

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: P961571

Luminaire Tested: **NAV-SB2A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8166.2 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 57.3
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: 24 FT



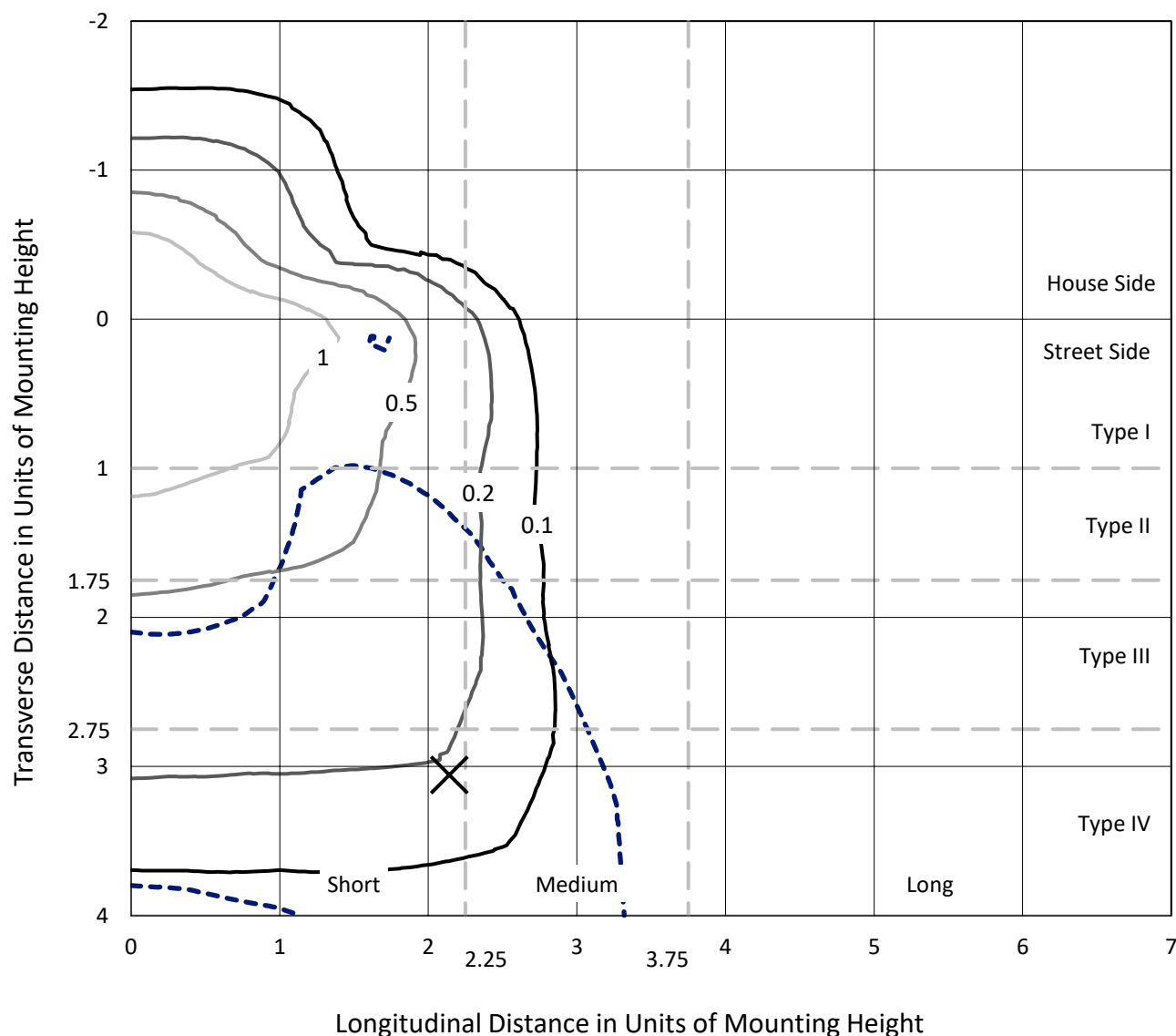
REPORT NUMBER: P961571

CATALOG NUMBER: NAV-SB2A-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

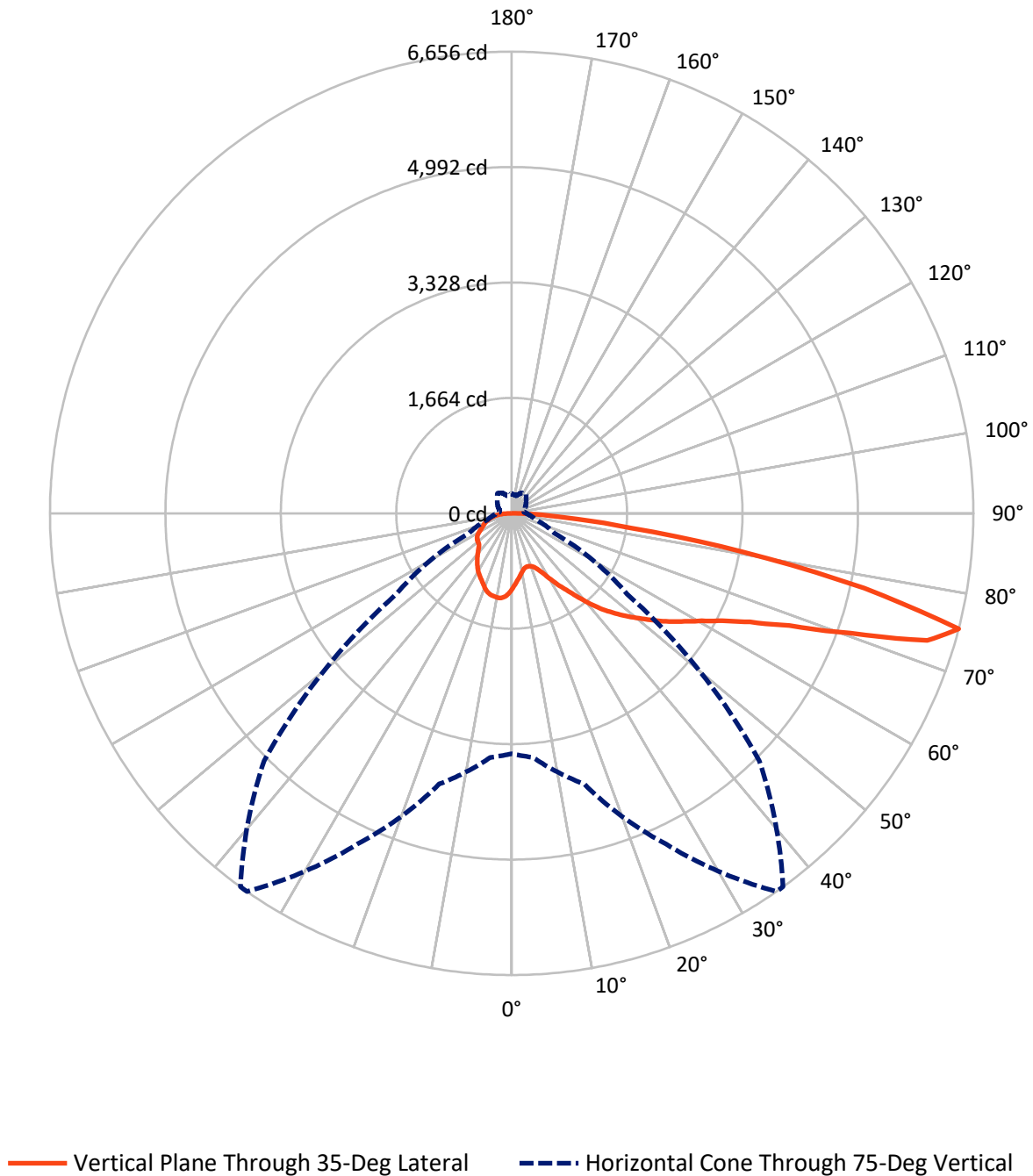


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc

Type IV - Short - N/A

REPORT NUMBER: P961571
CATALOG NUMBER: NAV-SB2A-830-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P961571

CATALOG NUMBER: NAV-SB2A-830-U-T4FT

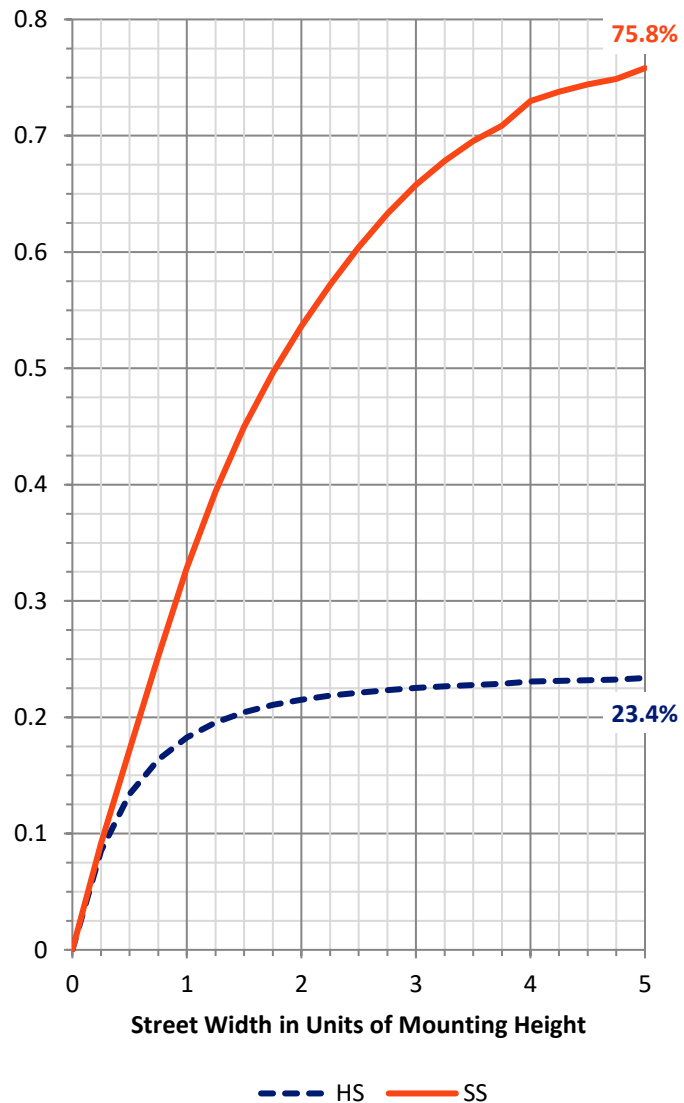
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.3	0.0	1943.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6222.8	0.0	6222.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	8166.2	0.0	8166.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	1.3
10°-20°	297.2	3.6
20°-30°	499.0	6.1
30°-40°	775.6	9.5
40°-50°	1151.2	14.1
50°-60°	1589.3	19.5
60°-70°	1928.2	23.6
70°-80°	1593.5	19.5
80°-90°	229.2	2.8
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°	8166.2	100.0
0°-180°	8166.2	100.0

Coefficient of Utilization



REPORT NUMBER: P961571

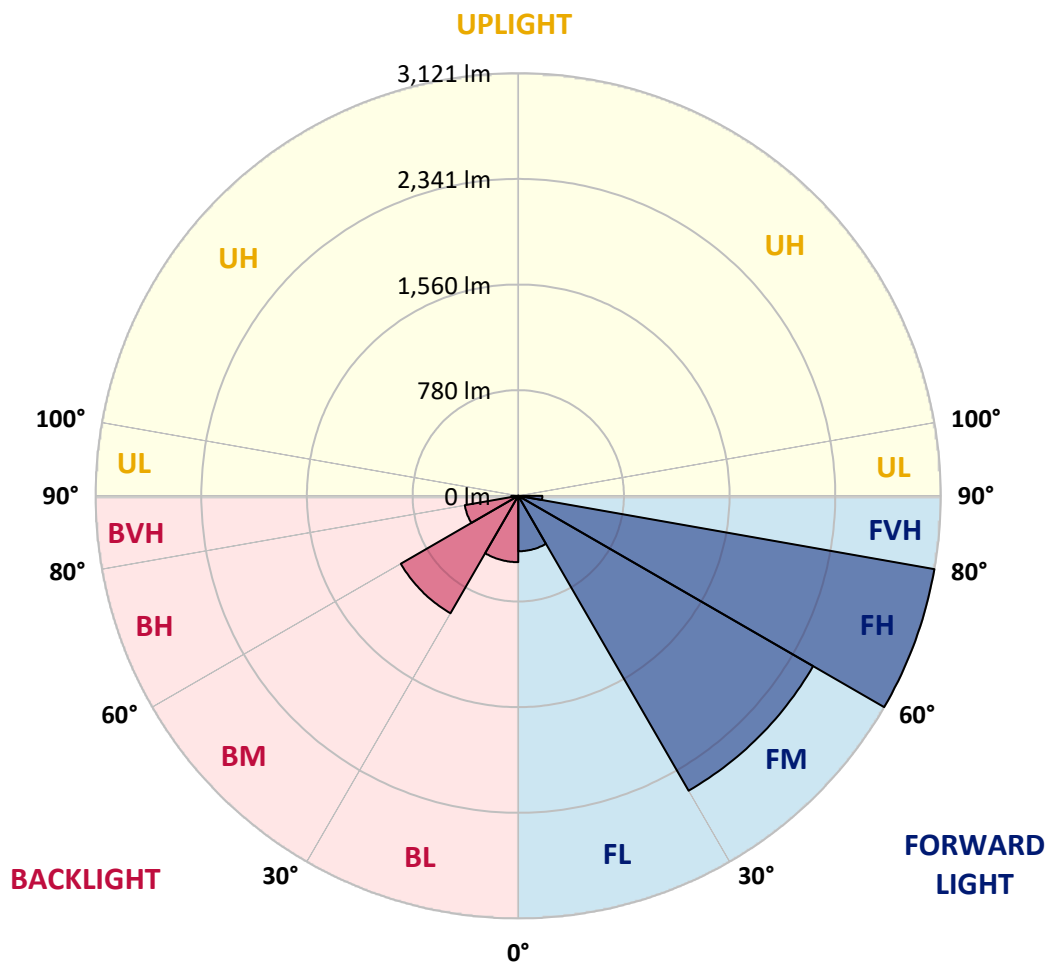
CATALOG NUMBER: NAV-SB2A-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.5	5.0			
FM	(30°-60°)	2514.7	30.8			
FH	(60°-80°)	3121.0	38.2			G2/5000
FVH	(80°-90°)	177.6	2.2			G2/225
BL	(0°-30°)	489.7	6.0	B1/500		
BM	(30°-60°)	1001.3	12.3	B2/2500		
BH	(60°-80°)	400.7	4.9	B1/500		G1/500
BVH	(80°-90°)	51.6	0.6			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 IV Short



REPORT NUMBER: P961571

CATALOG NUMBER: NAV-SB2A-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2
2.5°	1003.5	1009.6	1012.3	1011.0	1017.5	1016.7	1025.9	1037.4	1053.3	1068.8	1091.3
5°	926.2	932.9	938.6	943.8	956.6	960.6	975.2	997.2	1026.4	1056.0	1093.1
7.5°	854.2	860.0	868.8	878.5	900.2	904.2	928.3	962.8	1003.5	1046.7	1097.9
10°	795.5	801.2	810.6	821.5	848.5	853.3	884.3	930.2	983.2	1037.9	1103.2
12.5°	770.4	772.1	777.4	788.4	811.8	815.0	848.9	901.5	963.3	1031.3	1111.2
15°	769.1	772.5	773.0	778.7	798.2	799.5	830.9	882.9	950.9	1029.9	1123.1
17.5°	782.3	784.9	780.9	784.4	800.8	803.0	827.7	874.1	946.9	1035.7	1143.4
20°	817.5	819.8	807.9	803.0	815.0	816.7	841.0	879.9	950.9	1047.6	1171.2
22.5°	892.7	894.0	864.8	844.9	845.8	846.8	867.9	903.2	966.4	1069.2	1206.5
25°	1009.6	1008.7	962.4	923.9	901.9	897.1	911.1	941.2	992.4	1097.9	1251.9
27.5°	1146.5	1139.8	1093.5	1036.1	988.0	980.9	977.8	990.7	1029.5	1135.9	1307.6
30°	1301.0	1294.8	1245.0	1169.8	1103.2	1091.7	1062.6	1056.0	1084.7	1187.6	1384.9
32.5°	1470.5	1466.6	1406.9	1316.0	1226.8	1213.6	1164.6	1146.9	1169.4	1265.7	1492.6
35°	1612.6	1609.1	1559.6	1466.1	1357.0	1340.7	1290.8	1271.0	1282.5	1365.9	1633.4
37.5°	1741.2	1739.3	1697.0	1623.3	1510.6	1490.8	1434.8	1428.1	1425.9	1497.8	1804.2
40°	1860.3	1855.9	1811.8	1772.9	1689.5	1671.4	1622.0	1616.2	1599.4	1660.3	1997.6
42.5°	1992.3	1980.8	1916.9	1898.7	1876.2	1861.2	1831.6	1832.5	1795.4	1843.6	2202.4
45°	2100.0	2093.4	2027.7	2017.0	2041.3	2035.1	2060.8	2067.3	1995.4	2035.5	2415.2
47.5°	2215.6	2209.5	2153.8	2146.4	2212.2	2213.9	2304.4	2306.7	2190.5	2235.1	2628.4
50°	2358.3	2349.4	2294.3	2303.6	2377.3	2383.8	2549.4	2534.4	2370.2	2437.8	2839.9
52.5°	2452.3	2457.6	2445.6	2460.7	2561.4	2567.5	2790.5	2752.0	2548.1	2637.7	3047.4
55°	2521.6	2532.3	2569.3	2603.7	2755.6	2761.8	3017.8	2959.1	2695.5	2823.2	3242.5
57.5°	2610.8	2595.8	2665.1	2732.2	2940.1	2956.4	3239.0	3158.6	2826.2	2983.0	3376.2
60°	2738.8	2728.2	2782.1	2881.4	3146.7	3172.8	3473.0	3338.3	2922.1	3109.6	3402.3
62.5°	2998.4	2971.9	2980.3	3068.1	3407.2	3441.6	3736.9	3495.0	2969.7	3159.0	3262.8
65°	3386.4	3341.0	3298.6	3359.5	3774.0	3808.1	4034.9	3618.2	2952.0	3063.3	2892.4
67.5°	3875.1	3830.1	3778.0	3835.4	4314.4	4341.3	4402.7	3687.5	2813.0	2694.2	2237.8
70°	4278.1	4261.4	4323.7	4559.8	5177.5	5178.3	4874.2	3630.1	2432.0	1910.2	1294.8
72.5°	4224.7	4214.6	4542.6	5272.8	6265.2	6241.8	5320.5	3195.7	1638.3	861.7	485.1
75°	3465.9	3531.6	4039.8	5260.0	6655.8	6652.8	5047.2	2031.5	677.6	357.1	250.7
77.5°	1858.5	1962.8	2622.7	3883.5	5195.9	5274.1	3548.4	710.7	290.9	228.7	173.5
80°	606.1	697.1	1045.4	1977.3	3376.2	3361.7	1520.8	279.0	199.1	162.1	120.0
82.5°	257.4	267.9	467.1	933.7	1732.8	1705.8	484.3	160.2	139.9	110.8	74.2
85°	100.7	112.5	206.1	431.7	750.5	734.1	174.9	79.4	89.6	72.4	44.2
87.5°	33.1	40.2	73.7	147.9	233.5	225.2	42.8	27.4	38.8	33.1	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961571

CATALOG NUMBER: NAV-SB2A-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2
2.5°	1097.5	1104.5	1112.9	1125.2	1135.9	1144.7	1153.9	1159.7	1161.9	1168.5	1168.1
5°	1105.5	1120.8	1141.6	1161.9	1181.8	1193.7	1204.3	1209.6	1214.4	1218.0	1218.8
7.5°	1118.7	1138.6	1171.2	1197.7	1214.4	1224.2	1231.2	1229.5	1231.2	1232.2	1233.5
10°	1130.2	1157.9	1196.8	1222.0	1234.7	1235.2	1233.5	1227.2	1224.2	1224.6	1225.5
12.5°	1143.8	1174.8	1216.7	1237.9	1241.4	1231.6	1224.2	1213.6	1209.6	1207.9	1206.9
15°	1162.4	1197.7	1238.3	1246.2	1237.4	1225.1	1212.3	1195.0	1186.2	1179.2	1181.3
17.5°	1184.9	1223.7	1255.1	1249.4	1230.3	1210.0	1189.3	1163.3	1145.1	1137.6	1138.1
20°	1216.3	1251.1	1267.8	1242.7	1214.0	1183.2	1147.8	1116.0	1099.2	1091.7	1090.8
22.5°	1254.2	1287.7	1280.2	1231.2	1190.6	1141.1	1097.1	1073.6	1065.3	1060.0	1060.9
25°	1299.7	1328.4	1289.0	1214.4	1152.2	1085.6	1051.5	1044.1	1040.1	1036.1	1036.1
27.5°	1358.8	1374.2	1295.7	1189.7	1092.1	1026.4	1014.0	1015.4	1014.0	1007.4	1008.7
30°	1436.9	1433.9	1301.9	1149.5	1023.3	972.9	973.9	979.6	980.5	976.1	978.3
32.5°	1539.9	1508.5	1304.9	1097.5	957.6	926.2	927.1	933.3	937.7	930.2	933.7
35°	1664.3	1595.4	1300.1	1032.2	906.7	881.6	874.9	876.8	878.0	871.0	875.9
37.5°	1809.5	1693.0	1278.5	959.7	864.8	837.9	823.8	811.8	804.8	798.2	802.6
40°	1968.9	1799.4	1238.7	889.1	818.1	791.5	770.4	747.8	724.0	715.1	719.1
42.5°	2135.8	1908.9	1190.6	821.5	764.1	742.5	720.1	687.4	651.6	633.4	635.7
45°	2308.8	2021.0	1143.4	754.9	709.0	699.7	673.6	634.4	595.5	572.6	570.8
47.5°	2478.3	2127.0	1074.1	687.8	657.3	667.5	647.2	611.0	567.7	531.6	527.6
50°	2640.4	2226.3	960.6	619.8	615.4	657.7	638.4	586.3	536.8	490.5	486.5
52.5°	2801.0	2306.7	815.4	558.0	592.9	655.1	626.9	569.5	509.0	460.4	455.1
55°	2937.4	2348.2	675.5	505.0	560.2	632.6	613.2	549.6	469.8	418.1	413.7
57.5°	3015.1	2314.6	558.9	452.9	515.2	595.5	589.8	507.3	422.9	383.1	377.9
60°	2981.6	2178.6	463.5	407.4	472.3	555.3	549.2	465.2	387.1	349.6	344.3
62.5°	2796.6	1919.5	388.1	367.8	433.5	514.3	508.6	433.1	359.8	323.6	317.9
65°	2424.0	1561.5	329.3	334.7	394.2	464.8	473.2	406.1	338.1	302.9	297.1
67.5°	1848.8	1131.0	283.4	306.0	355.8	416.3	440.5	386.7	320.1	286.5	281.3
70°	1053.8	642.4	244.6	278.1	321.8	371.3	415.4	371.3	300.6	272.9	269.3
72.5°	399.5	294.9	211.5	250.3	289.2	333.3	387.6	347.0	278.1	257.4	253.8
75°	213.2	179.7	177.9	217.6	251.6	296.2	352.7	323.2	261.4	271.9	280.7
77.5°	145.2	127.1	148.7	186.3	210.5	255.1	315.6	287.0	226.4	225.6	208.0
80°	100.7	90.1	121.0	150.1	162.9	214.5	275.5	246.3	184.5	172.2	164.6
82.5°	60.5	58.7	90.5	112.1	115.2	165.5	228.3	206.6	151.0	131.5	132.4
85°	33.1	34.8	57.8	65.8	67.1	115.6	178.8	159.8	116.1	97.6	98.4
87.5°	9.2	11.9	21.2	26.0	32.2	60.1	106.4	94.9	58.3	40.6	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)