

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: P969966

Luminaire Tested: **NAV-SB6A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24022.9 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

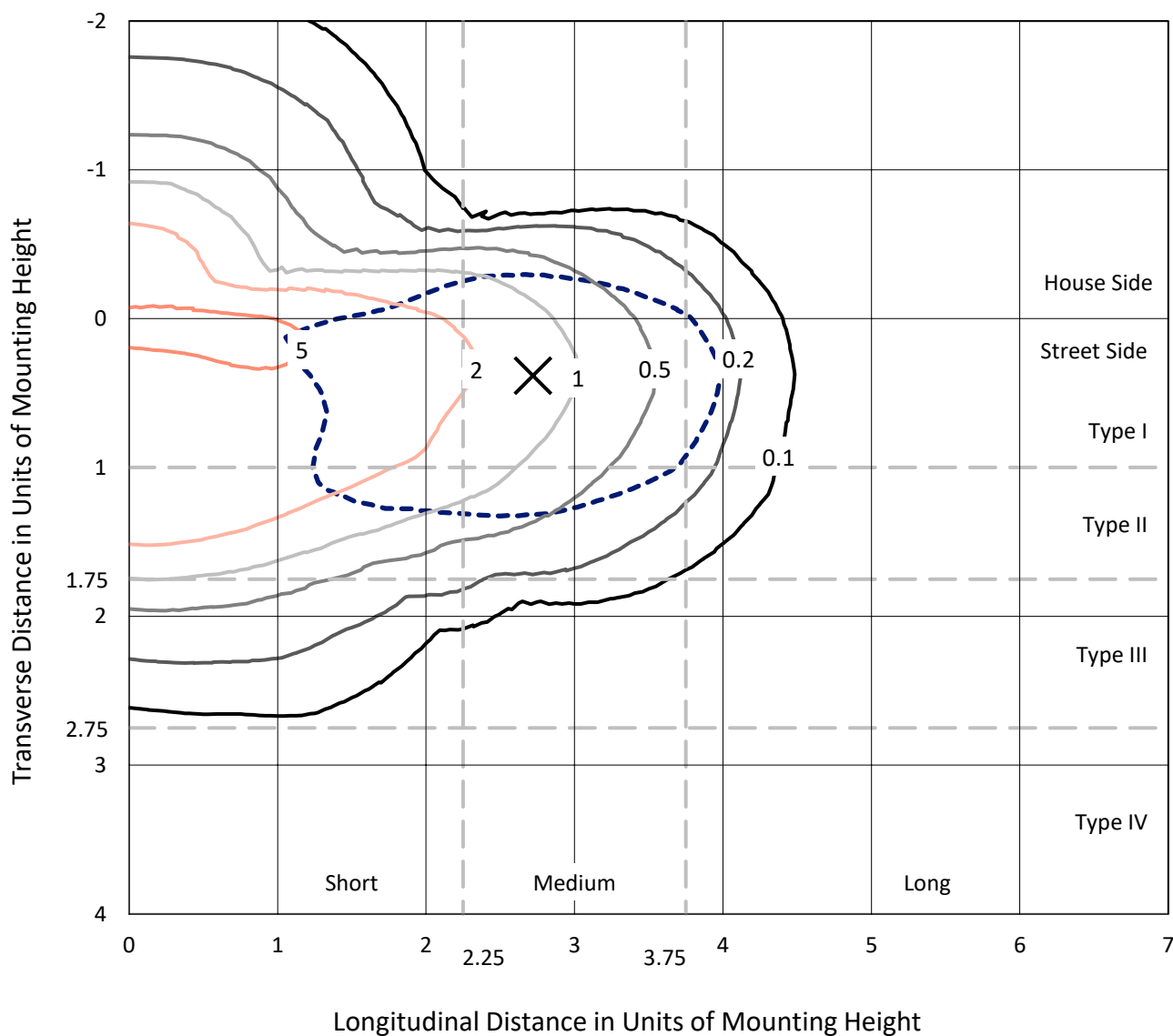
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969966
 CATALOG NUMBER: NAV-SB6A-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

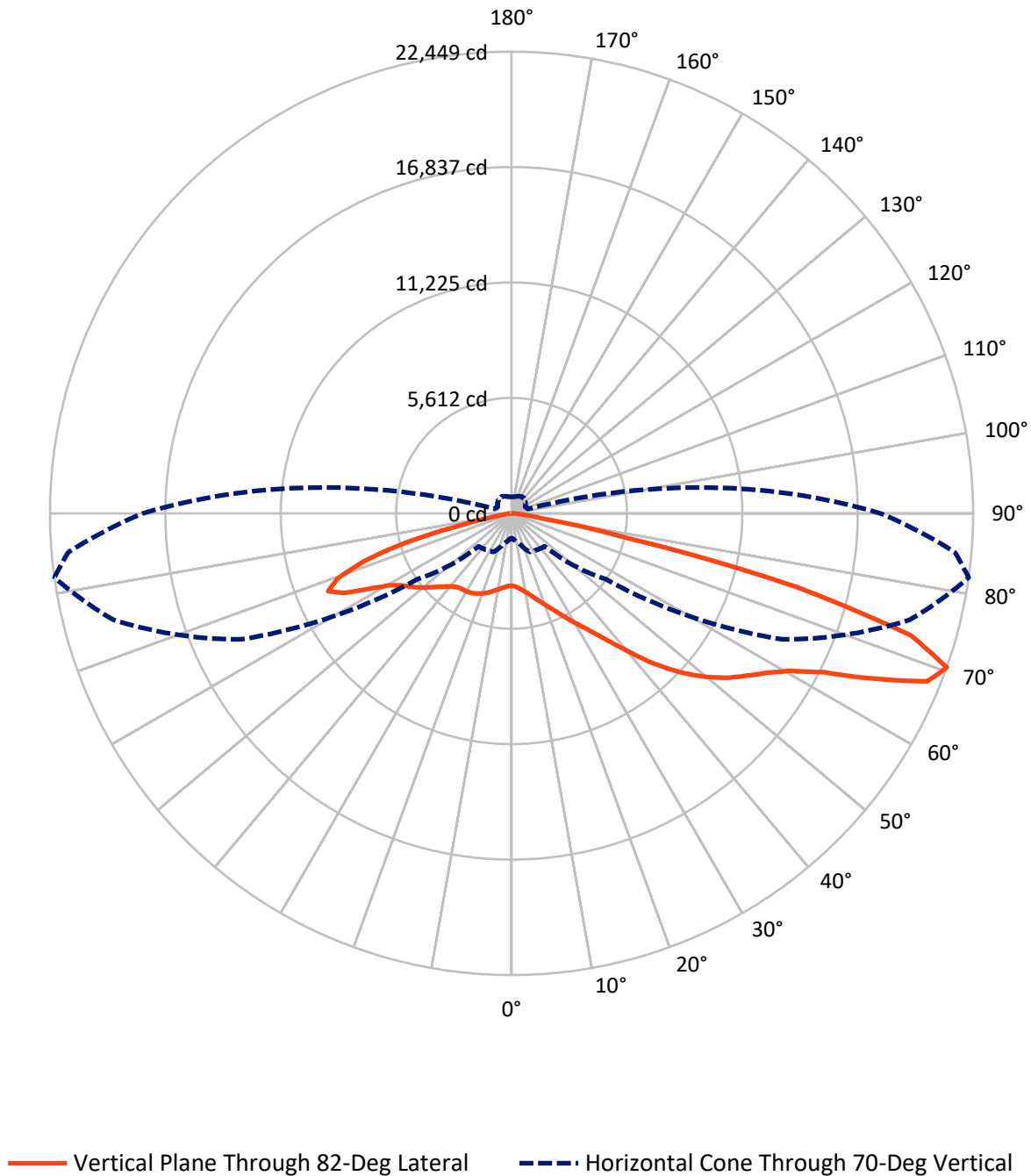
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P969966
CATALOG NUMBER: NAV-SB6A-827-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P969966

CATALOG NUMBER: NAV-SB6A-827-U-T2

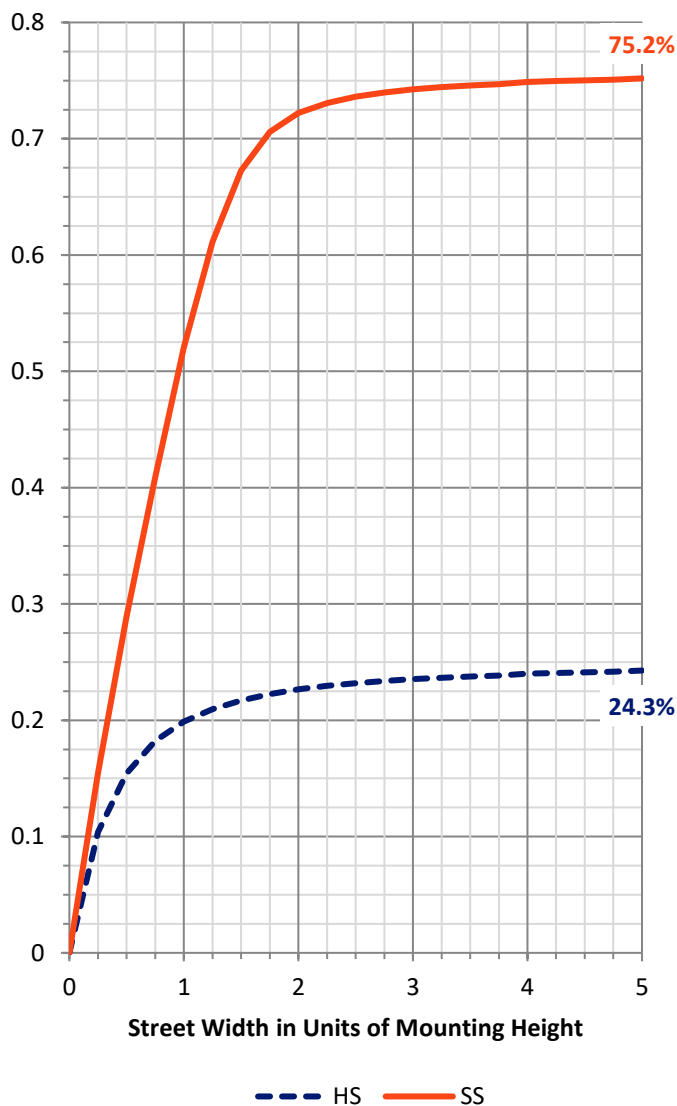
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5922.2	0.0	5922.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18100.7	0.0	18100.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	24022.9	0.0	24022.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.5	1.4
10°-20°	955.4	4.0
20°-30°	1598.3	6.7
30°-40°	2497.0	10.4
40°-50°	3976.8	16.6
50°-60°	5534.1	23.0
60°-70°	5789.0	24.1
70°-80°	3025.6	12.6
80°-90°	314.2	1.3
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°	24022.9	100.0
0°-180°	24022.9	100.0

Coefficient of Utilization



REPORT NUMBER: P969966

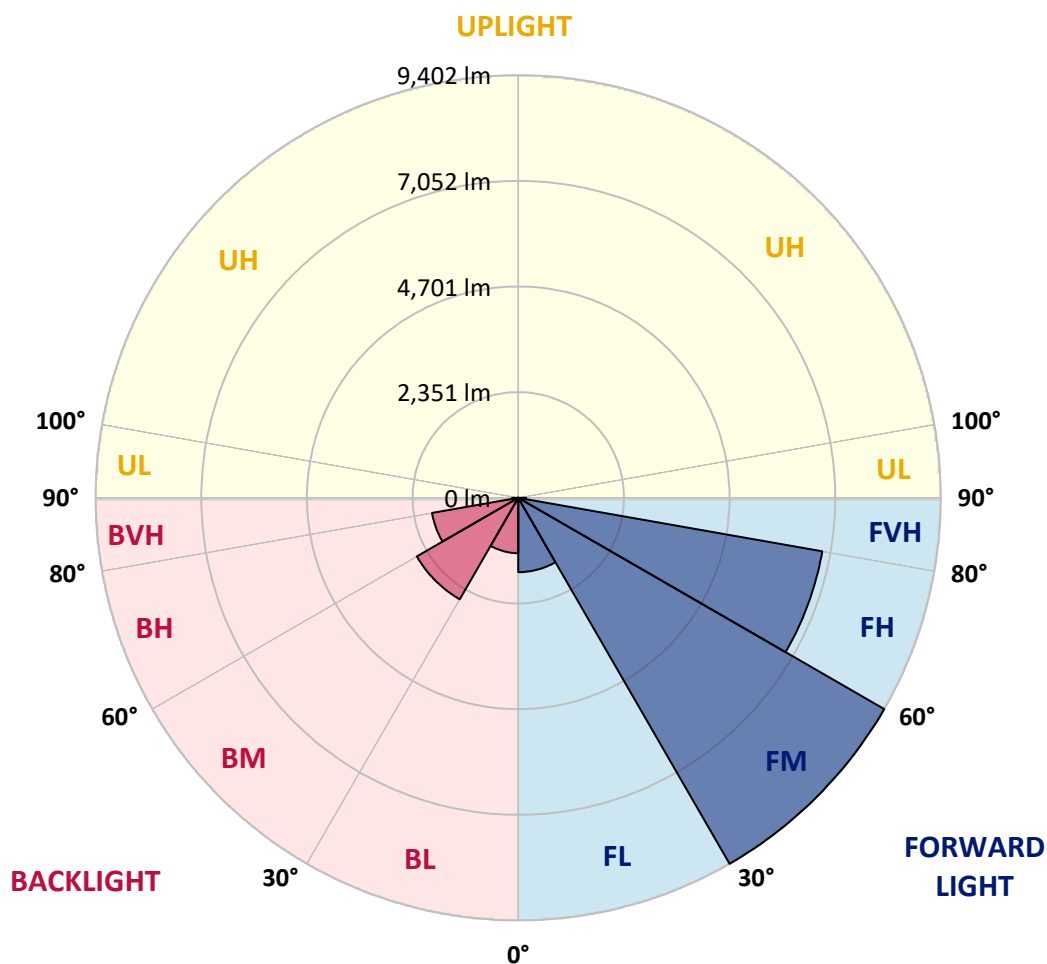
CATALOG NUMBER: NAV-SB6A-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.2	6.9			
FM	(30°-60°)	9402.3	39.1			
FH	(60°-80°)	6868.2	28.6			G3/7500
FVH	(80°-90°)	175.9	0.7			G2/225
BL	(0°-30°)	1232.0	5.1	B3/2500		
BM	(30°-60°)	2605.6	10.8	B3/5000		
BH	(60°-80°)	1946.3	8.1	B3/2500		G3/2500
BVH	(80°-90°)	138.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P969966

CATALOG NUMBER: NAV-SB6A-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1
2.5°	3606.2	3626.6	3620.2	3613.8	3613.8	3604.9	3603.6	3590.9	3580.7	3564.1	3560.3
5°	3652.1	3673.7	3671.2	3676.3	3692.9	3696.7	3700.6	3692.9	3672.5	3652.1	3643.2
7.5°	3611.3	3635.5	3643.2	3673.7	3724.7	3770.7	3805.0	3819.0	3800.0	3770.7	3756.6
10°	3473.6	3500.4	3527.1	3599.8	3690.3	3798.6	3890.5	3945.2	3941.4	3913.4	3889.2
12.5°	3194.4	3222.5	3279.9	3421.3	3587.1	3778.3	3949.1	4063.8	4103.4	4083.0	4040.9
15°	2971.4	2995.6	3038.9	3184.3	3399.7	3690.3	3970.7	4193.9	4294.5	4283.1	4232.1
17.5°	2965.0	2975.2	3002.0	3070.8	3236.5	3552.6	3947.8	4321.3	4513.8	4512.6	4448.8
20°	3077.2	3081.0	3096.3	3110.4	3204.7	3448.1	3889.2	4427.1	4759.8	4759.8	4691.0
22.5°	3232.7	3230.2	3245.5	3232.7	3278.6	3439.2	3852.3	4520.1	5033.9	5054.3	4967.6
25°	3465.9	3453.2	3449.4	3420.1	3429.0	3522.1	3893.1	4625.9	5358.9	5401.0	5292.7
27.5°	3777.0	3756.6	3742.6	3675.0	3652.1	3692.9	4017.9	4753.4	5720.9	5793.6	5656.0
30°	4182.4	4145.4	4125.0	4007.7	3924.8	3931.3	4206.6	4923.0	6099.6	6216.8	6042.2
32.5°	4735.6	4678.2	4623.5	4431.0	4279.3	4229.6	4450.0	5157.5	6510.0	6697.4	6473.1
35°	5355.1	5309.2	5250.6	4953.6	4720.3	4605.5	4779.0	5485.2	6990.6	7287.5	6995.7
37.5°	5951.7	5912.2	5940.2	5539.9	5239.1	5072.1	5209.8	5924.9	7583.4	8021.9	7650.9
40°	6568.6	6538.1	6541.9	6159.4	5808.9	5621.5	5732.4	6476.9	8262.7	8895.1	8438.6
42.5°	7239.2	7216.2	7139.7	6800.7	6406.8	6232.1	6334.1	7114.2	8991.9	9889.3	9302.9
45°	7990.0	7975.9	7904.6	7515.8	7064.5	6868.2	7005.9	7817.9	9724.9	10824.9	10171.0
47.5°	8638.8	8650.3	8641.4	8313.8	7846.0	7557.8	7722.2	8552.1	10406.8	11704.5	11003.4
50°	8951.1	9011.0	9099.0	8997.0	8706.3	8413.2	8445.1	9260.9	11057.0	12529.3	11801.4
52.5°	8787.9	8901.4	9141.1	9304.2	9416.4	9355.2	9269.8	9964.5	11668.8	13273.6	12556.0
55°	8179.9	8339.2	8737.0	9130.8	9703.2	10148.1	10260.2	10744.7	12265.4	13928.9	13269.9
57.5°	7072.2	7330.9	7687.8	8484.5	9448.2	10531.8	11415.1	11826.9	12897.7	14628.7	14016.9
60°	5172.9	5519.5	5963.1	7148.7	8556.0	10326.6	12398.0	13489.1	13796.3	15535.1	14989.5
62.5°	3310.4	3524.6	3932.5	5049.2	6666.8	9274.9	12698.8	15566.9	15319.6	17021.4	16447.8
65°	2266.5	2404.1	2777.6	3404.7	4309.8	6903.9	11893.2	17124.7	17739.1	19377.1	18941.1
67.5°	1647.0	1751.5	2070.2	2619.6	2808.2	4085.4	9229.0	17053.2	20090.9	21804.1	21126.0
70°	1200.8	1274.7	1542.4	2070.2	2160.7	2272.8	5591.0	14496.2	20040.0	22449.1	21637.1
72.5°	889.8	940.7	1120.5	1606.2	1749.0	1534.7	2767.4	10535.6	17220.2	20305.0	19653.7
75°	643.7	681.9	814.6	1228.9	1399.6	1168.9	1380.6	6156.9	12011.8	14283.3	14398.0
77.5°	492.0	521.3	608.0	900.0	1120.5	877.0	856.6	2832.5	5695.5	5723.5	6044.7
80°	395.1	414.3	461.5	633.6	859.2	656.5	558.3	1143.4	1799.9	1523.3	1598.5
82.5°	290.6	322.5	390.1	444.8	614.4	452.5	340.3	577.5	684.5	589.0	594.0
85°	165.7	187.4	235.9	318.7	392.6	276.6	195.1	256.2	318.7	261.3	233.3
87.5°	58.6	76.5	82.8	124.9	170.8	114.7	75.2	73.9	104.6	77.8	65.0
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: P969966

CATALOG NUMBER: NAV-SB6A-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1	3522.1
2.5°	3547.5	3541.2	3515.6	3481.3	3445.5	3411.2	3399.7	3375.4	3358.9	3350.0	3360.2
5°	3619.0	3598.6	3538.6	3462.1	3381.9	3295.2	3234.0	3177.9	3137.1	3098.9	3114.2
7.5°	3721.0	3685.2	3582.0	3448.1	3305.3	3161.3	3054.2	2972.7	2917.9	2882.2	2889.8
10°	3839.4	3784.6	3626.6	3426.5	3205.9	2999.5	2873.2	2803.1	2768.7	2749.6	2754.7
12.5°	3975.9	3898.1	3672.5	3376.8	3054.2	2818.4	2731.7	2711.3	2712.7	2713.9	2716.5
15°	4144.2	4035.7	3709.5	3268.4	2856.7	2679.5	2664.2	2697.3	2731.7	2748.3	2747.0
17.5°	4334.1	4181.1	3715.8	3090.0	2662.8	2590.3	2638.7	2710.1	2762.4	2785.2	2790.4
20°	4538.0	4329.0	3669.9	2837.5	2503.6	2517.6	2604.2	2696.1	2753.4	2782.8	2790.4
22.5°	4771.3	4487.0	3560.3	2572.4	2373.5	2438.6	2540.6	2629.7	2689.7	2719.0	2726.6
25°	5037.7	4664.3	3388.2	2349.3	2261.4	2349.3	2451.3	2525.2	2573.7	2600.4	2608.1
27.5°	5333.5	4849.1	3158.7	2172.2	2163.2	2257.6	2341.7	2399.0	2424.5	2444.9	2452.5
30°	5630.4	5017.3	2880.9	2038.3	2077.8	2167.1	2226.9	2252.4	2260.1	2263.9	2272.8
32.5°	5951.7	5162.6	2588.9	1927.4	1996.2	2079.1	2114.8	2126.3	2090.6	2066.3	2074.0
35°	6340.4	5318.1	2303.4	1839.5	1915.9	1987.3	1998.7	1988.6	1946.5	1896.8	1899.3
37.5°	6821.1	5511.9	2075.2	1776.9	1840.7	1887.8	1873.8	1871.3	1875.1	1816.5	1820.3
40°	7409.9	5764.3	1908.2	1728.6	1779.5	1789.8	1750.2	1771.8	1791.0	1701.7	1704.3
42.5°	8063.9	6068.9	1802.5	1695.4	1728.6	1704.3	1643.1	1667.4	1664.8	1547.5	1546.2
45°	8730.5	6400.4	1765.5	1671.2	1681.4	1632.9	1565.4	1571.7	1518.2	1412.3	1416.2
47.5°	9393.4	6756.1	1788.4	1650.8	1622.7	1567.9	1515.7	1487.6	1408.6	1329.5	1329.5
50°	10043.6	7129.5	1872.6	1610.0	1542.4	1510.5	1472.3	1422.6	1338.4	1270.9	1265.8
52.5°	10646.5	7505.6	1966.9	1542.4	1441.7	1460.8	1436.6	1379.2	1296.4	1227.5	1228.9
55°	11217.6	7881.6	2003.9	1449.4	1347.4	1417.5	1403.4	1297.6	1198.2	1142.2	1137.0
57.5°	11839.7	8334.2	1963.1	1330.9	1270.9	1367.8	1314.3	1197.0	1139.6	1097.6	1093.7
60°	12701.4	9044.2	1875.1	1184.2	1198.2	1293.9	1202.0	1153.6	1091.1	1044.0	1041.4
62.5°	14132.9	10368.6	1733.6	1038.9	1112.8	1184.2	1148.5	1100.1	1036.4	990.5	990.5
65°	16248.9	12209.3	1467.2	925.5	1017.2	1077.2	1091.1	1042.7	976.4	928.0	930.6
67.5°	18033.5	13364.2	1110.3	831.1	919.1	990.5	1030.0	982.8	912.7	865.5	866.8
70°	17935.3	12525.4	847.7	738.1	832.4	905.1	956.0	919.1	843.9	799.3	803.1
72.5°	15930.2	10478.3	685.8	643.7	744.5	815.8	877.0	849.0	772.4	729.2	729.2
75°	11703.2	7438.0	548.2	548.2	634.8	722.7	790.4	772.4	702.3	671.8	662.9
77.5°	4933.2	3120.5	429.6	455.1	527.8	620.7	704.9	711.2	650.2	688.4	624.6
80°	1311.7	860.5	327.6	358.2	414.3	512.4	613.2	610.6	544.3	508.6	472.9
82.5°	499.7	339.1	233.3	252.4	299.6	392.6	485.6	500.9	434.7	376.1	376.1
85°	192.5	145.3	144.0	151.7	174.7	260.0	367.2	379.9	327.6	277.9	286.8
87.5°	49.7	43.4	53.5	50.9	80.3	139.0	210.3	218.0	200.2	116.0	165.7
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)