	707.7	699.6	697.4	696.7	692.7	691.6	686.5
27.5°	759.5	731.8	704.4	681.4	662.4	651.4	637.5	627.7	613.4	609.8	600.6
30°	737.6	707.7	677.7	647.7	626.2	606.5	583.1	565.9	544.0	529.7	517.3
32.5°	716.4	686.1	655.8	626.2	592.9	562.3	531.6	504.9	480.4	458.5	440.2
35°	698.9	670.0	639.3	603.5	561.2	517.0	480.1	449.7	416.1	393.1	370.1
37.5°	687.6	661.3	630.6	581.3	526.8	479.3	437.3	400.4	366.1	331.4	305.4
40°	682.5	659.4	621.1	560.8	496.9	444.3	397.9	356.9	313.1	274.0	246.2
42.5°	682.1	658.7	607.9	538.1	472.0	414.7	363.1	314.2	265.6	225.4	198.0
45°	688.7	657.6	594.0	519.1	450.1	390.2	328.8	269.3	214.8	184.9	170.2
47.5°	706.2	659.4	582.7	501.6	429.3	360.6	289.3	219.9	175.0	161.1	161.1
50°	737.6	670.0	579.8	489.2	408.5	326.2	241.1	177.6	154.9	154.9	159.3
52.5°	785.8	692.3	584.9	480.4	382.5	280.9	190.0	153.1	148.7	152.7	158.6
55°	896.9	731.8	591.9	465.4	343.1	222.9	156.7	144.7	146.5	151.3	156.7
57.5°	1100.8	816.2	599.2	432.6	279.5	171.7	142.1	141.4	144.7	149.1	153.8
60°	1234.8	923.6	617.8	382.9	211.5	141.8	134.8	139.2	143.2	146.9	150.5
62.5°	1234.8	953.9	631.7	327.3	158.9	129.0	130.1	137.0	141.8	143.6	145.8
65°	1155.9	898.4	584.5	266.7	129.3	121.7	125.7	132.6	137.0	138.5	140.3
67.5°	1010.2	793.5	492.5	200.9	115.4	115.4	120.6	125.7	129.3	132.3	135.2
69°	878.3	712.0	433.7	170.2	110.0	110.7	115.8	120.2	124.6	128.2	131.9
70°	783.3	651.0	392.7	154.5	106.7	107.0	112.2	116.9	120.9	124.9	129.3
72.5°	419.4	449.7	298.5	126.8	98.3	99.4	104.1	108.5	112.2	116.2	120.2
75°	142.8	193.3	190.0	103.8	88.8	91.7	94.6	98.6	103.4	105.9	108.1
77.5°	83.7	86.6	101.2	84.4	80.0	81.5	84.8	88.0	92.1	94.6	96.4
80°	70.1	69.8	70.1	68.7	69.8	73.1	75.3	79.6	83.3	84.0	83.7
82.5°	57.0	59.9	60.3	59.6	62.8	65.4	67.2	69.8	69.4	70.1	71.6
85°	50.8	50.4	53.0	53.3	53.3	51.5	51.9	51.9	51.9	53.0	53.3
87.5°	50.8	42.4	32.9	29.6	31.1	29.2	27.8	27.4	30.3	33.2	32.5
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):

	160°	165°	170°	175°	180°
0°	1128.5	1128.5	1128.5	1128.5	1128.5
2.5°	1127.8	1128.9	1128.2	1128.2	1128.9
5°	1120.1	1122.0	1121.2	1122.0	1122.0
7.5°	1102.6	1105.2	1107.0	1108.8	1107.7
10°	1077.4	1081.8	1084.7	1086.9	1085.8
12.5°	1039.8	1043.8	1050.0	1053.6	1050.7
15°	988.2	999.6	1003.2	1008.3	1005.4
17.5°	934.5	941.5	945.9	950.6	953.5
20°	862.9	868.4	874.3	876.5	873.2
22.5°	776.7	779.6	778.5	781.8	775.3
25°	682.1	683.9	682.8	685.7	680.3
27.5°	592.6	592.2	592.6	588.9	585.3
30°	506.4	503.1	501.6	496.1	495.0
32.5°	429.3	417.9	412.1	404.1	402.2
35°	352.2	336.1	325.5	316.4	312.4
37.5°	283.1	263.8	251.4	243.3	242.2
40°	224.0	206.1	197.3	192.9	192.2
42.5°	182.7	175.0	172.8	172.8	172.8
45°	166.6	166.2	168.1	169.5	169.9
47.5°	163.3	165.5	168.1	170.2	171.0
50°	163.3	165.5	167.3	169.5	170.2
52.5°	162.6	164.4	165.1	166.6	167.3
55°	160.4	161.5	161.5	162.2	162.9
57.5°	156.7	157.5	156.4	157.1	158.9
60°	153.1	153.8	152.0	153.8	154.9
62.5°	149.1	149.4	148.7	150.2	150.2
65°	142.5	141.8	142.8	143.9	144.3
67.5°	135.9	134.1	135.2	135.5	136.3
69°	130.8	129.7	130.1	130.8	131.5
70°	127.1	126.4	127.1	128.2	129.3
72.5°	118.0	118.4	120.9	123.1	125.3
75°	109.6	112.2	115.4	120.2	122.8
77.5°	99.4	101.2	103.8	108.9	113.6
80°	85.9	87.0	87.3	89.1	88.8
82.5°	69.8	68.7	68.0	67.2	66.9
85°	50.1	49.7	46.8	44.6	44.6
87.5°	30.0	28.5	27.0	25.2	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)