

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: STREETWORKS

Report Number: P961029

Luminaire Tested: **NVN-SB1D-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9341.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 79.6
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: 24 FT



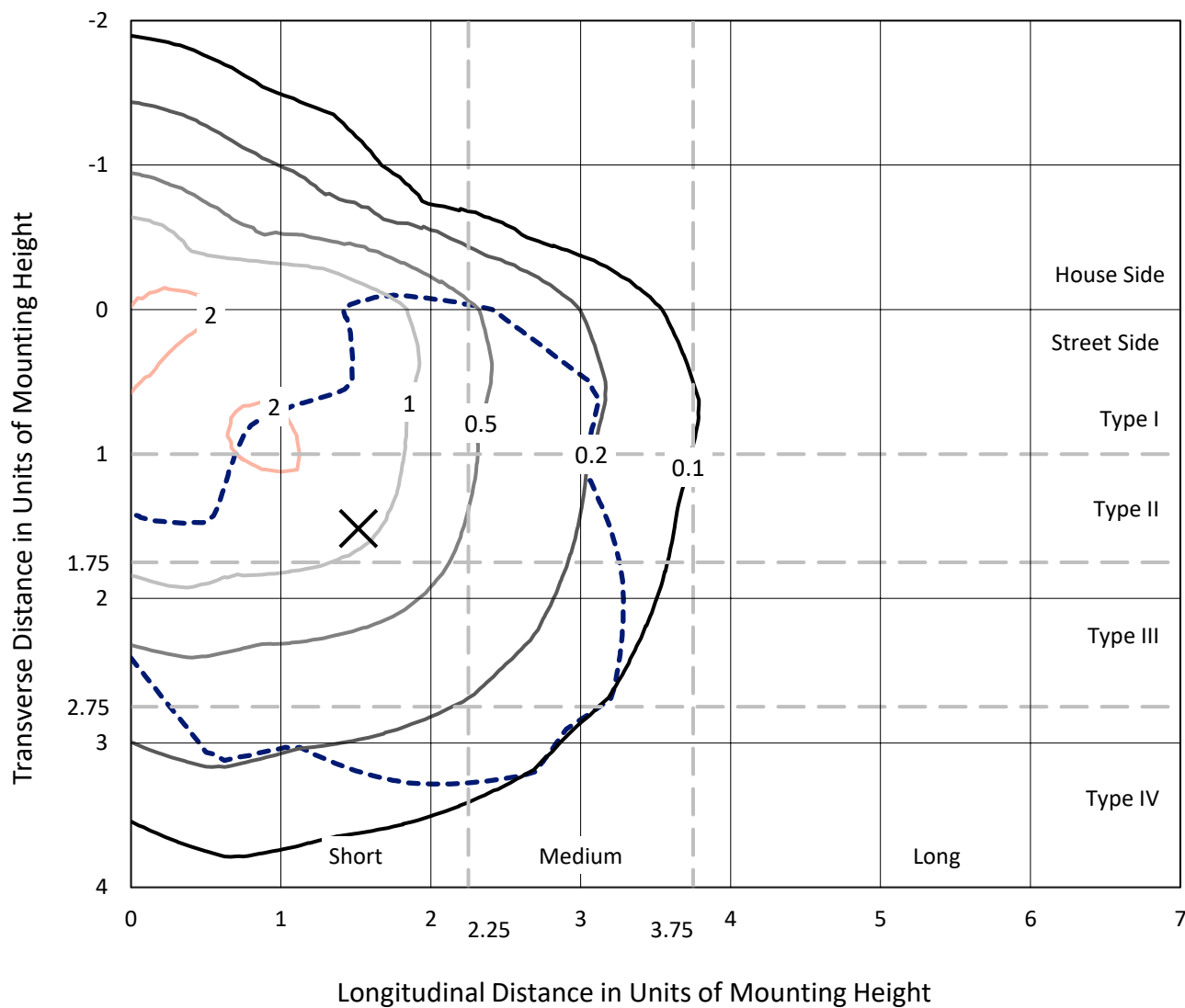
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

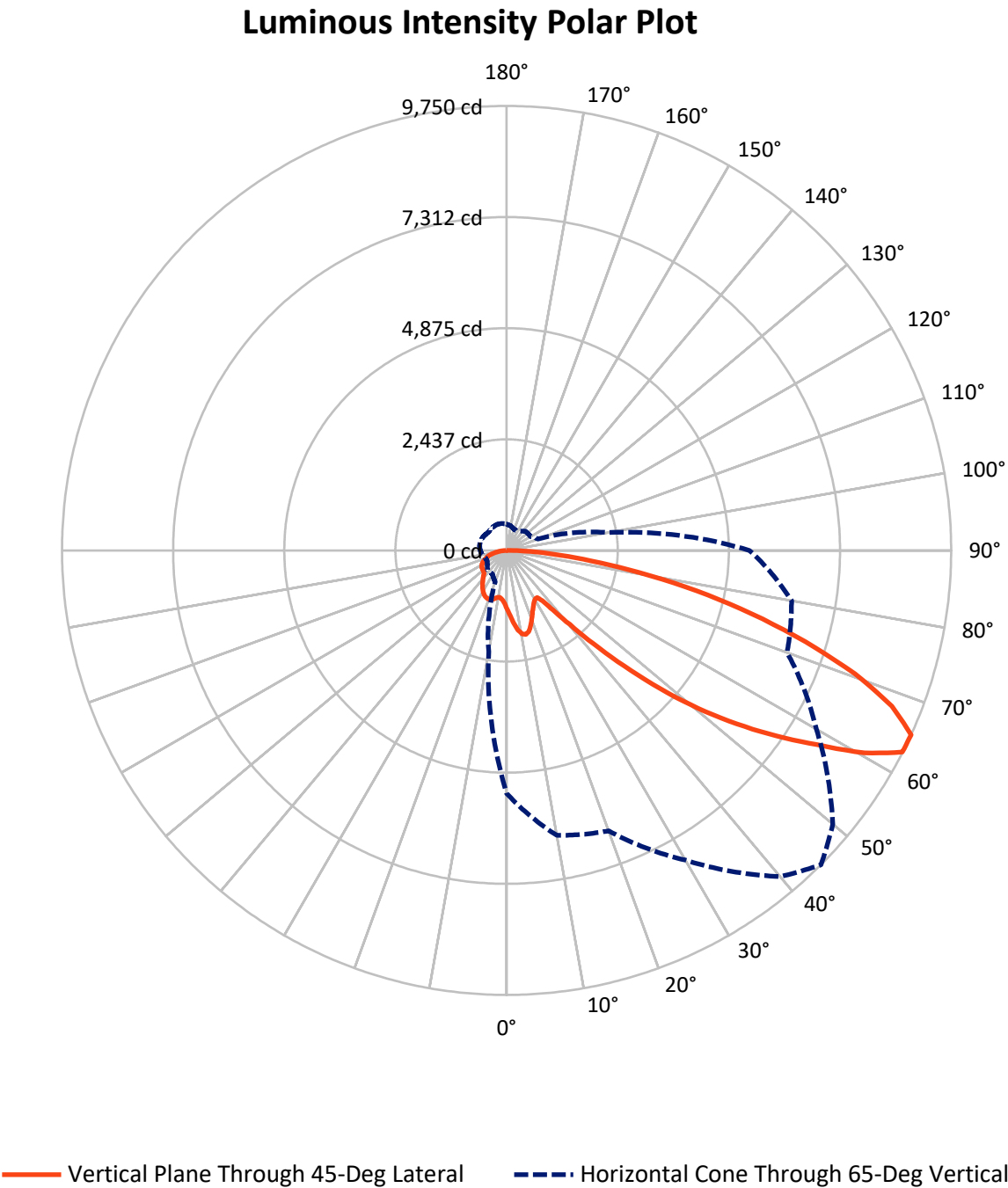
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type IV - Short - N/A

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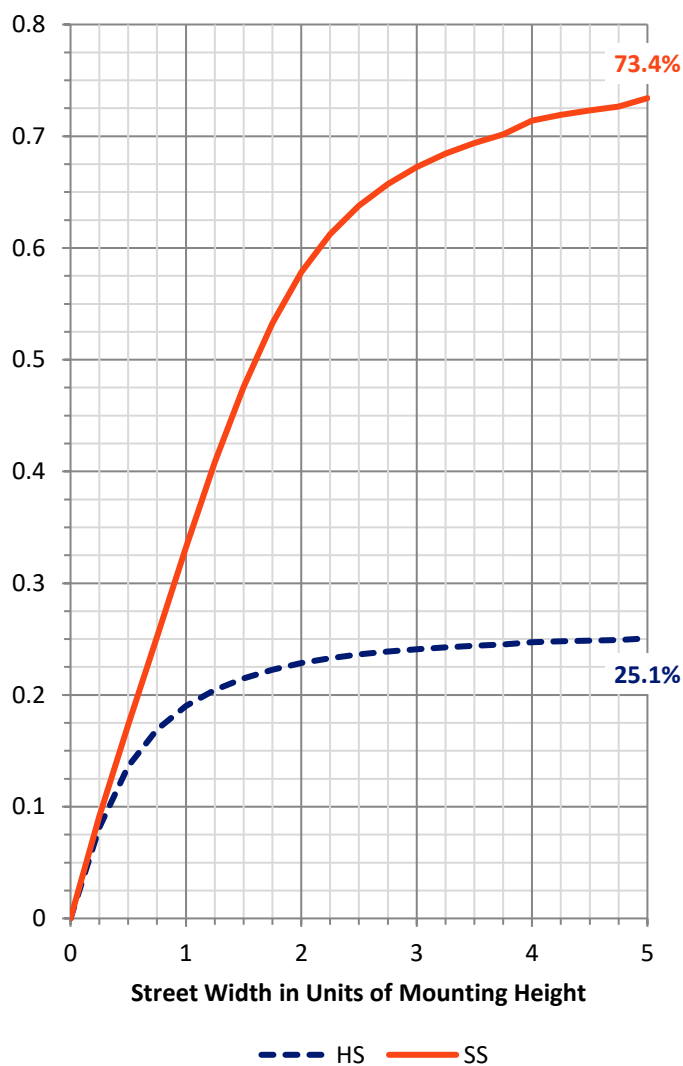
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2374.2	0.0	2374.2
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	6967.6	0.0	6967.6
	% Fixture	74.6	0.0	74.6
Total	Lumens	9341.8	0.0	9341.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.4
10°-20°	400.0	4.3
20°-30°	617.9	6.6
30°-40°	783.0	8.4
40°-50°	1181.0	12.6
50°-60°	1908.1	20.4
60°-70°	2378.8	25.5
70°-80°	1559.9	16.7
80°-90°	385.6	4.1
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°	9341.8	100.0
0°-180°	9341.8	100.0

Coefficient of Utilization



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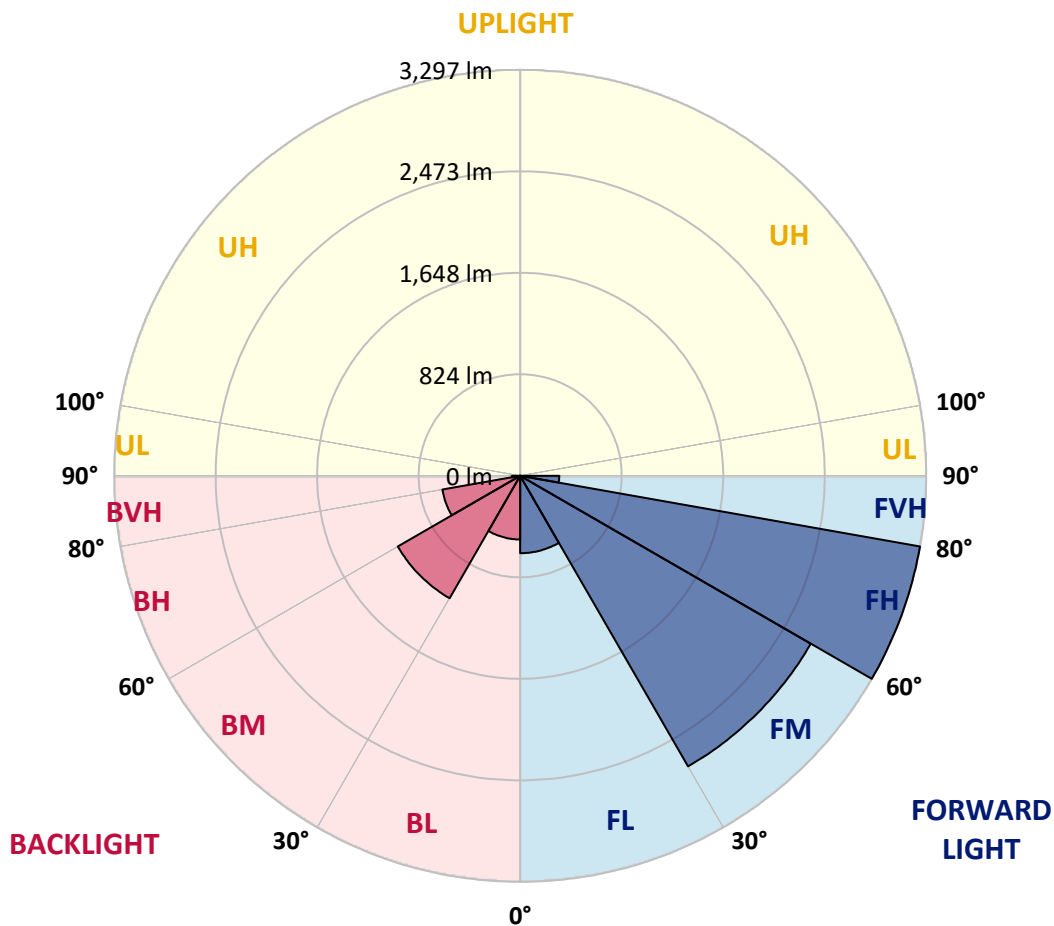
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.3	6.7			
FM	(30°-60°)	2724.8	29.2			
FH	(60°-80°)	3296.8	35.3			G2/5000
FVH	(80°-90°)	317.7	3.4			G3/500
BL	(0°-30°)	517.0	5.5	B2/1000		
BM	(30°-60°)	1147.4	12.3	B2/2500		
BH	(60°-80°)	641.9	6.9	B2/1000		G2/1000
BVH	(80°-90°)	68.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1337.7	1326.4	1315.1	1304.2	1293.3	1282.9	1271.2	1261.7	1252.3	1243.7	1235.3
5°	1391.9	1368.5	1345.0	1323.1	1301.1	1280.4	1259.9	1242.1	1224.2	1209.2	1194.3
7.5°	1441.4	1406.6	1371.9	1341.2	1310.6	1282.4	1255.9	1232.2	1208.5	1188.7	1169.0
10°	1478.0	1435.8	1393.6	1357.4	1321.1	1286.3	1257.9	1232.9	1207.8	1188.1	1168.4
12.5°	1504.9	1455.1	1405.4	1364.4	1323.4	1286.8	1260.3	1239.8	1219.4	1206.3	1193.3
15°	1521.1	1463.8	1406.4	1359.0	1311.6	1271.0	1249.8	1240.0	1230.3	1232.0	1233.8
17.5°	1525.7	1459.2	1392.7	1335.6	1278.6	1230.8	1217.8	1221.4	1225.0	1246.4	1267.9
20°	1527.2	1446.6	1365.9	1295.2	1224.6	1169.0	1165.5	1182.3	1199.0	1236.4	1273.8
22.5°	1529.2	1431.1	1333.0	1247.8	1162.8	1099.5	1106.3	1131.0	1155.8	1198.4	1241.1
25°	1537.0	1415.8	1294.7	1194.9	1095.3	1030.4	1048.7	1077.3	1105.9	1144.2	1182.5
27.5°	1553.2	1405.6	1258.0	1146.6	1035.2	976.2	998.5	1026.0	1053.6	1085.2	1116.6
30°	1575.5	1400.9	1226.0	1106.2	986.4	936.8	954.2	976.1	998.0	1024.2	1050.3
32.5°	1594.7	1394.9	1194.9	1071.3	947.7	907.7	915.4	928.4	941.4	962.3	983.2
35°	1608.8	1383.7	1158.8	1037.1	915.4	882.1	878.9	882.4	886.0	902.0	917.9
37.5°	1617.2	1364.7	1112.1	996.7	881.4	852.3	840.5	836.6	832.7	844.1	855.5
40°	1622.5	1338.4	1054.4	948.6	843.0	816.5	798.6	789.7	780.7	788.9	797.1
42.5°	1632.5	1311.3	990.3	895.5	800.9	776.6	754.0	742.1	730.3	737.0	743.7
45°	1650.0	1286.1	922.2	839.2	756.1	731.5	709.6	698.0	686.5	692.2	697.9
47.5°	1662.1	1265.3	868.5	794.6	720.7	688.9	670.0	660.3	650.7	656.0	661.2
50°	1654.2	1242.6	831.0	765.0	698.8	657.1	635.2	626.6	618.1	626.3	634.7
52.5°	1605.8	1204.4	803.0	745.4	687.9	639.8	609.2	600.6	592.2	604.8	617.2
55°	1505.4	1140.8	776.2	731.2	686.2	641.5	595.3	582.0	568.6	586.3	603.9
57.5°	1356.3	1051.3	746.3	714.5	682.8	643.3	587.1	567.5	548.1	567.0	586.1
60°	1156.3	935.1	713.9	688.9	663.9	637.9	579.3	554.0	528.7	545.4	562.0
62.5°	931.0	796.0	660.9	644.3	627.7	624.5	570.2	538.5	507.0	517.6	528.2
65°	733.9	670.9	607.8	599.9	592.1	592.6	551.1	517.5	483.8	487.9	491.9
67.5°	568.5	550.5	532.6	537.0	541.3	540.3	517.0	489.0	460.9	459.7	458.4
70°	430.6	435.7	440.7	461.0	481.3	481.3	473.8	453.8	433.9	429.5	425.0
72.5°	332.1	347.6	363.1	391.9	420.6	425.4	425.5	411.8	398.2	391.7	385.2
75°	257.9	271.9	285.9	318.2	350.3	372.7	370.7	360.3	349.7	343.5	337.2
77.5°	198.5	208.1	217.6	249.0	280.2	316.9	316.0	307.5	299.1	292.8	286.5
80°	148.8	152.8	156.7	183.3	209.7	253.6	253.5	246.4	239.3	234.0	228.7
82.5°	106.4	107.1	107.8	127.4	146.9	184.4	186.4	183.0	179.5	175.8	172.0
85°	64.4	64.0	63.6	77.9	92.1	120.0	122.7	119.0	115.3	111.1	107.0
87.5°	28.2	27.9	27.5	33.3	39.2	50.7	54.2	52.8	51.2	50.4	49.7
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1227.8	1220.4	1212.9	1205.5	1199.7	1193.9	1189.2	1184.5	1180.9	1177.2	1173.8
5°	1181.1	1167.9	1155.9	1143.9	1134.7	1125.3	1118.9	1112.4	1107.8	1103.3	1099.8
7.5°	1152.4	1135.7	1121.0	1106.4	1095.4	1084.4	1076.8	1069.1	1063.8	1058.6	1055.4
10°	1150.5	1132.5	1116.0	1099.5	1086.4	1073.2	1064.7	1056.0	1050.9	1046.0	1043.3
12.5°	1179.2	1165.2	1148.1	1131.0	1114.3	1097.5	1086.4	1075.3	1069.8	1064.3	1062.0
15°	1230.2	1226.5	1211.7	1196.9	1173.0	1149.1	1132.3	1115.4	1107.7	1100.0	1097.1
17.5°	1279.4	1290.8	1278.8	1266.8	1235.2	1203.7	1178.9	1153.9	1142.6	1131.0	1127.3
20°	1297.6	1321.5	1316.0	1310.5	1274.4	1238.2	1207.8	1177.4	1162.8	1148.0	1143.4
22.5°	1272.2	1303.3	1306.7	1309.9	1275.5	1241.0	1209.6	1178.2	1162.8	1147.3	1142.2
25°	1213.2	1243.7	1255.2	1266.6	1238.3	1210.0	1182.1	1154.4	1140.9	1127.6	1122.7
27.5°	1141.1	1165.7	1178.4	1191.2	1171.1	1150.9	1129.2	1107.6	1098.7	1089.7	1087.4
30°	1070.7	1091.1	1101.5	1111.8	1096.4	1081.1	1065.6	1050.0	1045.5	1040.8	1040.8
32.5°	1002.7	1022.2	1033.7	1045.3	1031.1	1017.0	1004.6	992.3	989.2	986.3	986.7
35°	937.2	956.5	970.4	984.1	974.1	964.1	952.6	941.3	936.6	932.1	931.1
37.5°	874.7	894.1	911.1	928.2	923.5	918.9	908.5	897.9	889.6	881.3	876.9
40°	815.8	834.5	854.0	873.7	874.8	876.0	867.0	858.1	845.9	833.9	825.7
42.5°	761.4	779.1	800.3	821.4	827.2	832.8	825.2	817.7	802.8	787.7	775.8
45°	714.6	731.4	753.4	775.4	783.5	791.6	784.8	778.1	760.9	743.7	729.8
47.5°	677.7	694.0	715.8	737.4	746.8	756.1	751.4	746.7	731.4	716.2	703.3
50°	650.2	665.5	685.0	704.4	716.5	728.5	728.2	728.0	715.8	703.6	691.6
52.5°	631.4	645.5	663.6	681.7	696.0	710.2	712.8	715.3	705.4	695.5	684.7
55°	619.2	634.5	650.4	666.2	681.3	696.4	700.0	703.6	694.8	686.1	676.8
57.5°	604.0	622.0	637.7	653.3	668.6	683.8	687.4	691.0	682.2	673.4	664.2
60°	582.6	603.2	619.2	635.2	650.5	665.7	669.6	673.6	665.0	656.5	646.9
62.5°	552.2	576.3	593.3	610.3	624.2	638.3	642.1	645.9	638.1	630.4	620.3
65°	517.7	543.5	559.8	575.9	588.3	600.6	604.5	608.3	601.0	593.5	583.7
67.5°	482.2	506.0	521.4	536.8	547.5	558.1	561.9	565.6	558.8	552.0	542.9
70°	445.9	466.8	480.1	493.4	503.1	512.6	516.3	520.0	514.3	508.8	500.1
72.5°	401.7	418.1	430.1	442.2	451.6	460.9	465.4	469.7	465.0	460.4	452.1
75°	349.5	361.7	372.6	383.5	392.1	400.7	405.2	409.7	407.4	405.2	398.2
77.5°	296.4	306.4	315.7	325.1	334.2	343.1	347.3	351.6	348.4	345.1	338.1
80°	237.0	245.3	253.1	261.0	267.8	274.7	280.2	285.9	284.5	283.2	273.8
82.5°	171.4	170.7	167.9	165.1	179.7	194.3	203.9	213.4	212.9	212.2	204.3
85°	103.4	99.8	92.1	84.6	98.2	111.9	123.7	135.6	134.6	133.6	127.4
87.5°	49.5	49.4	43.6	37.7	43.5	49.2	54.0	58.7	57.6	56.3	53.1
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1170.4	1166.2	1170.4	1173.8	1177.2	1180.9	1184.5	1189.2	1193.9	1199.7	1205.5
5°	1096.2	1092.9	1096.2	1099.8	1103.3	1107.8	1112.4	1118.9	1125.3	1134.7	1143.9
7.5°	1052.3	1049.9	1052.3	1055.4	1058.6	1063.8	1069.1	1076.8	1084.4	1095.4	1106.4
10°	1040.7	1039.6	1040.7	1043.3	1046.0	1050.9	1056.0	1064.7	1073.2	1086.4	1099.5
12.5°	1059.7	1059.3	1059.7	1062.0	1064.3	1069.8	1075.3	1086.4	1097.5	1114.3	1131.0
15°	1094.1	1093.8	1094.1	1097.1	1100.0	1107.7	1115.4	1132.3	1149.1	1173.0	1196.9
17.5°	1123.5	1122.9	1123.5	1127.3	1131.0	1142.6	1153.9	1178.9	1203.7	1235.2	1266.8
20°	1138.7	1137.2	1138.7	1143.4	1148.0	1162.8	1177.4	1207.8	1238.2	1274.4	1310.5
22.5°	1136.9	1134.8	1136.9	1142.2	1147.3	1162.8	1178.2	1209.6	1241.0	1275.5	1309.9
25°	1117.9	1115.0	1117.9	1122.7	1127.6	1140.9	1154.4	1182.1	1210.0	1238.3	1266.6
27.5°	1085.2	1084.4	1085.2	1087.4	1089.7	1098.7	1107.6	1129.2	1150.9	1171.1	1191.2
30°	1040.8	1041.6	1040.8	1040.8	1040.8	1045.5	1050.0	1065.6	1081.1	1096.4	1111.8
32.5°	987.1	987.8	987.1	986.7	986.3	989.2	992.3	1004.6	1017.0	1031.1	1045.3
35°	930.2	929.7	930.2	931.1	932.1	936.6	941.3	952.6	964.1	974.1	984.1
37.5°	872.5	870.0	872.5	876.9	881.3	889.6	897.9	908.5	918.9	923.5	928.2
40°	817.6	812.8	817.6	825.7	833.9	845.9	858.1	867.0	876.0	874.8	873.7
42.5°	763.9	756.1	763.9	775.8	787.7	802.8	817.7	825.2	832.8	827.2	821.4
45°	715.9	706.8	715.9	729.8	743.7	760.9	778.1	784.8	791.6	783.5	775.4
47.5°	690.3	681.7	690.3	703.3	716.2	731.4	746.7	751.4	756.1	746.8	737.4
50°	679.7	671.4	679.7	691.6	703.6	715.8	728.0	728.2	728.5	716.5	704.4
52.5°	674.0	666.5	674.0	684.7	695.5	705.4	715.3	712.8	710.2	696.0	681.7
55°	667.5	660.5	667.5	676.8	686.1	694.8	703.6	700.0	696.4	681.3	666.2
57.5°	654.9	647.7	654.9	664.2	673.4	682.2	691.0	687.4	683.8	668.6	653.3
60°	637.3	630.0	637.3	646.9	656.5	665.0	673.6	669.6	665.7	650.5	635.2
62.5°	610.3	601.4	610.3	620.3	630.4	638.1	645.9	642.1	638.3	624.2	610.3
65°	574.0	566.4	574.0	583.7	593.5	601.0	608.3	604.5	600.6	588.3	575.9
67.5°	533.8	527.0	533.8	542.9	552.0	558.8	565.6	561.9	558.1	547.5	536.8
70°	491.5	483.6	491.5	500.1	508.8	514.3	520.0	516.3	512.6	503.1	493.4
72.5°	443.9	436.2	443.9	452.1	460.4	465.0	469.7	465.4	460.9	451.6	442.2
75°	391.2	384.0	391.2	398.2	405.2	407.4	409.7	405.2	400.7	392.1	383.5
77.5°	331.2	325.3	331.2	338.1	345.1	348.4	351.6	347.3	343.1	334.2	325.1
80°	264.3	253.4	264.3	273.8	283.2	284.5	285.9	280.2	274.7	267.8	261.0
82.5°	196.3	189.3	196.3	204.3	212.2	212.9	213.4	203.9	194.3	179.7	165.1
85°	121.2	114.9	121.2	127.4	133.6	134.6	135.6	123.7	111.9	98.2	84.6
87.5°	49.9	46.8	49.9	53.1	56.3	57.6	58.7	54.0	49.2	43.5	37.7
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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1212.9	1220.4	1227.8	1235.3	1243.7	1252.3	1261.7	1271.2	1282.9	1293.3	1304.2
5°	1155.9	1167.9	1181.1	1194.3	1209.2	1224.2	1242.1	1259.9	1280.4	1301.1	1323.1
7.5°	1121.0	1135.7	1152.4	1169.0	1188.7	1208.5	1232.2	1255.9	1282.4	1310.6	1341.2
10°	1116.0	1132.5	1150.5	1168.4	1188.1	1207.8	1232.9	1257.9	1286.3	1321.1	1357.4
12.5°	1148.1	1165.2	1179.2	1193.3	1206.3	1219.4	1239.8	1260.3	1286.8	1323.4	1364.4
15°	1211.7	1226.5	1230.2	1233.8	1232.0	1230.3	1240.0	1249.8	1271.0	1311.6	1359.0
17.5°	1278.8	1290.8	1279.4	1267.9	1246.4	1225.0	1221.4	1217.8	1230.8	1278.6	1335.6
20°	1316.0	1321.5	1297.6	1273.8	1236.4	1199.0	1182.3	1165.5	1169.0	1224.6	1295.2
22.5°	1306.7	1303.3	1272.2	1241.1	1198.4	1155.8	1131.0	1106.3	1099.5	1162.8	1247.8
25°	1255.2	1243.7	1213.2	1182.5	1144.2	1105.9	1077.3	1048.7	1030.4	1095.3	1194.9
27.5°	1178.4	1165.7	1141.1	1116.6	1085.2	1053.6	1026.0	998.5	976.2	1035.2	1146.6
30°	1101.5	1091.1	1070.7	1050.3	1024.2	998.0	976.1	954.2	936.8	986.4	1106.2
32.5°	1033.7	1022.2	1002.7	983.2	962.3	941.4	928.4	915.4	907.7	947.7	1071.3
35°	970.4	956.5	937.2	917.9	902.0	886.0	882.4	878.9	882.1	915.4	1037.1
37.5°	911.1	894.1	874.7	855.5	844.1	832.7	836.6	840.5	852.3	881.4	996.7
40°	854.0	834.5	815.8	797.1	788.9	780.7	789.7	798.6	816.5	843.0	948.6
42.5°	800.3	779.1	761.4	743.7	737.0	730.3	742.1	754.0	776.6	800.9	895.5
45°	753.4	731.4	714.6	697.9	692.2	686.5	698.0	709.6	731.5	756.1	839.2
47.5°	715.8	694.0	677.7	661.2	656.0	650.7	660.3	670.0	688.9	720.7	794.6
50°	685.0	665.5	650.2	634.7	626.3	618.1	626.6	635.2	657.1	698.8	765.0
52.5°	663.6	645.5	631.4	617.2	604.8	592.2	600.6	609.2	639.8	687.9	745.4
55°	650.4	634.5	619.2	603.9	586.3	568.6	582.0	595.3	641.5	686.2	731.2
57.5°	637.7	622.0	604.0	586.1	567.0	548.1	567.5	587.1	643.3	682.8	714.5
60°	619.2	603.2	582.6	562.0	545.4	528.7	554.0	579.3	637.9	663.9	688.9
62.5°	593.3	576.3	552.2	528.2	517.6	507.0	538.5	570.2	624.5	627.7	644.3
65°	559.8	543.5	517.7	491.9	487.9	483.8	517.5	551.1	592.6	592.1	599.9
67.5°	521.4	506.0	482.2	458.4	459.7	460.9	489.0	517.0	540.3	541.3	537.0
70°	480.1	466.8	445.9	425.0	429.5	433.9	453.8	473.8	481.3	481.3	461.0
72.5°	430.1	418.1	401.7	385.2	391.7	398.2	411.8	425.5	425.4	420.6	391.9
75°	372.6	361.7	349.5	337.2	343.5	349.7	360.3	370.7	372.7	350.3	318.2
77.5°	315.7	306.4	296.4	286.5	292.8	299.1	307.5	316.0	316.9	280.2	249.0
80°	253.1	245.3	237.0	228.7	234.0	239.3	246.4	253.5	253.6	209.7	183.3
82.5°	167.9	170.7	171.4	172.0	175.8	179.5	183.0	186.4	184.4	146.9	127.4
85°	92.1	99.8	103.4	107.0	111.1	115.3	119.0	122.7	120.0	92.1	77.9
87.5°	43.6	49.4	49.5	49.7	50.4	51.2	52.8	54.2	50.7	39.2	33.3
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):

	330°	335°	340°	345°	350°	355°	360°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1315.1	1326.4	1337.7	1349.0	1360.3	1370.8	1381.5
5°	1345.0	1368.5	1391.9	1415.2	1438.6	1462.1	1485.4
7.5°	1371.9	1406.6	1441.4	1477.0	1512.7	1551.3	1590.0
10°	1393.6	1435.8	1478.0	1525.2	1572.4	1621.2	1670.0
12.5°	1405.4	1455.1	1504.9	1558.4	1611.8	1665.4	1719.1
15°	1406.4	1463.8	1521.1	1579.0	1637.0	1693.0	1749.0
17.5°	1392.7	1459.2	1525.7	1589.0	1652.2	1709.0	1765.7
20°	1365.9	1446.6	1527.2	1596.7	1666.2	1725.2	1784.2
22.5°	1333.0	1431.1	1529.2	1607.2	1685.1	1745.4	1805.6
25°	1294.7	1415.8	1537.0	1626.1	1715.1	1774.2	1833.2
27.5°	1258.0	1405.6	1553.2	1655.7	1758.1	1814.4	1870.7
30°	1226.0	1400.9	1575.5	1693.9	1812.4	1866.8	1921.2
32.5°	1194.9	1394.9	1594.7	1734.0	1873.2	1927.0	1980.8
35°	1158.8	1383.7	1608.8	1779.5	1950.2	2001.7	2053.3
37.5°	1112.1	1364.7	1617.2	1830.5	2043.8	2109.6	2175.4
40°	1054.4	1338.4	1622.5	1895.3	2168.0	2263.8	2359.7
42.5°	990.3	1311.3	1632.5	1980.0	2327.6	2465.8	2604.2
45°	922.2	1286.1	1650.0	2091.5	2533.0	2719.5	2906.1
47.5°	868.5	1265.3	1662.1	2210.3	2758.5	3021.1	3283.7
50°	831.0	1242.6	1654.2	2320.5	2986.7	3382.7	3778.6
52.5°	803.0	1204.4	1605.8	2392.1	3178.4	3762.6	4346.7
55°	776.2	1140.8	1505.4	2376.4	3247.2	4099.4	4951.5
57.5°	746.3	1051.3	1356.3	2265.4	3174.4	4338.0	5501.6
60°	713.9	935.1	1156.3	2058.7	2961.1	4397.7	5834.1
62.5°	660.9	796.0	931.0	1779.4	2627.7	4146.5	5665.3
65°	607.8	670.9	733.9	1494.3	2254.9	3791.2	5327.3
67.5°	532.6	550.5	568.5	1215.1	1861.9	3368.3	4874.6
70°	440.7	435.7	430.6	956.7	1483.0	2906.8	4330.6
72.5°	363.1	347.6	332.1	731.4	1130.8	2406.6	3682.4
75°	285.9	271.9	257.9	530.8	803.9	1833.2	2862.4
77.5°	217.6	208.1	198.5	359.8	520.9	1283.1	2045.2
80°	156.7	152.8	148.8	231.8	314.8	826.7	1338.5
82.5°	107.8	107.1	106.4	142.6	178.9	478.5	778.1
85°	63.6	64.0	64.4	76.2	88.1	215.2	342.3
87.5°	27.5	27.9	28.2	31.6	35.0	70.5	106.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)