

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: LUMARK

Report Number: P961000

Luminaire Tested: **NAV-SB1D-827-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961000
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: LUMARK
Catalog Number: NAV-SB1D-827-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9040.5 lumens
Efficiency: N/A
Efficacy: 113.6 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

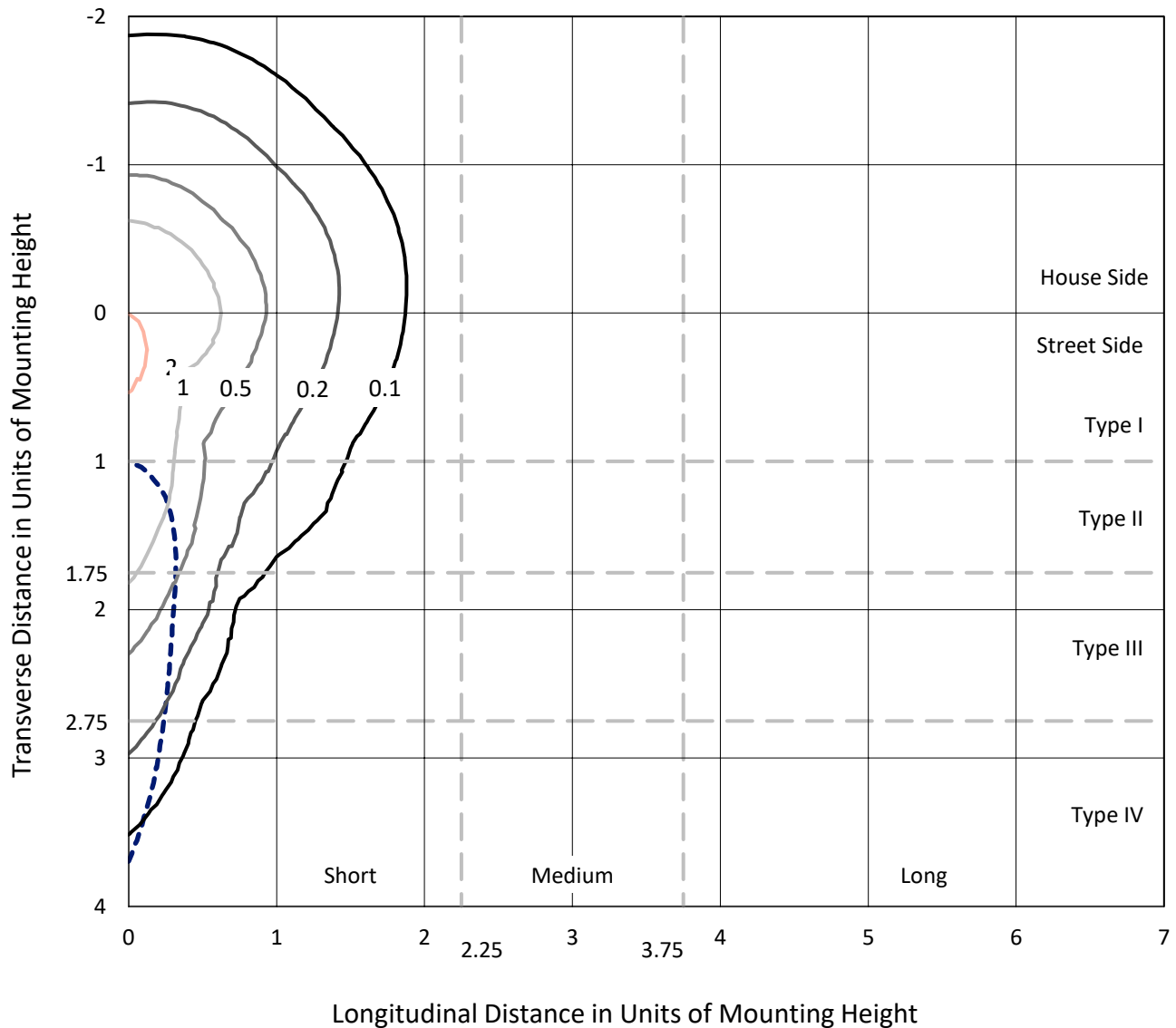


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

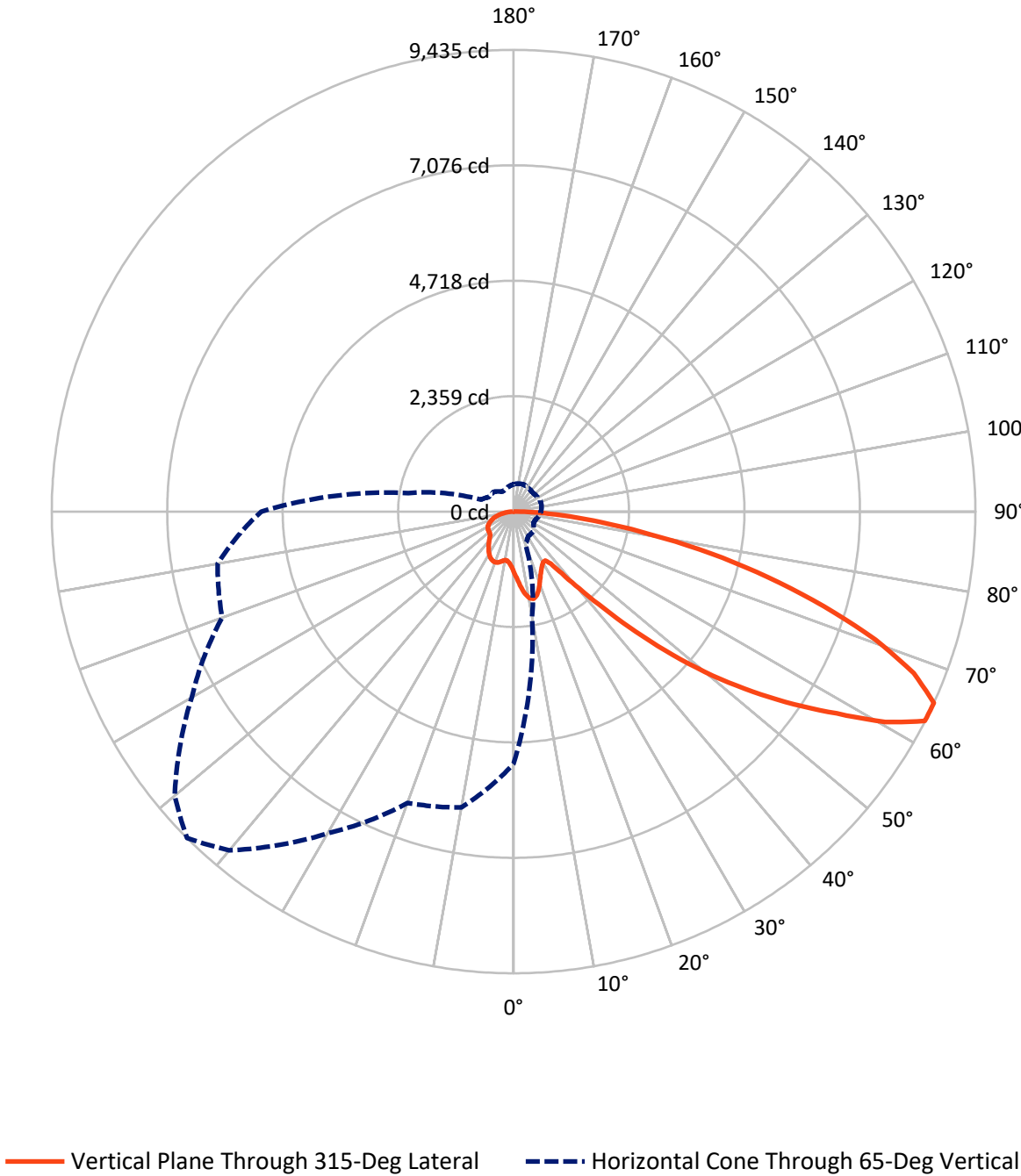


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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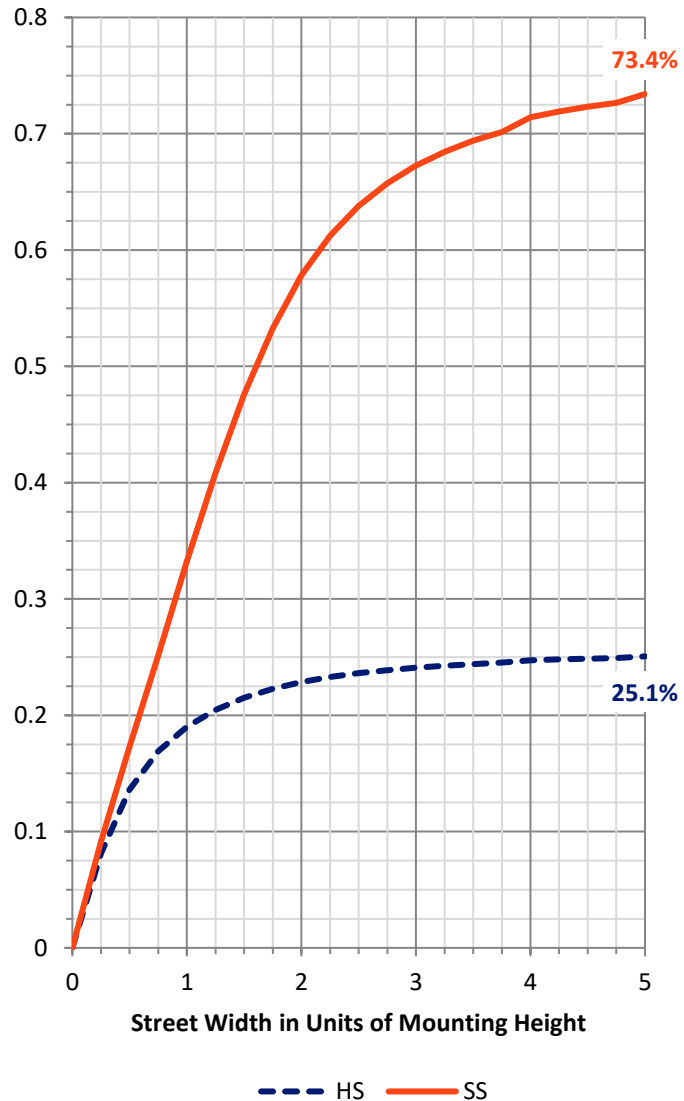
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2297.6	0.0	2297.6
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	6742.9	0.0	6742.9
	% Fixture	74.6	0.0	74.6
Total	Lumens	9040.5	0.0	9040.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	1.4
10°-20°	387.1	4.3
20°-30°	598.0	6.6
30°-40°	757.8	8.4
40°-50°	1142.9	12.6
50°-60°	1846.6	20.4
60°-70°	2302.0	25.5
70°-80°	1509.6	16.7
80°-90°	373.2	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°	9040.5	100.0
0°-180°	9040.5	100.0

Coefficient of Utilization



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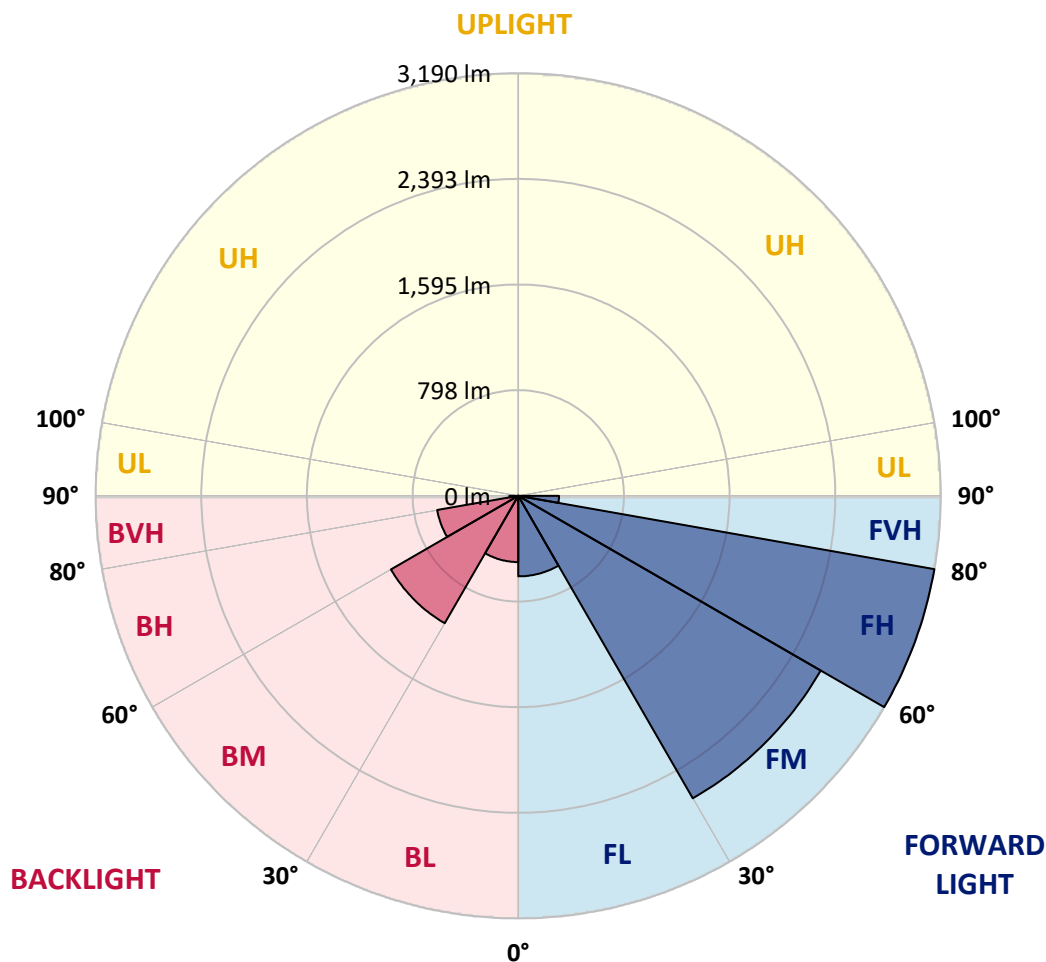
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.1	6.7			
FM	(30°-60°)	2636.9	29.2			
FH	(60°-80°)	3190.4	35.3			G2/5000
FVH	(80°-90°)	307.4	3.4			G3/500
BL	(0°-30°)	500.3	5.5	B2/1000		
BM	(30°-60°)	1110.4	12.3	B2/2500		
BH	(60°-80°)	621.2	6.9	B2/1000		G2/1000
BVH	(80°-90°)	65.8	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 (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1336.9	1326.7	1316.4	1305.4	1294.6	1283.6	1272.6	1262.1	1251.6	1241.5	1230.2
5°	1437.6	1414.9	1392.3	1369.6	1347.1	1324.3	1301.5	1280.3	1259.1	1239.1	1219.3
7.5°	1538.6	1501.3	1463.9	1429.4	1394.8	1361.2	1327.6	1298.0	1268.3	1241.0	1215.3
10°	1616.2	1568.9	1521.6	1476.0	1430.4	1389.6	1348.7	1313.6	1278.6	1244.9	1217.3
12.5°	1663.7	1611.7	1559.8	1508.1	1456.4	1408.2	1360.0	1320.4	1280.7	1245.3	1219.6
15°	1692.5	1638.4	1584.2	1528.2	1472.0	1416.6	1361.1	1315.2	1269.3	1230.0	1209.5
17.5°	1708.8	1653.8	1598.9	1537.7	1476.5	1412.1	1347.7	1292.5	1237.3	1191.2	1178.5
20°	1726.6	1669.5	1612.4	1545.2	1477.9	1399.9	1321.8	1253.5	1185.0	1131.3	1127.9
22.5°	1747.4	1689.1	1630.8	1555.3	1479.9	1384.9	1290.0	1207.7	1125.2	1064.1	1070.5
25°	1774.1	1717.0	1659.9	1573.7	1487.4	1370.1	1253.0	1156.4	1060.0	997.2	1014.9
27.5°	1810.4	1755.8	1701.3	1602.3	1503.2	1360.3	1217.4	1109.7	1001.8	944.7	966.3
30°	1859.2	1806.6	1754.0	1639.3	1524.7	1355.7	1186.4	1070.5	954.6	906.6	923.4
32.5°	1917.0	1864.8	1812.7	1678.0	1543.3	1349.9	1156.4	1036.8	917.1	878.4	885.9
35°	1987.1	1937.1	1887.2	1722.1	1557.0	1339.2	1121.5	1003.6	885.8	853.6	850.5
37.5°	2105.1	2041.5	1977.8	1771.5	1565.1	1320.7	1076.2	964.6	852.9	824.8	813.4
40°	2283.6	2190.8	2098.1	1834.1	1570.2	1295.2	1020.4	918.1	815.7	790.2	772.7
42.5°	2520.2	2386.3	2252.4	1916.1	1579.8	1269.1	958.3	866.6	775.1	751.5	729.6
45°	2812.4	2631.8	2451.2	2024.1	1596.8	1244.7	892.5	812.1	731.7	707.9	686.6
47.5°	3177.7	2923.6	2669.5	2139.0	1608.5	1224.5	840.4	769.0	697.4	666.7	648.4
50°	3656.7	3273.5	2890.4	2245.7	1600.9	1202.5	804.2	740.3	676.3	635.9	614.7
52.5°	4206.5	3641.2	3075.9	2315.0	1553.9	1165.5	777.1	721.4	665.7	619.2	589.5
55°	4791.8	3967.1	3142.4	2299.7	1456.8	1104.0	751.2	707.7	664.1	620.8	576.2
57.5°	5324.2	4198.1	3072.0	2192.3	1312.5	1017.4	722.2	691.5	660.7	622.5	568.2
60°	5645.9	4255.8	2865.6	1992.3	1119.0	905.0	690.8	666.7	642.5	617.3	560.6
62.5°	5482.5	4012.8	2542.9	1722.0	901.0	770.3	639.6	623.5	607.5	604.4	551.9
65°	5155.5	3668.9	2182.2	1446.2	710.2	649.2	588.1	580.6	573.0	573.4	533.3
67.5°	4717.4	3259.6	1801.8	1176.0	550.1	532.8	515.5	519.7	523.9	522.9	500.3
70°	4190.9	2813.0	1435.1	925.9	416.7	421.7	426.6	446.2	465.9	465.9	458.4
72.5°	3563.7	2329.0	1094.3	707.9	321.4	336.4	351.4	379.1	407.0	411.6	411.7
75°	2770.2	1774.1	778.0	513.7	249.6	263.1	276.6	307.9	339.1	360.6	358.9
77.5°	1979.2	1241.7	504.1	348.1	192.2	201.3	210.6	240.9	271.2	306.8	305.8
80°	1295.4	800.0	304.6	224.3	144.1	147.9	151.7	177.3	203.0	245.4	245.3
82.5°	753.0	463.0	173.0	138.0	102.9	103.6	104.3	123.3	142.2	178.5	180.4
85°	331.3	208.3	85.3	73.8	62.2	61.9	61.5	75.3	89.2	116.1	118.8
87.5°	102.6	68.3	33.8	30.5	27.3	27.0	26.6	32.3	37.9	49.1	52.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1221.0	1211.9	1203.7	1195.5	1188.3	1181.0	1173.8	1166.6	1161.0	1155.4	1150.9
5°	1202.0	1184.7	1170.2	1155.8	1143.0	1130.2	1118.6	1107.0	1098.1	1089.1	1082.8
7.5°	1192.4	1169.4	1150.4	1131.3	1115.2	1099.1	1084.9	1070.7	1060.1	1049.5	1042.0
10°	1193.1	1168.8	1149.7	1130.7	1113.4	1096.0	1080.0	1064.1	1051.3	1038.6	1030.3
12.5°	1199.9	1180.1	1167.4	1154.8	1141.1	1127.6	1111.1	1094.6	1078.3	1062.1	1051.3
15°	1200.1	1190.5	1192.3	1194.0	1190.4	1186.9	1172.6	1158.2	1135.2	1112.0	1095.7
17.5°	1182.0	1185.4	1206.2	1227.0	1238.1	1249.1	1237.5	1226.0	1195.4	1164.8	1140.8
20°	1144.2	1160.4	1196.5	1232.7	1255.8	1278.9	1273.6	1268.2	1233.2	1198.3	1168.8
22.5°	1094.6	1118.6	1159.8	1201.1	1231.1	1261.3	1264.5	1267.7	1234.3	1200.9	1170.6
25°	1042.5	1070.2	1107.3	1144.4	1174.0	1203.7	1214.7	1225.7	1198.3	1171.1	1144.0
27.5°	992.9	1019.7	1050.1	1080.6	1104.3	1128.1	1140.4	1152.7	1133.2	1113.8	1092.9
30°	944.6	965.9	991.2	1016.5	1036.2	1056.0	1065.9	1075.9	1061.1	1046.2	1031.3
32.5°	898.5	911.0	931.2	951.4	970.4	989.2	1000.4	1011.6	997.9	984.2	972.2
35°	854.0	857.5	872.9	888.3	906.9	925.7	939.0	952.4	942.7	933.0	921.9
37.5°	809.6	805.8	816.8	827.9	846.5	865.2	881.7	898.2	893.8	889.3	879.1
40°	764.1	755.5	763.5	771.4	789.5	807.5	826.5	845.5	846.6	847.7	839.1
42.5°	718.2	706.7	713.2	719.8	736.9	754.0	774.5	795.0	800.4	806.0	798.7
45°	675.5	664.4	669.8	675.4	691.6	707.9	729.1	750.4	758.2	766.1	759.5
47.5°	639.0	629.7	634.9	639.9	655.8	671.7	692.7	713.6	722.7	731.7	727.2
50°	606.4	598.1	606.1	614.2	629.1	644.1	662.9	681.7	693.3	705.0	704.7
52.5°	581.3	573.2	585.2	597.3	611.0	624.6	642.2	659.7	673.5	687.3	689.8
55°	563.1	550.2	567.3	584.5	599.2	614.1	629.3	644.7	659.3	673.9	677.4
57.5°	549.3	530.3	548.8	567.2	584.6	601.9	617.0	632.3	647.1	661.7	665.2
60°	536.2	511.6	527.8	543.9	563.9	583.8	599.2	614.7	629.5	644.2	648.0
62.5°	521.2	490.7	500.9	511.2	534.3	557.6	574.1	590.6	604.1	617.7	621.4
65°	500.8	468.2	472.2	476.1	501.0	525.9	541.7	557.4	569.4	581.3	585.1
67.5°	473.2	446.1	444.8	443.6	466.7	489.6	504.6	519.5	529.8	540.1	543.8
70°	439.1	419.8	415.6	411.3	431.5	451.7	464.6	477.5	486.8	496.1	499.7
72.5°	398.5	385.3	379.0	372.8	388.8	404.7	416.3	427.9	437.1	446.1	450.3
75°	348.7	338.5	332.4	326.4	338.2	350.0	360.6	371.2	379.5	387.8	392.2
77.5°	297.7	289.5	283.3	277.3	286.9	296.4	305.6	314.6	323.3	332.0	336.1
80°	238.5	231.6	226.5	221.3	229.4	237.3	245.0	252.6	259.2	265.8	271.2
82.5°	177.1	173.7	170.1	166.5	165.8	165.1	162.5	159.8	173.9	188.1	197.3
85°	115.2	111.6	107.5	103.5	100.0	96.6	89.2	81.8	95.0	108.2	119.7
87.5°	51.0	49.6	48.9	48.1	48.0	47.8	42.1	36.5	42.0	47.6	52.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1146.4	1142.8	1139.3	1136.0	1132.7	1128.6	1132.7	1136.0	1139.3	1142.8	1146.4
5°	1076.6	1072.1	1067.7	1064.3	1060.9	1057.6	1060.9	1064.3	1067.7	1072.1	1076.6
7.5°	1034.6	1029.5	1024.4	1021.4	1018.3	1016.1	1018.3	1021.4	1024.4	1029.5	1034.6
10°	1021.9	1017.1	1012.3	1009.7	1007.1	1006.0	1007.1	1009.7	1012.3	1017.1	1021.9
12.5°	1040.7	1035.2	1029.9	1027.8	1025.5	1025.1	1025.5	1027.8	1029.9	1035.2	1040.7
15°	1079.4	1071.9	1064.5	1061.6	1058.7	1058.5	1058.7	1061.6	1064.5	1071.9	1079.4
17.5°	1116.7	1105.7	1094.6	1090.9	1087.2	1086.7	1087.2	1090.9	1094.6	1105.7	1116.7
20°	1139.4	1125.2	1111.0	1106.5	1102.0	1100.5	1102.0	1106.5	1111.0	1125.2	1139.4
22.5°	1140.2	1125.2	1110.3	1105.3	1100.2	1098.1	1100.2	1105.3	1110.3	1125.2	1140.2
25°	1117.1	1104.1	1091.2	1086.5	1081.8	1079.0	1081.8	1086.5	1091.2	1104.1	1117.1
27.5°	1071.8	1063.2	1054.5	1052.4	1050.2	1049.5	1050.2	1052.4	1054.5	1063.2	1071.8
30°	1016.2	1011.8	1007.3	1007.3	1007.3	1008.0	1007.3	1007.3	1007.3	1011.8	1016.2
32.5°	960.2	957.4	954.5	954.8	955.3	956.0	955.3	954.8	954.5	957.4	960.2
35°	910.9	906.4	902.1	901.1	900.2	899.6	900.2	901.1	902.1	906.4	910.9
37.5°	868.9	860.9	852.8	848.6	844.4	841.9	844.4	848.6	852.8	860.9	868.9
40°	830.5	818.7	807.1	799.1	791.3	786.6	791.3	799.1	807.1	818.7	830.5
42.5°	791.4	776.8	762.3	750.8	739.3	731.7	739.3	750.8	762.3	776.8	791.4
45°	753.0	736.4	719.8	706.2	692.8	684.1	692.8	706.2	719.8	736.4	753.0
47.5°	722.6	707.9	693.0	680.5	668.1	659.7	668.1	680.5	693.0	707.9	722.6
50°	704.5	692.7	680.8	669.3	657.7	649.7	657.7	669.3	680.8	692.7	704.5
52.5°	692.3	682.6	673.0	662.7	652.3	644.9	652.3	662.7	673.0	682.6	692.3
55°	680.8	672.4	664.0	655.0	645.9	639.2	645.9	655.0	664.0	672.4	680.8
57.5°	668.7	660.2	651.7	642.8	633.8	626.8	633.8	642.8	651.7	660.2	668.7
60°	651.9	643.6	635.3	626.1	616.8	609.7	616.8	626.1	635.3	643.6	651.9
62.5°	625.0	617.6	610.1	600.3	590.6	582.0	590.6	600.3	610.1	617.6	625.0
65°	588.8	581.6	574.3	564.9	555.6	548.1	555.6	564.9	574.3	581.6	588.8
67.5°	547.3	540.8	534.2	525.4	516.6	509.9	516.6	525.4	534.2	540.8	547.3
70°	503.2	497.7	492.4	484.0	475.6	468.0	475.6	484.0	492.4	497.7	503.2
72.5°	454.5	450.1	445.6	437.6	429.6	422.2	429.6	437.6	445.6	450.1	454.5
75°	396.5	394.3	392.2	385.4	378.6	371.6	378.6	385.4	392.2	394.3	396.5
77.5°	340.2	337.1	334.0	327.3	320.5	314.9	320.5	327.3	334.0	337.1	340.2
80°	276.6	275.3	274.1	265.0	255.7	245.2	255.7	265.0	274.1	275.3	276.6
82.5°	206.5	206.0	205.4	197.7	189.9	183.2	189.9	197.7	205.4	206.0	206.5
85°	131.2	130.3	129.3	123.3	117.3	111.1	117.3	123.3	129.3	130.3	131.2
87.5°	56.9	55.8	54.4	51.5	48.3	45.3	48.3	51.5	54.4	55.8	56.9
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°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1150.9	1155.4	1161.0	1166.6	1173.8	1181.0	1188.3	1195.5	1203.7	1211.9	1221.0
5°	1082.8	1089.1	1098.1	1107.0	1118.6	1130.2	1143.0	1155.8	1170.2	1184.7	1202.0
7.5°	1042.0	1049.5	1060.1	1070.7	1084.9	1099.1	1115.2	1131.3	1150.4	1169.4	1192.4
10°	1030.3	1038.6	1051.3	1064.1	1080.0	1096.0	1113.4	1130.7	1149.7	1168.8	1193.1
12.5°	1051.3	1062.1	1078.3	1094.6	1111.1	1127.6	1141.1	1154.8	1167.4	1180.1	1199.9
15°	1095.7	1112.0	1135.2	1158.2	1172.6	1186.9	1190.4	1194.0	1192.3	1190.5	1200.1
17.5°	1140.8	1164.8	1195.4	1226.0	1237.5	1249.1	1238.1	1227.0	1206.2	1185.4	1182.0
20°	1168.8	1198.3	1233.2	1268.2	1273.6	1278.9	1255.8	1232.7	1196.5	1160.4	1144.2
22.5°	1170.6	1200.9	1234.3	1267.7	1264.5	1261.3	1231.1	1201.1	1159.8	1118.6	1094.6
25°	1144.0	1171.1	1198.3	1225.7	1214.7	1203.7	1174.0	1144.4	1107.3	1070.2	1042.5
27.5°	1092.9	1113.8	1133.2	1152.7	1140.4	1128.1	1104.3	1080.6	1050.1	1019.7	992.9
30°	1031.3	1046.2	1061.1	1075.9	1065.9	1056.0	1036.2	1016.5	991.2	965.9	944.6
32.5°	972.2	984.2	997.9	1011.6	1000.4	989.2	970.4	951.4	931.2	911.0	898.5
35°	921.9	933.0	942.7	952.4	939.0	925.7	906.9	888.3	872.9	857.5	854.0
37.5°	879.1	889.3	893.8	898.2	881.7	865.2	846.5	827.9	816.8	805.8	809.6
40°	839.1	847.7	846.6	845.5	826.5	807.5	789.5	771.4	763.5	755.5	764.1
42.5°	798.7	806.0	800.4	795.0	774.5	754.0	736.9	719.8	713.2	706.7	718.2
45°	759.5	766.1	758.2	750.4	729.1	707.9	691.6	675.4	669.8	664.4	675.5
47.5°	727.2	731.7	722.7	713.6	692.7	671.7	655.8	639.9	634.9	629.7	639.0
50°	704.7	705.0	693.3	681.7	662.9	644.1	629.1	614.2	606.1	598.1	606.4
52.5°	689.8	687.3	673.5	659.7	642.2	624.6	611.0	597.3	585.2	573.2	581.3
55°	677.4	673.9	659.3	644.7	629.3	614.1	599.2	584.5	567.3	550.2	563.1
57.5°	665.2	661.7	647.1	632.3	617.0	601.9	584.6	567.2	548.8	530.3	549.3
60°	648.0	644.2	629.5	614.7	599.2	583.8	563.9	543.9	527.8	511.6	536.2
62.5°	621.4	617.7	604.1	590.6	574.1	557.6	534.3	511.2	500.9	490.7	521.2
65°	585.1	581.3	569.4	557.4	541.7	525.9	501.0	476.1	472.2	468.2	500.8
67.5°	543.8	540.1	529.8	519.5	504.6	489.6	466.7	443.6	444.8	446.1	473.2
70°	499.7	496.1	486.8	477.5	464.6	451.7	431.5	411.3	415.6	419.8	439.1
72.5°	450.3	446.1	437.1	427.9	416.3	404.7	388.8	372.8	379.0	385.3	398.5
75°	392.2	387.8	379.5	371.2	360.6	350.0	338.2	326.4	332.4	338.5	348.7
77.5°	336.1	332.0	323.3	314.6	305.6	296.4	286.9	277.3	283.3	289.5	297.7
80°	271.2	265.8	259.2	252.6	245.0	237.3	229.4	221.3	226.5	231.6	238.5
82.5°	197.3	188.1	173.9	159.8	162.5	165.1	165.8	166.5	170.1	173.7	177.1
85°	119.7	108.2	95.0	81.8	89.2	96.6	100.0	103.5	107.5	111.6	115.2
87.5°	52.3	47.6	42.0	36.5	42.1	47.8	48.0	48.1	48.9	49.6	51.0
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1230.2	1241.5	1251.6	1262.1	1272.6	1283.6	1294.6	1305.4	1316.4	1326.7	1336.9
5°	1219.3	1239.1	1259.1	1280.3	1301.5	1324.3	1347.1	1369.6	1392.3	1414.9	1437.6
7.5°	1215.3	1241.0	1268.3	1298.0	1327.6	1361.2	1394.8	1429.4	1463.9	1501.3	1538.6
10°	1217.3	1244.9	1278.6	1313.6	1348.7	1389.6	1430.4	1476.0	1521.6	1568.9	1616.2
12.5°	1219.6	1245.3	1280.7	1320.4	1360.0	1408.2	1456.4	1508.1	1559.8	1611.7	1663.7
15°	1209.5	1230.0	1269.3	1315.2	1361.1	1416.6	1472.0	1528.2	1584.2	1638.4	1692.5
17.5°	1178.5	1191.2	1237.3	1292.5	1347.7	1412.1	1476.5	1537.7	1598.9	1653.8	1708.8
20°	1127.9	1131.3	1185.0	1253.5	1321.8	1399.9	1477.9	1545.2	1612.4	1669.5	1726.6
22.5°	1070.5	1064.1	1125.2	1207.7	1290.0	1384.9	1479.9	1555.3	1630.8	1689.1	1747.4
25°	1014.9	997.2	1060.0	1156.4	1253.0	1370.1	1487.4	1573.7	1659.9	1717.0	1774.1
27.5°	966.3	944.7	1001.8	1109.7	1217.4	1360.3	1503.2	1602.3	1701.3	1755.8	1810.4
30°	923.4	906.6	954.6	1070.5	1186.4	1355.7	1524.7	1639.3	1754.0	1806.6	1859.2
32.5°	885.9	878.4	917.1	1036.8	1156.4	1349.9	1543.3	1678.0	1812.7	1864.8	1917.0
35°	850.5	853.6	885.8	1003.6	1121.5	1339.2	1557.0	1722.1	1887.2	1937.1	1987.1
37.5°	813.4	824.8	852.9	964.6	1076.2	1320.7	1565.1	1771.5	1977.8	2041.5	2105.1
40°	772.7	790.2	815.7	918.1	1020.4	1295.2	1570.2	1834.1	2098.1	2190.8	2283.6
42.5°	729.6	751.5	775.1	866.6	958.3	1269.1	1579.8	1916.1	2252.4	2386.3	2520.2
45°	686.6	707.9	731.7	812.1	892.5	1244.7	1596.8	2024.1	2451.2	2631.8	2812.4
47.5°	648.4	666.7	697.4	769.0	840.4	1224.5	1608.5	2139.0	2669.5	2923.6	3177.7
50°	614.7	635.9	676.3	740.3	804.2	1202.5	1600.9	2245.7	2890.4	3273.5	3656.7
52.5°	589.5	619.2	665.7	721.4	777.1	1165.5	1553.9	2315.0	3075.9	3641.2	4206.5
55°	576.2	620.8	664.1	707.7	751.2	1104.0	1456.8	2299.7	3142.4	3967.1	4791.8
57.5°	568.2	622.5	660.7	691.5	722.2	1017.4	1312.5	2192.3	3072.0	4198.1	5324.2
60°	560.6	617.3	642.5	666.7	690.8	905.0	1119.0	1992.3	2865.6	4255.8	5645.9
62.5°	551.9	604.4	607.5	623.5	639.6	770.3	901.0	1722.0	2542.9	4012.8	5482.5
65°	533.3	573.4	573.0	580.6	588.1	649.2	710.2	1446.2	2182.2	3668.9	5155.5
67.5°	500.3	522.9	523.9	519.7	515.5	532.8	550.1	1176.0	1801.8	3259.6	4717.4
70°	458.4	465.9	465.9	446.2	426.6	421.7	416.7	925.9	1435.1	2813.0	4190.9
72.5°	411.7	411.6	407.0	379.1	351.4	336.4	321.4	707.9	1094.3	2329.0	3563.7
75°	358.9	360.6	339.1	307.9	276.6	263.1	249.6	513.7	778.0	1774.1	2770.2
77.5°	305.8	306.8	271.2	240.9	210.6	201.3	192.2	348.1	504.1	1241.7	1979.2
80°	245.3	245.4	203.0	177.3	151.7	147.9	144.1	224.3	304.6	800.0	1295.4
82.5°	180.4	178.5	142.2	123.3	104.3	103.6	102.9	138.0	173.0	463.0	753.0
85°	118.8	116.1	89.2	75.3	61.5	61.9	62.2	73.8	85.3	208.3	331.3
87.5°	52.5	49.1	37.9	32.3	26.6	27.0	27.3	30.5	33.8	68.3	102.6
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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CATALOG NUMBER: NAV-SB1D-827-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1341.9	1347.1	1354.2	1361.4	1365.7	1370.0	1372.2	1374.3	1373.4	1374.3	1372.2
5°	1455.2	1473.0	1490.6	1508.2	1517.7	1527.2	1533.0	1538.8	1543.2	1538.8	1533.0
7.5°	1567.4	1596.2	1622.2	1648.1	1663.7	1679.3	1687.7	1696.1	1700.2	1696.1	1687.7
10°	1650.2	1684.3	1714.7	1745.1	1763.5	1781.9	1790.1	1798.2	1801.2	1798.2	1790.1
12.5°	1700.6	1737.5	1764.9	1792.3	1805.6	1819.1	1823.5	1828.0	1828.5	1828.0	1823.5
15°	1724.4	1756.2	1773.5	1790.7	1791.2	1791.6	1786.9	1782.1	1776.4	1782.1	1786.9
17.5°	1730.2	1751.7	1752.1	1752.3	1733.1	1713.7	1696.1	1678.3	1665.8	1678.3	1696.1
20°	1734.1	1741.7	1719.0	1696.4	1653.6	1611.0	1579.9	1548.9	1529.8	1548.9	1579.9
22.5°	1737.6	1727.7	1680.8	1633.8	1571.1	1508.4	1469.5	1430.7	1409.6	1430.7	1469.5
25°	1743.1	1712.1	1640.8	1569.6	1493.3	1417.2	1376.4	1335.6	1315.7	1335.6	1376.4
27.5°	1754.9	1699.4	1605.0	1510.6	1426.2	1341.8	1301.6	1261.5	1242.7	1261.5	1301.6
30°	1776.5	1693.9	1577.8	1461.5	1373.6	1285.6	1248.3	1211.1	1193.5	1211.1	1248.3
32.5°	1803.8	1690.6	1559.1	1427.6	1345.0	1262.3	1233.1	1203.8	1191.2	1203.8	1233.1
35°	1848.6	1710.1	1573.1	1436.1	1378.6	1321.3	1314.5	1307.6	1306.6	1307.6	1314.5
37.5°	1942.2	1779.2	1654.8	1530.2	1526.5	1522.7	1554.0	1585.2	1601.4	1585.2	1554.0
40°	2106.4	1929.2	1836.5	1743.9	1809.3	1874.6	1950.5	2026.3	2064.1	2026.3	1950.5
42.5°	2344.3	2168.5	2115.2	2061.8	2204.4	2346.9	2484.9	2622.8	2703.8	2622.8	2484.9
45°	2654.4	2496.4	2472.9	2449.3	2677.7	2906.1	3132.8	3359.5	3497.1	3359.5	3132.8
47.5°	3024.1	2870.4	2865.6	2860.9	3190.3	3519.6	3851.5	4183.3	4378.2	4183.3	3851.5
50°	3466.9	3277.1	3278.0	3278.8	3703.3	4127.9	4566.0	5003.9	5268.8	5003.9	4566.0
52.5°	3976.6	3746.9	3723.6	3700.4	4207.5	4714.6	5256.6	5798.5	6116.1	5798.5	5256.6
55°	4564.7	4337.7	4247.1	4156.5	4720.9	5285.3	5931.5	6577.5	6955.1	6577.5	5931.5
57.5°	5200.5	5076.8	4895.1	4713.5	5283.4	5853.3	6585.1	7317.0	7785.2	7317.0	6585.1
60°	5838.0	6030.1	5804.5	5578.8	6118.1	6657.5	7441.0	8224.6	8730.6	8224.6	7441.0
62.5°	6007.3	6532.1	6506.7	6481.2	6975.2	7469.4	8214.9	8960.3	9428.1	8960.3	8214.9
65°	5648.1	6140.6	6238.0	6335.4	6963.3	7591.3	8314.2	9037.0	9435.2	9037.0	8314.2
67.5°	5185.8	5654.3	5699.9	5745.6	6399.8	7053.9	7780.0	8506.0	8818.0	8506.0	7780.0
70°	4700.4	5210.1	5230.5	5251.0	5835.9	6420.9	7045.7	7670.5	7843.8	7670.5	7045.7
72.5°	4148.4	4733.1	4747.8	4762.5	5220.1	5677.9	6145.8	6613.7	6631.2	6613.7	6145.8
75°	3375.3	3980.5	4034.8	4089.1	4445.2	4801.3	5130.7	5460.1	5371.8	5460.1	5130.7
77.5°	2544.2	3109.0	3186.8	3264.5	3535.3	3806.0	4039.6	4273.2	4121.5	4273.2	4039.6
80°	1770.7	2245.9	2342.5	2439.2	2643.6	2848.0	2970.7	3093.3	2849.3	3093.3	2970.7
82.5°	1077.9	1402.8	1510.8	1618.8	1759.5	1900.2	1951.4	2002.5	1810.8	2002.5	1951.4
85°	503.8	676.2	768.0	859.9	975.5	1091.1	1120.1	1149.1	995.6	1149.1	1120.1
87.5°	160.5	218.5	269.7	320.9	378.7	436.5	439.1	441.5	370.6	441.5	439.1
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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CATALOG NUMBER: NAV-SB1D-827-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1370.0	1365.7	1361.4	1354.2	1347.1	1341.9	1336.9
5°	1527.2	1517.7	1508.2	1490.6	1473.0	1455.2	1437.6
7.5°	1679.3	1663.7	1648.1	1622.2	1596.2	1567.4	1538.6
10°	1781.9	1763.5	1745.1	1714.7	1684.3	1650.2	1616.2
12.5°	1819.1	1805.6	1792.3	1764.9	1737.5	1700.6	1663.7
15°	1791.6	1791.2	1790.7	1773.5	1756.2	1724.4	1692.5
17.5°	1713.7	1733.1	1752.3	1752.1	1751.7	1730.2	1708.8
20°	1611.0	1653.6	1696.4	1719.0	1741.7	1734.1	1726.6
22.5°	1508.4	1571.1	1633.8	1680.8	1727.7	1737.6	1747.4
25°	1417.2	1493.3	1569.6	1640.8	1712.1	1743.1	1774.1
27.5°	1341.8	1426.2	1510.6	1605.0	1699.4	1754.9	1810.4
30°	1285.6	1373.6	1461.5	1577.8	1693.9	1776.5	1859.2
32.5°	1262.3	1345.0	1427.6	1559.1	1690.6	1803.8	1917.0
35°	1321.3	1378.6	1436.1	1573.1	1710.1	1848.6	1987.1
37.5°	1522.7	1526.5	1530.2	1654.8	1779.2	1942.2	2105.1
40°	1874.6	1809.3	1743.9	1836.5	1929.2	2106.4	2283.6
42.5°	2346.9	2204.4	2061.8	2115.2	2168.5	2344.3	2520.2
45°	2906.1	2677.7	2449.3	2472.9	2496.4	2654.4	2812.4
47.5°	3519.6	3190.3	2860.9	2865.6	2870.4	3024.1	3177.7
50°	4127.9	3703.3	3278.8	3278.0	3277.1	3466.9	3656.7
52.5°	4714.6	4207.5	3700.4	3723.6	3746.9	3976.6	4206.5
55°	5285.3	4720.9	4156.5	4247.1	4337.7	4564.7	4791.8
57.5°	5853.3	5283.4	4713.5	4895.1	5076.8	5200.5	5324.2
60°	6657.5	6118.1	5578.8	5804.5	6030.1	5838.0	5645.9
62.5°	7469.4	6975.2	6481.2	6506.7	6532.1	6007.3	5482.5
65°	7591.3	6963.3	6335.4	6238.0	6140.6	5648.1	5155.5
67.5°	7053.9	6399.8	5745.6	5699.9	5654.3	5185.8	4717.4
70°	6420.9	5835.9	5251.0	5230.5	5210.1	4700.4	4190.9
72.5°	5677.9	5220.1	4762.5	4747.8	4733.1	4148.4	3563.7
75°	4801.3	4445.2	4089.1	4034.8	3980.5	3375.3	2770.2
77.5°	3806.0	3535.3	3264.5	3186.8	3109.0	2544.2	1979.2
80°	2848.0	2643.6	2439.2	2342.5	2245.9	1770.7	1295.4
82.5°	1900.2	1759.5	1618.8	1510.8	1402.8	1077.9	753.0
85°	1091.1	975.5	859.9	768.0	676.2	503.8	331.3
87.5°	436.5	378.7	320.9	269.7	218.5	160.5	102.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)