

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: P969850

Luminaire Tested: **NAV-SB6A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27827.7 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

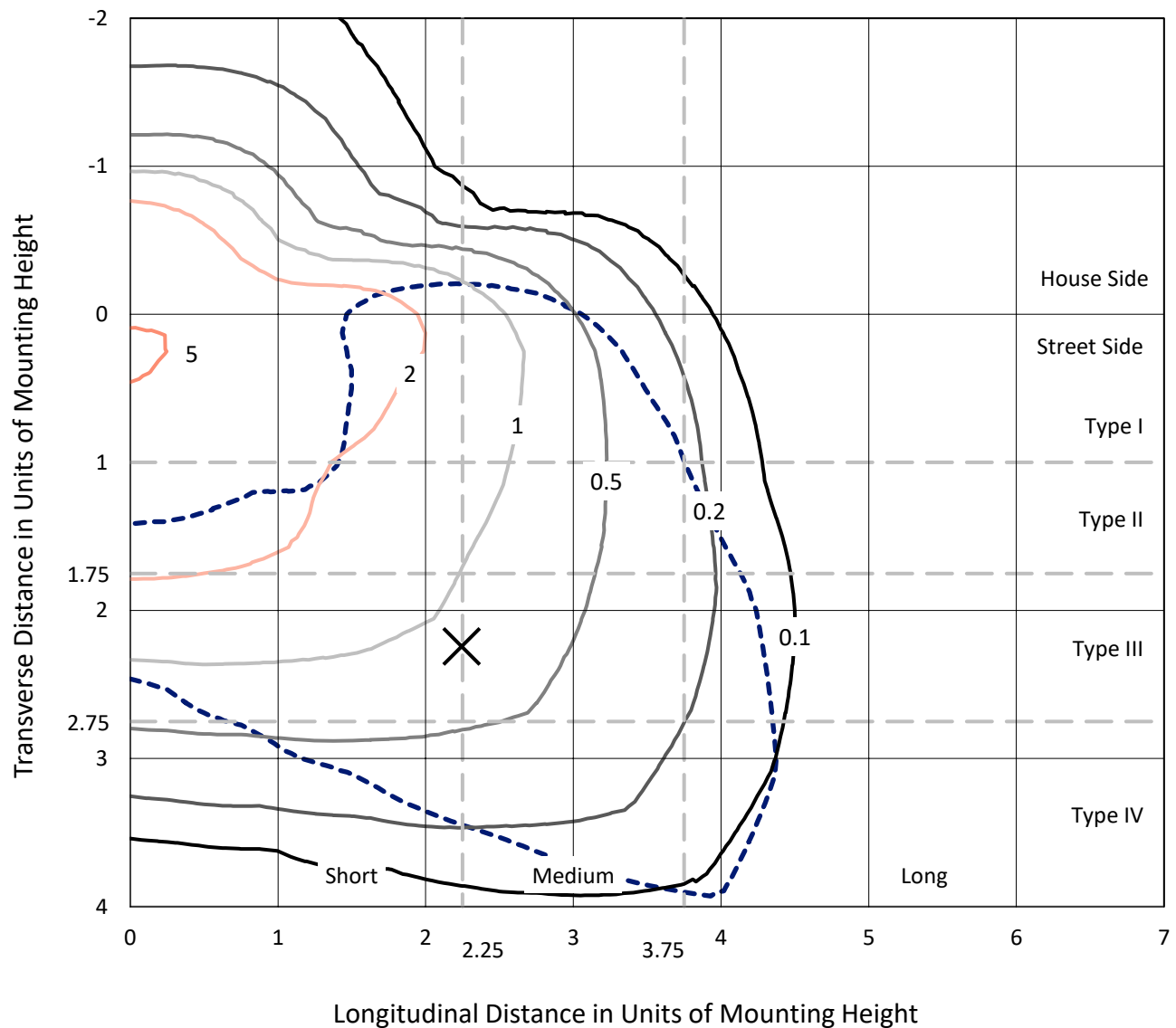


REPORT NUMBER: P969850

CATALOG NUMBER: NAV-SB6A-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

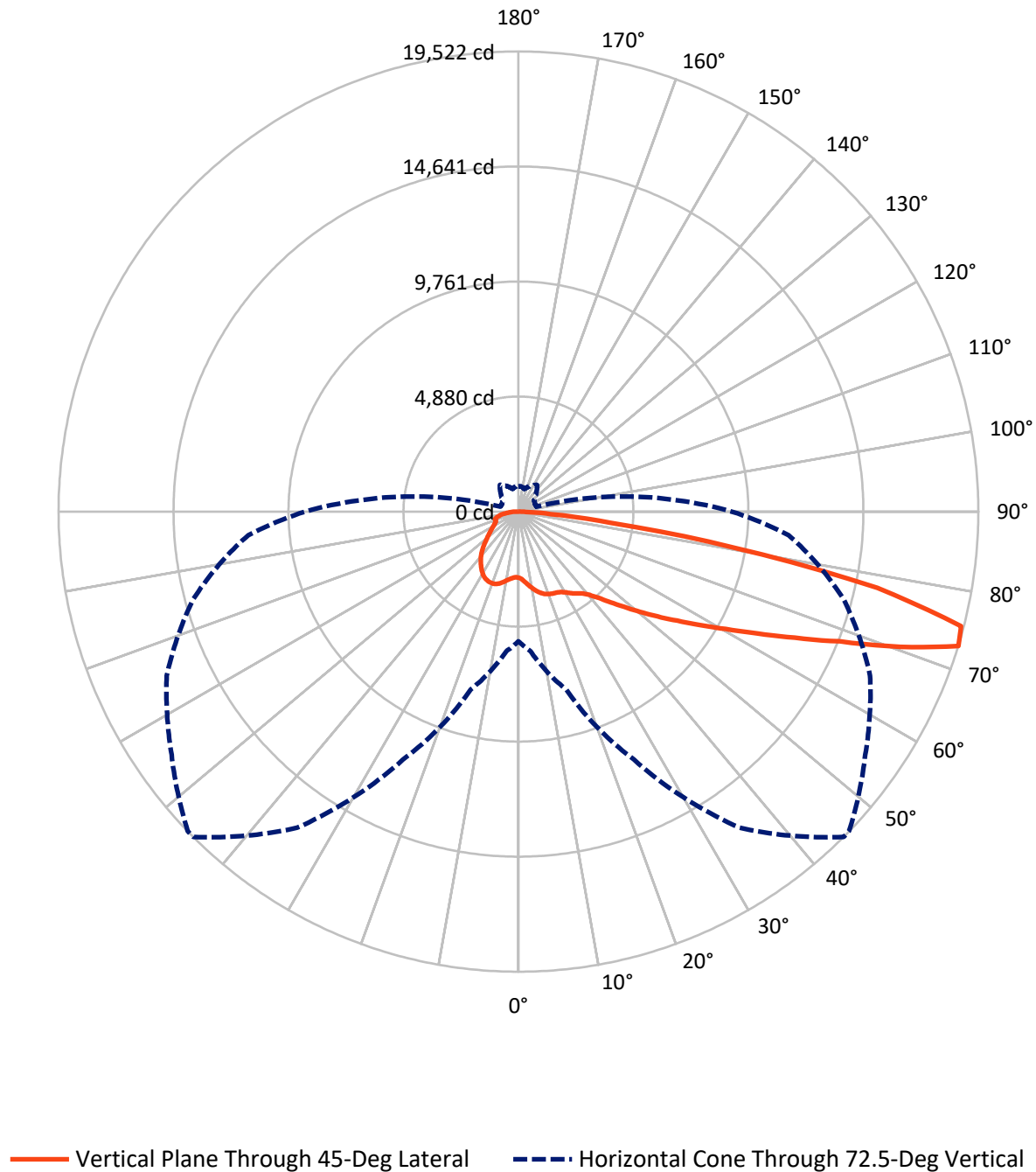
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type IV - Short - N/A

REPORT NUMBER: P969850
CATALOG NUMBER: NAV-SB6A-735-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P969850

CATALOG NUMBER: NAV-SB6A-735-U-T4W

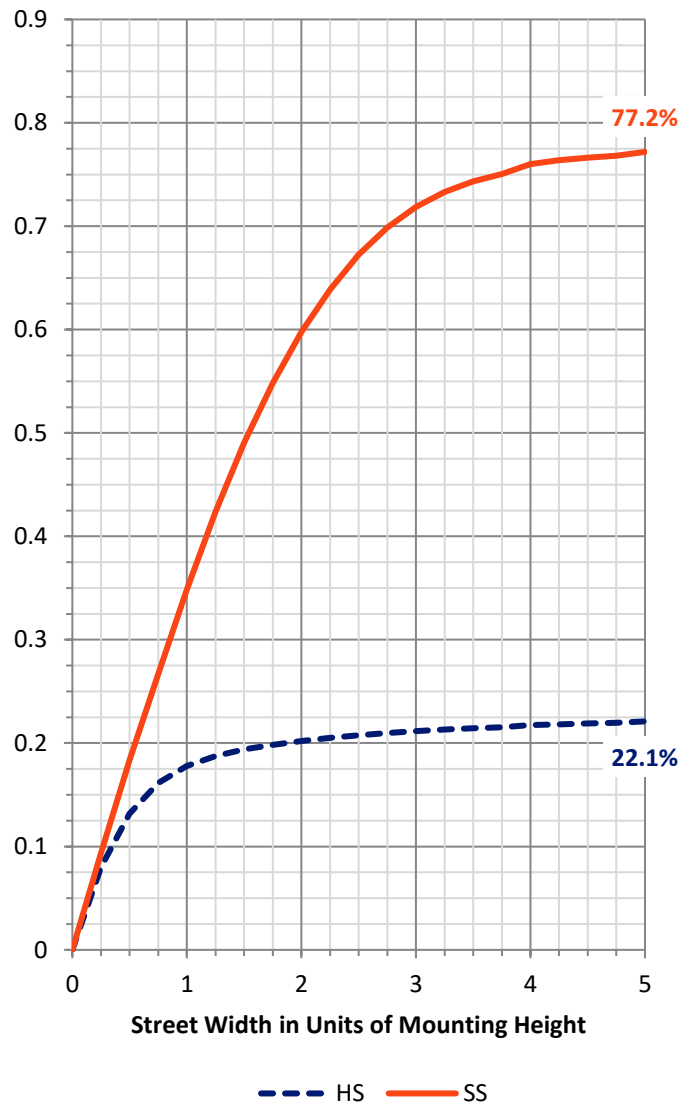
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6290.9	0.0	6290.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21536.8	0.0	21536.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	27827.7	0.0	27827.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	1.0
10°-20°	952.6	3.4
20°-30°	1657.2	6.0
30°-40°	2375.7	8.5
40°-50°	3345.1	12.0
50°-60°	5123.7	18.4
60°-70°	7422.4	26.7
70°-80°	5927.2	21.3
80°-90°	738.2	2.7
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°	27827.7	100.0
0°-180°	27827.7	100.0

Coefficient of Utilization



REPORT NUMBER: P969850

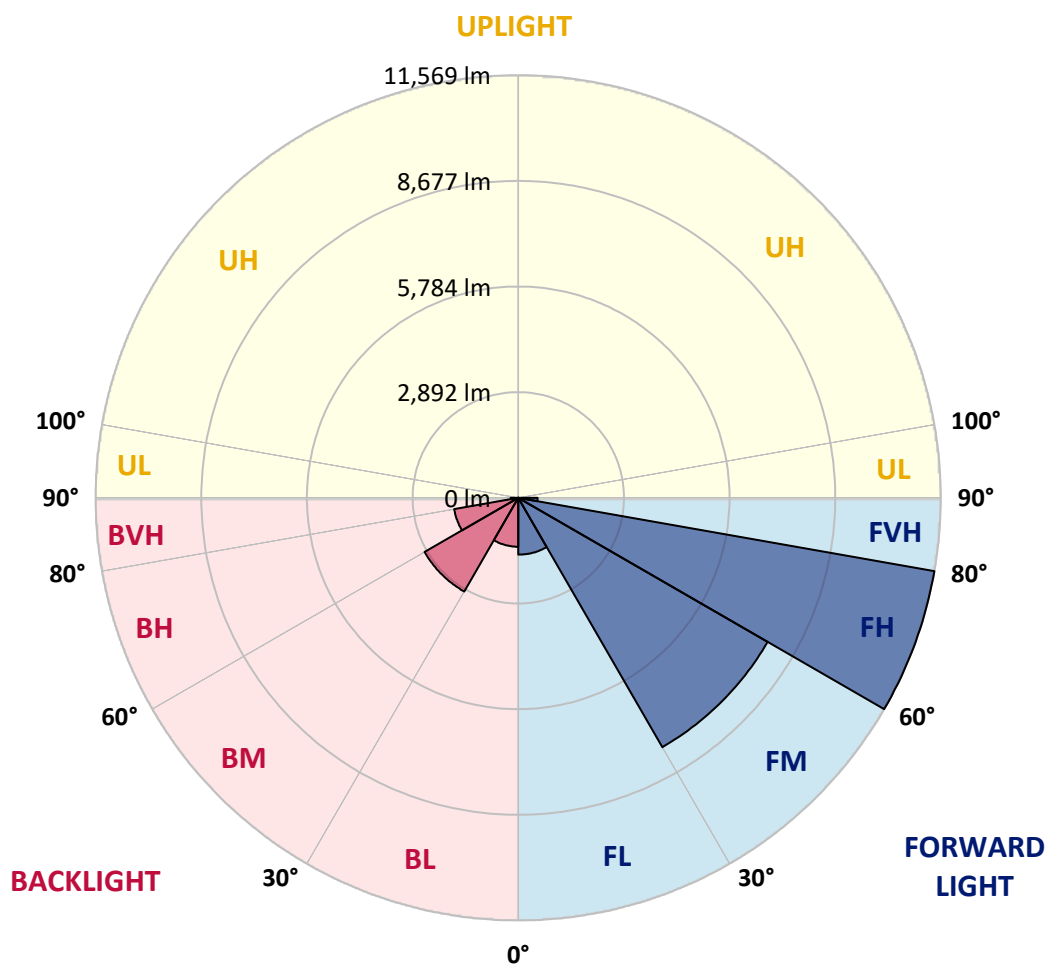
CATALOG NUMBER: NAV-SB6A-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1556.2	5.6			
FM	(30°-60°)	7882.3	28.3			
FH	(60°-80°)	11568.8	41.6			G4/12000
FVH	(80°-90°)	529.6	1.9			G4/750
BL	(0°-30°)	1339.4	4.8	B3/2500		
BM	(30°-60°)	2962.1	10.6	B3/5000		
BH	(60°-80°)	1780.8	6.4	B3/2500		G3/2500
BVH	(80°-90°)	208.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P969850

CATALOG NUMBER: NAV-SB6A-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3
2.5°	2917.3	2936.3	2918.7	2902.6	2895.2	2876.1	2874.7	2863.0	2855.6	2835.1	2829.3
5°	3121.0	3145.9	3116.6	3084.3	3055.0	3008.1	3002.2	2968.5	2930.4	2886.4	2861.5
7.5°	3351.1	3373.2	3339.4	3291.1	3239.7	3162.0	3160.6	3099.0	3038.9	2964.1	2921.7
10°	3551.9	3581.2	3535.8	3469.8	3405.4	3317.4	3307.2	3236.8	3160.6	3063.8	2999.4
12.5°	3729.4	3749.9	3705.9	3625.2	3550.5	3462.6	3449.3	3371.6	3286.7	3176.7	3094.6
15°	3870.1	3896.4	3837.8	3751.3	3672.2	3585.7	3574.0	3503.6	3418.6	3302.8	3197.2
17.5°	3962.4	3984.4	3924.3	3827.6	3751.3	3679.5	3670.7	3612.1	3537.3	3420.0	3307.2
20°	3997.6	4021.1	3958.0	3859.8	3789.4	3733.8	3729.4	3686.8	3635.6	3528.6	3414.2
22.5°	4032.8	4054.8	3972.7	3870.1	3808.5	3773.3	3771.9	3744.0	3723.5	3635.6	3524.2
25°	4175.0	4180.9	4070.9	3922.9	3834.9	3804.1	3802.6	3801.2	3810.0	3741.0	3642.8
27.5°	4298.1	4296.7	4202.8	4063.6	3927.3	3862.7	3861.3	3875.9	3903.8	3846.6	3766.0
30°	4478.4	4462.3	4350.9	4205.8	4081.1	3981.5	3972.7	3959.5	3981.5	3936.0	3889.2
32.5°	4861.1	4809.7	4629.4	4371.4	4208.8	4132.5	4120.8	4038.7	4047.4	4019.6	3996.2
35°	5409.3	5341.9	5101.4	4685.2	4367.0	4258.6	4252.7	4148.6	4131.1	4106.2	4114.9
37.5°	6061.6	5978.1	5698.1	5139.6	4639.7	4405.1	4396.3	4302.5	4230.7	4204.3	4254.2
40°	6716.9	6611.4	6379.8	5693.7	5041.4	4649.9	4622.1	4479.9	4397.9	4353.9	4459.4
42.5°	7353.1	7265.2	7067.3	6315.2	5536.8	5007.6	4946.0	4702.7	4641.2	4600.1	4790.6
45°	7916.1	7836.9	7691.8	6979.3	6117.4	5494.3	5434.2	5037.0	5017.9	5017.9	5293.5
47.5°	8373.4	8355.9	8201.9	7656.6	6802.0	6048.4	5944.4	5501.7	5552.9	5632.2	6007.4
50°	8880.7	8832.3	8668.1	8323.6	7606.7	6683.2	6598.2	6071.9	6264.0	6481.0	7039.5
52.5°	9346.9	9373.2	9189.9	9018.5	8515.6	7391.3	7241.7	6744.8	7159.6	7518.8	8248.9
55°	9826.2	9827.7	9776.3	9752.9	9468.5	8174.1	8009.9	7553.9	8213.6	8659.3	9659.1
57.5°	10276.2	10279.2	10355.4	10562.1	10573.8	9077.1	8891.0	8547.9	9384.9	9839.4	11113.3
60°	10677.9	10698.4	10906.6	11390.3	11545.7	10112.0	9936.1	9722.1	10595.8	11053.2	12642.2
62.5°	10812.7	10887.6	11350.7	12038.3	12505.9	11381.6	11208.6	11081.1	11868.3	12293.3	13920.5
65°	10584.0	10755.6	11651.3	12573.4	13494.0	12890.0	12718.5	12579.2	13190.5	13590.8	14970.2
67.5°	10022.7	10244.0	11633.7	13134.9	14693.2	14704.9	14545.1	14218.2	14608.1	14762.0	15311.8
70°	8543.5	8874.8	10609.1	13344.5	16069.6	17186.7	17032.7	16191.3	16022.7	15278.0	14350.1
72.5°	5504.6	5950.2	7812.0	11619.1	16376.0	19521.9	19513.1	17972.5	16469.8	14275.3	11509.1
75°	2008.4	2281.0	3629.6	7293.1	13746.2	19403.1	19460.3	17667.5	15034.7	11026.8	7169.9
77.5°	731.5	800.4	1184.5	2802.9	8454.1	15568.3	15687.0	14124.3	10701.4	5534.0	2841.0
80°	384.1	422.2	606.9	1087.7	3622.4	9245.7	9431.8	8393.9	5029.7	1666.8	851.7
82.5°	212.6	230.1	340.1	590.8	1631.6	3953.6	4065.0	3316.0	1769.4	706.5	351.8
85°	114.4	121.7	159.8	322.5	797.4	1370.6	1401.5	991.0	705.1	414.8	170.0
87.5°	33.7	41.0	52.8	102.6	312.2	307.8	315.2	196.4	278.5	209.6	55.7
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: P969850

CATALOG NUMBER: NAV-SB6A-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3	2807.3
2.5°	2820.5	2816.1	2800.0	2792.6	2783.8	2782.4	2789.6	2791.2	2792.6	2794.0	2800.0
5°	2846.8	2832.2	2817.5	2808.7	2811.7	2813.1	2827.8	2838.0	2845.4	2851.2	2854.2
7.5°	2898.2	2886.4	2861.5	2860.1	2864.5	2877.7	2896.6	2920.1	2933.3	2943.6	2946.6
10°	2974.3	2952.4	2923.1	2927.5	2936.3	2955.4	2994.9	3014.0	3035.9	3055.0	3050.6
12.5°	3052.0	3033.1	2999.4	3002.2	3016.9	3050.6	3088.7	3112.2	3126.9	3141.5	3147.4
15°	3153.2	3119.5	3082.9	3082.9	3109.2	3145.9	3163.5	3182.5	3191.3	3207.4	3213.4
17.5°	3257.3	3213.4	3165.0	3162.0	3194.3	3211.8	3222.1	3225.1	3228.0	3245.6	3251.5
20°	3361.4	3313.0	3244.1	3238.3	3245.6	3242.7	3241.2	3238.3	3242.7	3264.6	3273.4
22.5°	3464.0	3408.3	3313.0	3286.7	3266.2	3238.3	3236.8	3235.3	3238.3	3260.2	3274.9
25°	3584.2	3516.8	3389.3	3310.1	3241.2	3203.1	3207.4	3209.0	3211.8	3229.5	3252.9
27.5°	3714.7	3640.0	3459.6	3302.8	3178.1	3151.8	3144.4	3148.8	3159.2	3186.9	3214.8
30°	3845.2	3757.2	3524.2	3273.4	3099.0	3062.4	3038.9	3049.2	3081.5	3109.2	3140.1
32.5°	3963.9	3875.9	3575.4	3209.0	2997.8	2940.7	2909.9	2923.1	2955.4	2965.6	3002.2
35°	4103.2	4003.4	3597.4	3106.4	2887.9	2800.0	2758.9	2739.8	2755.9	2745.7	2778.0
37.5°	4258.6	4154.4	3594.5	2971.5	2758.9	2657.7	2600.5	2528.8	2495.1	2459.9	2481.8
40°	4488.7	4339.1	3559.3	2808.7	2599.1	2506.7	2404.1	2282.5	2206.2	2137.3	2141.7
42.5°	4802.4	4595.7	3494.8	2629.9	2418.8	2332.3	2193.1	2050.8	1930.7	1816.3	1806.0
45°	5270.0	4931.4	3414.2	2439.3	2223.8	2138.8	1987.8	1828.0	1691.7	1545.1	1527.6
47.5°	5944.4	5382.9	3337.9	2222.4	2018.6	1940.9	1804.6	1656.5	1495.3	1353.1	1336.9
50°	6870.9	6030.9	3267.6	2011.3	1816.3	1757.7	1649.2	1498.1	1335.5	1221.1	1213.8
52.5°	8049.4	6911.9	3238.3	1807.5	1627.2	1605.3	1518.7	1378.0	1224.1	1127.3	1120.0
55°	9402.5	7965.9	3238.3	1612.5	1461.5	1468.8	1408.8	1278.3	1144.9	1058.4	1049.6
57.5°	10783.4	9033.1	3179.7	1432.2	1320.8	1351.6	1313.4	1199.1	1078.9	989.5	974.9
60°	12055.8	9927.3	2942.2	1268.0	1196.2	1244.6	1219.6	1121.5	974.9	900.1	888.4
62.5°	13033.7	10431.6	2484.8	1137.5	1093.6	1149.3	1136.1	1018.8	955.8	925.0	914.7
65°	13523.3	10349.5	1899.8	1021.7	1007.1	1093.6	1065.7	1061.4	1011.5	976.3	964.6
67.5°	13222.8	9643.0	1378.0	936.7	957.2	1042.3	1149.3	1166.9	1074.5	1005.6	993.9
70°	11904.9	8364.6	1026.1	856.1	894.2	1043.8	1310.6	1221.1	1054.0	973.3	960.2
72.5°	9056.6	6237.5	796.0	771.1	812.1	1051.0	1382.4	1196.2	995.4	1076.0	1067.2
75°	5179.1	3424.4	639.2	667.0	709.5	982.2	1345.7	1131.7	950.0	988.0	988.0
77.5°	1974.7	1316.4	527.8	564.4	570.2	857.6	1287.1	1127.3	904.5	882.5	804.8
80°	684.6	514.6	436.9	448.5	441.3	762.3	1234.3	980.7	740.3	662.6	640.6
82.5°	280.0	256.6	345.9	331.3	313.8	592.2	996.8	801.9	605.5	535.0	529.2
85°	121.7	162.8	228.7	200.8	181.7	410.5	799.0	678.8	511.6	441.3	439.8
87.5°	24.9	61.6	96.8	90.9	93.8	274.1	567.3	482.3	362.1	271.2	212.6
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)