

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: P970001

Luminaire Tested: **NAV-SB6A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25070.5 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
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



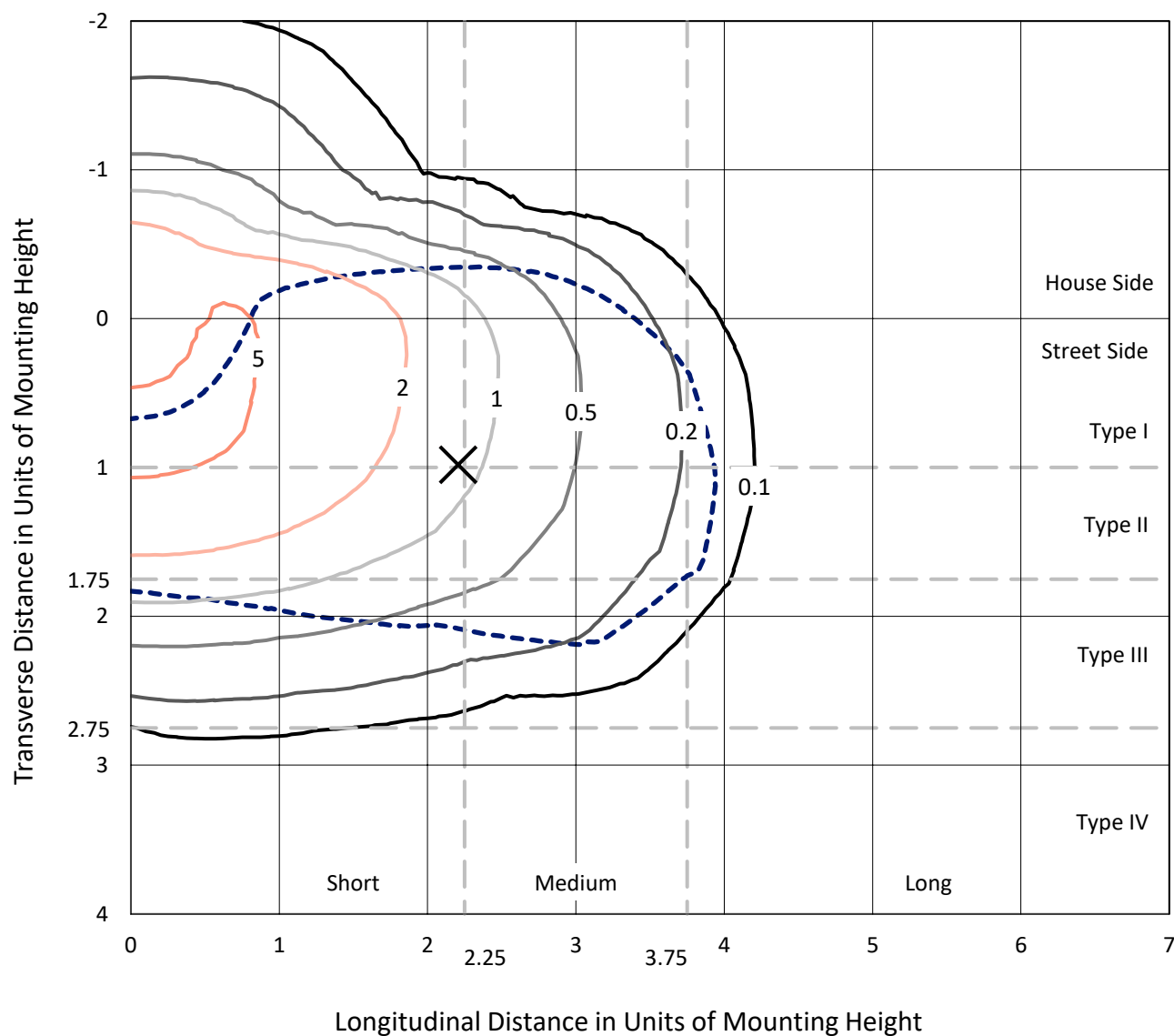
REPORT NUMBER: P970001

CATALOG NUMBER: NAV-SB6A-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

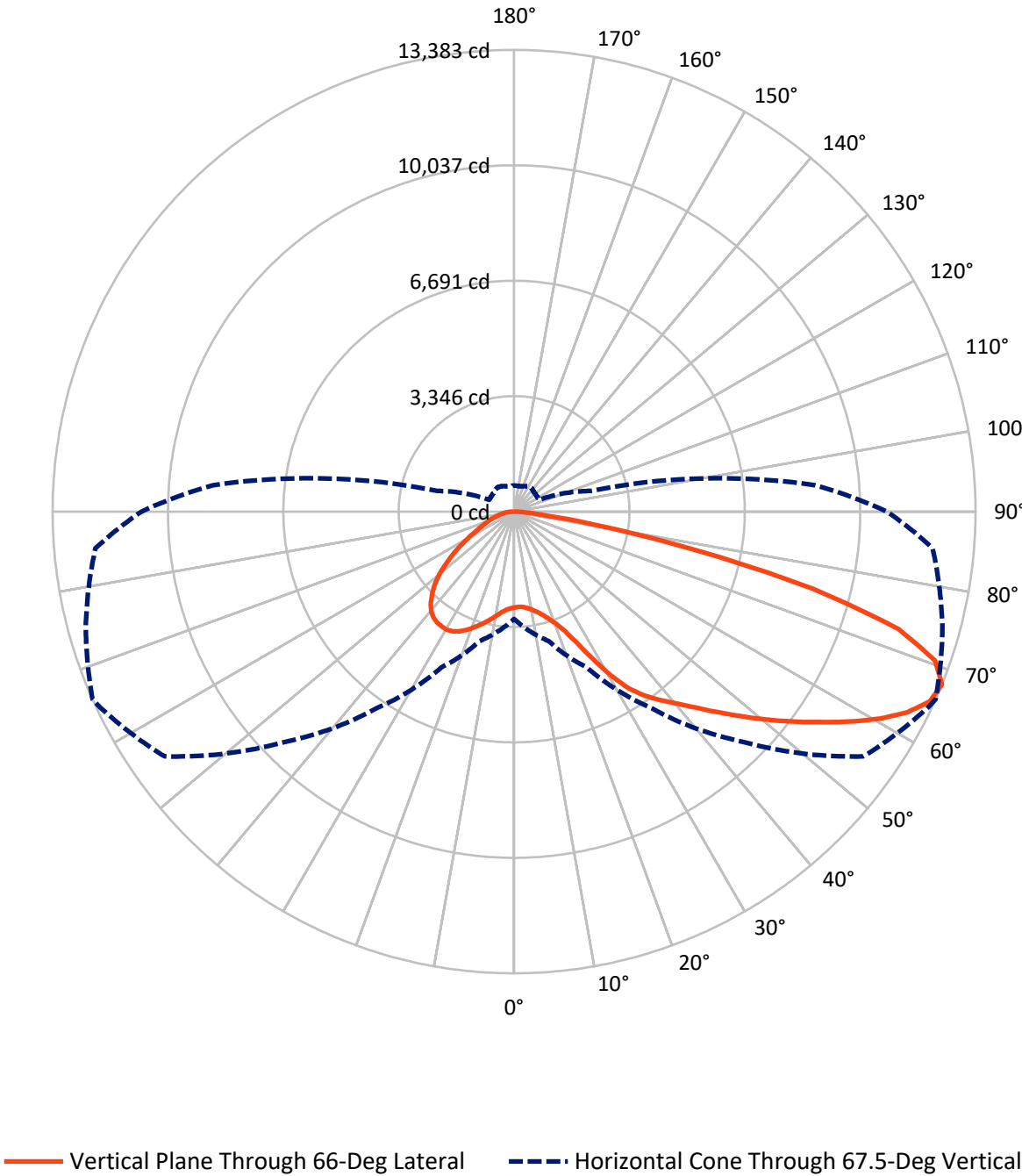


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type III - Short - N/A

REPORT NUMBER: P970001
CATALOG NUMBER: NAV-SB6A-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P970001

CATALOG NUMBER: NAV-SB6A-830-U-T3

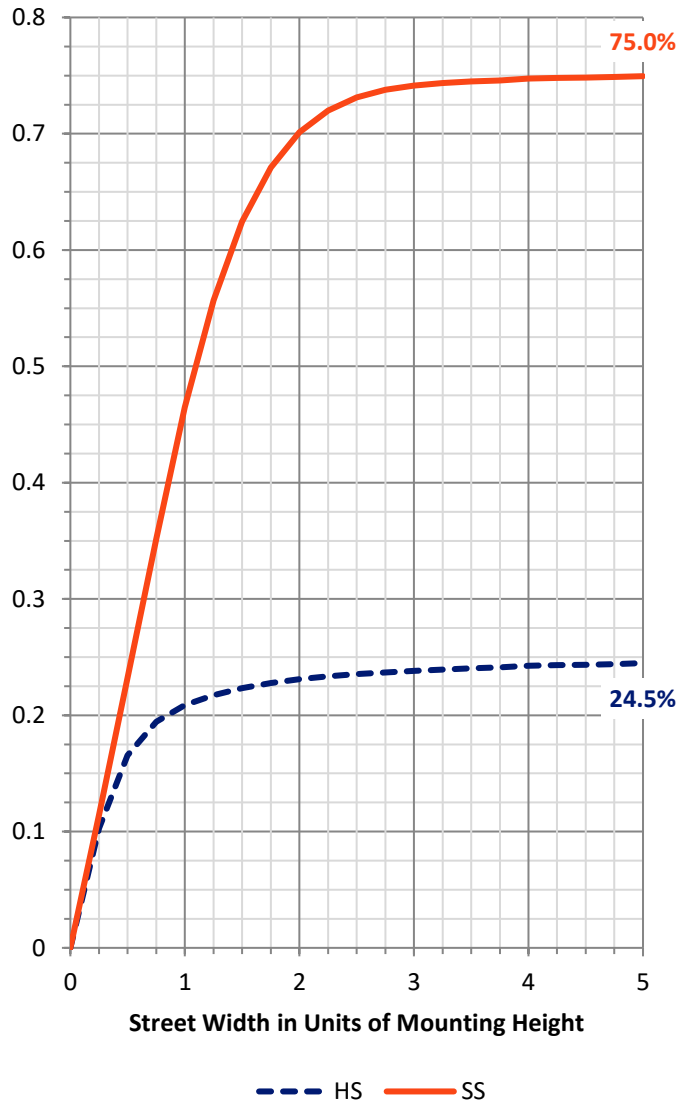
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6233.7	0.0	6233.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18836.8	0.0	18836.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	25070.5	0.0	25070.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	1.1
10°-20°	910.8	3.6
20°-30°	1755.6	7.0
30°-40°	3078.2	12.3
40°-50°	4576.3	18.3
50°-60°	5800.9	23.1
60°-70°	5676.0	22.6
70°-80°	2707.5	10.8
80°-90°	289.4	1.2
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°	25070.5	100.0
0°-180°	25070.5	100.0

Coefficient of Utilization



REPORT NUMBER: P970001

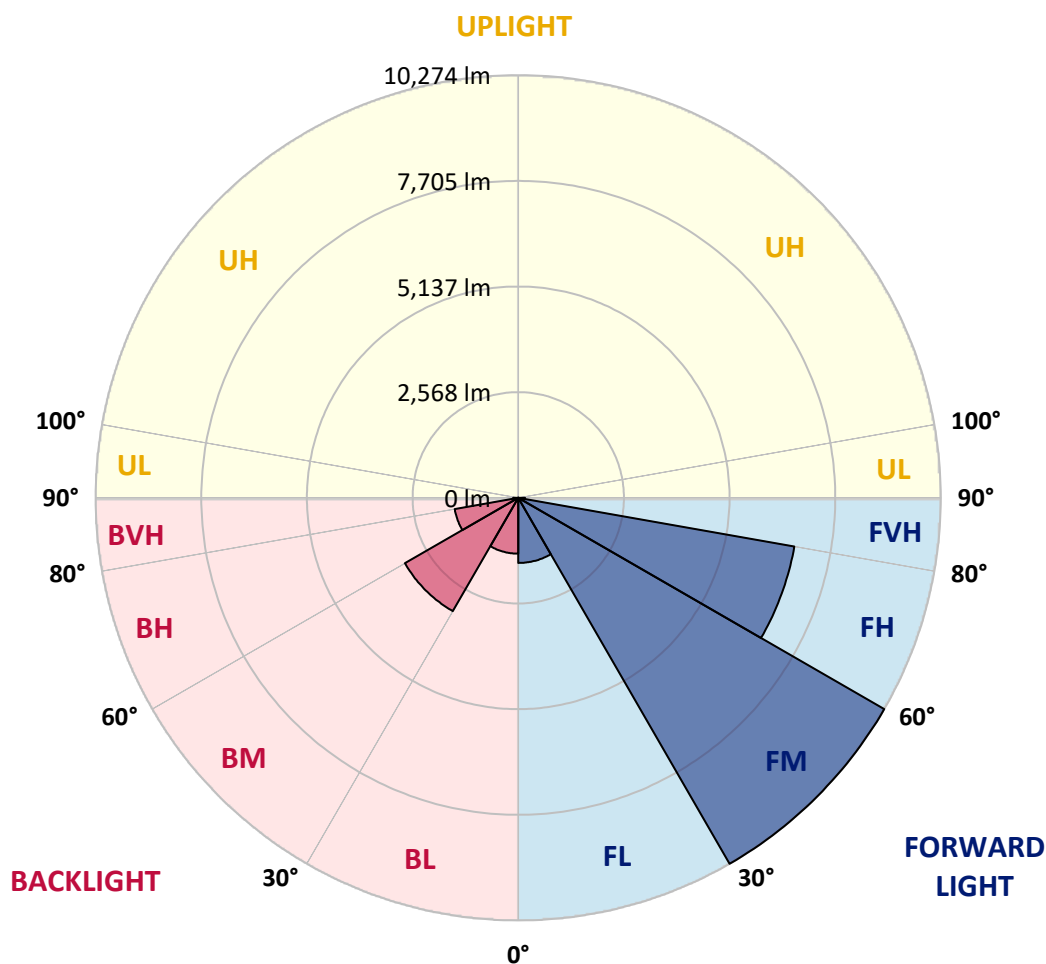
CATALOG NUMBER: NAV-SB6A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1584.2	6.3			
FM	(30°-60°)	10273.7	41.0			
FH	(60°-80°)	6814.8	27.2			G3/7500
FVH	(80°-90°)	164.1	0.7			G2/225
BL	(0°-30°)	1357.9	5.4	B3/2500		
BM	(30°-60°)	3181.7	12.7	B3/5000		
BH	(60°-80°)	1568.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	125.3	0.5			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 III Short



REPORT NUMBER: P970001

CATALOG NUMBER: NAV-SB6A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6
2.5°	2751.7	2767.5	2763.5	2756.9	2755.6	2758.3	2762.2	2766.2	2764.8	2771.4	2782.0
5°	2743.7	2759.6	2758.3	2758.3	2763.5	2774.1	2780.6	2787.3	2780.6	2788.5	2803.1
7.5°	2749.0	2760.8	2766.2	2771.4	2784.6	2804.4	2820.2	2834.6	2826.7	2836.0	2854.4
10°	2816.2	2825.4	2830.7	2830.7	2840.0	2862.3	2878.1	2904.4	2897.9	2912.3	2936.1
12.5°	2938.7	2947.9	2947.9	2942.7	2949.2	2963.8	2969.0	2998.0	2986.1	3009.8	3033.6
15°	3088.8	3107.3	3092.8	3083.6	3086.3	3100.7	3099.4	3121.8	3110.0	3129.7	3150.7
17.5°	3254.9	3278.6	3254.9	3253.6	3248.2	3264.1	3265.3	3285.1	3264.1	3278.6	3293.0
20°	3451.1	3484.1	3464.3	3470.9	3459.0	3465.6	3472.2	3501.2	3468.2	3478.7	3474.9
22.5°	3727.7	3767.3	3746.2	3771.2	3763.3	3758.1	3756.7	3808.1	3756.7	3760.6	3722.5
25°	4130.8	4178.2	4141.3	4175.5	4175.5	4192.7	4212.4	4278.3	4192.7	4167.6	4068.8
27.5°	4726.2	4773.6	4701.2	4722.2	4715.6	4757.7	4736.7	4900.0	4807.9	4767.0	4568.1
30°	5442.7	5527.0	5390.1	5384.8	5378.2	5445.4	5475.7	5583.7	5490.2	5449.3	5209.6
32.5°	6217.2	6305.5	6142.2	6094.8	6069.7	6110.5	6085.5	6172.4	6108.0	6044.7	5748.3
35°	7036.6	7123.5	6968.1	6875.9	6775.8	6690.2	6600.6	6622.9	6562.4	6466.2	6159.3
37.5°	7811.1	7970.5	7805.8	7707.1	7522.7	7355.3	7105.1	7001.1	6944.4	6856.1	6546.6
40°	8600.2	8691.0	8565.8	8481.6	8281.4	8019.2	7618.8	7398.9	7322.4	7236.8	6974.7
42.5°	9181.0	9267.9	9200.8	9142.8	8986.1	8681.8	8164.1	7888.8	7778.2	7682.0	7459.4
45°	9642.1	9706.5	9664.4	9685.5	9618.3	9323.3	8729.2	8414.4	8299.8	8182.6	8007.4
47.5°	9827.8	9896.3	9963.4	10088.6	10203.2	9985.9	9336.4	8983.4	8862.3	8742.3	8569.8
50°	9806.7	9876.5	10071.4	10337.5	10693.2	10620.7	9976.6	9589.4	9477.4	9340.4	9181.0
52.5°	9638.1	9717.1	9967.4	10410.0	10976.4	11096.2	10628.6	10215.0	10109.7	9946.3	9786.9
55°	9195.5	9242.9	9618.3	10245.3	11043.6	11428.1	11267.5	10881.5	10776.1	10548.3	10374.4
57.5°	8374.9	8443.3	8990.0	9801.5	10874.9	11653.4	11828.6	11582.3	11480.8	11152.9	10971.1
60°	7303.9	7413.3	8039.0	9055.9	10445.6	11652.1	12338.3	12271.2	12186.9	11748.2	11558.6
62.5°	6092.1	6218.6	6820.6	8002.1	9694.8	11321.5	12657.1	12848.2	12804.7	12297.5	12055.1
65°	4678.7	4765.7	5365.1	6638.8	8526.4	10611.5	12694.0	13242.0	13249.9	12715.1	12314.7
67.5°	3115.2	3365.5	3885.8	4981.7	6961.5	9451.0	12370.0	13306.6	13382.9	12858.7	12184.3
70°	1520.1	1849.4	2359.1	3237.8	4981.7	7671.5	11523.0	12777.0	12947.0	12439.8	11407.1
72.5°	631.0	737.7	1015.6	1597.8	2859.6	5176.7	9821.1	11341.2	11656.1	11022.4	9590.6
75°	425.5	461.0	580.9	819.3	1302.8	2552.8	7082.6	8456.6	8963.6	8324.8	6804.8
77.5°	328.0	350.3	422.8	573.0	774.5	965.6	3791.0	5096.3	5358.4	4960.7	3540.7
80°	258.2	275.3	316.1	417.6	549.3	516.4	1292.2	2309.1	2460.5	2064.0	1138.1
82.5°	224.0	230.5	226.5	283.2	364.9	301.7	424.1	852.3	940.5	682.3	371.5
85°	162.1	180.5	188.4	175.2	193.6	152.8	173.8	301.7	331.9	296.3	209.4
87.5°	65.9	97.5	119.8	113.3	71.1	43.5	54.0	88.3	101.5	110.6	68.5
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: P970001

CATALOG NUMBER: NAV-SB6A-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6	2780.6
2.5°	2783.3	2792.5	2799.1	2807.0	2812.3	2820.2	2836.0	2845.2	2846.5	2853.1	2851.8
5°	2808.3	2821.5	2836.0	2857.1	2880.8	2900.5	2930.8	2951.9	2959.8	2966.4	2965.0
7.5°	2862.3	2880.8	2907.1	2944.0	2978.2	3004.6	3041.5	3066.5	3091.5	3100.7	3102.1
10°	2942.7	2969.0	3007.2	3057.3	3094.2	3128.4	3166.6	3187.6	3212.7	3223.2	3228.5
12.5°	3042.8	3070.4	3120.5	3190.3	3224.5	3248.2	3261.4	3256.1	3261.4	3270.7	3273.3
15°	3157.4	3187.6	3244.3	3319.4	3343.1	3322.0	3293.0	3266.7	3262.8	3265.3	3274.6
17.5°	3293.0	3315.5	3381.3	3444.5	3427.4	3340.5	3277.2	3235.1	3214.0	3207.4	3216.7
20°	3482.7	3482.7	3536.8	3576.2	3461.6	3314.1	3215.3	3146.9	3103.4	3084.9	3080.9
22.5°	3713.3	3692.2	3726.4	3698.7	3455.1	3240.3	3103.4	2984.8	2919.0	2892.7	2888.7
25°	4005.7	3980.6	3971.4	3800.2	3407.6	3123.1	2900.5	2756.9	2699.0	2684.5	2687.1
27.5°	4447.0	4383.7	4263.8	3855.5	3320.7	2938.7	2663.5	2530.4	2497.4	2498.7	2502.7
30°	5034.4	4907.9	4614.2	3864.8	3178.4	2677.9	2421.0	2326.2	2310.4	2317.0	2339.4
32.5°	5578.5	5458.5	4972.5	3822.5	2959.8	2422.4	2203.8	2140.5	2116.7	2124.7	2135.2
35°	6005.2	5972.3	5304.5	3763.3	2691.0	2182.6	2008.8	1954.8	1908.7	1898.1	1906.0
37.5°	6408.3	6395.1	5553.3	3680.3	2425.0	2012.7	1852.0	1780.8	1713.7	1676.8	1678.1
40°	6850.9	6837.7	5716.7	3552.5	2189.2	1865.2	1711.0	1617.6	1534.5	1467.4	1473.9
42.5°	7348.7	7271.0	5794.4	3369.5	1989.0	1740.0	1596.4	1470.1	1360.7	1298.8	1302.8
45°	7892.8	7717.5	5793.1	3136.3	1820.4	1625.4	1473.9	1294.8	1193.4	1135.4	1132.8
47.5°	8469.7	8144.3	5722.0	2878.1	1657.0	1499.0	1284.3	1147.3	1080.1	1044.6	1036.7
50°	9065.1	8543.5	5600.8	2581.8	1489.7	1355.5	1165.7	1072.3	1020.8	987.9	976.1
52.5°	9625.0	8905.7	5454.6	2245.9	1319.9	1215.8	1113.0	1040.6	986.6	949.8	933.9
55°	10145.2	9217.9	5247.8	1902.1	1181.5	1122.3	1088.0	1027.5	965.6	922.1	905.0
57.5°	10607.5	9420.8	4890.8	1579.3	1082.7	1057.7	1061.7	1005.0	933.9	897.0	873.3
60°	10992.2	9569.6	4362.6	1280.3	1002.4	994.5	1020.8	962.9	879.9	837.7	819.3
62.5°	11222.7	9566.9	3714.6	1048.5	933.9	936.5	966.9	910.2	825.9	786.4	774.5
65°	11202.9	9332.5	3003.2	897.0	868.1	870.6	910.2	852.3	781.2	757.4	756.0
67.5°	10806.5	8760.8	2303.8	798.3	795.6	807.5	853.5	812.7	753.5	750.8	754.8
70°	9732.9	7574.0	1659.7	719.2	720.5	737.7	798.3	787.7	738.9	744.3	742.9
72.5°	7804.6	5774.6	1114.4	636.2	637.6	665.2	745.6	767.9	724.5	794.3	804.8
75°	5197.8	3601.2	716.6	548.0	549.3	584.9	699.5	729.7	684.9	791.6	798.3
77.5°	2497.4	1618.9	519.0	461.0	461.0	493.9	604.6	653.3	583.5	615.1	563.8
80°	862.7	608.5	408.4	371.5	363.6	385.9	509.7	566.4	503.2	463.7	434.7
82.5°	339.9	316.1	328.0	288.4	262.1	276.6	396.5	467.6	370.1	334.6	333.2
85°	195.0	205.5	231.9	191.0	151.5	169.9	291.1	335.9	279.2	246.3	251.6
87.5°	52.7	72.5	106.7	98.8	68.5	72.5	138.3	185.7	160.7	123.8	127.8
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)