

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: P970371

Luminaire Tested: **NAV-SB6B-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29139.7 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 220.4
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

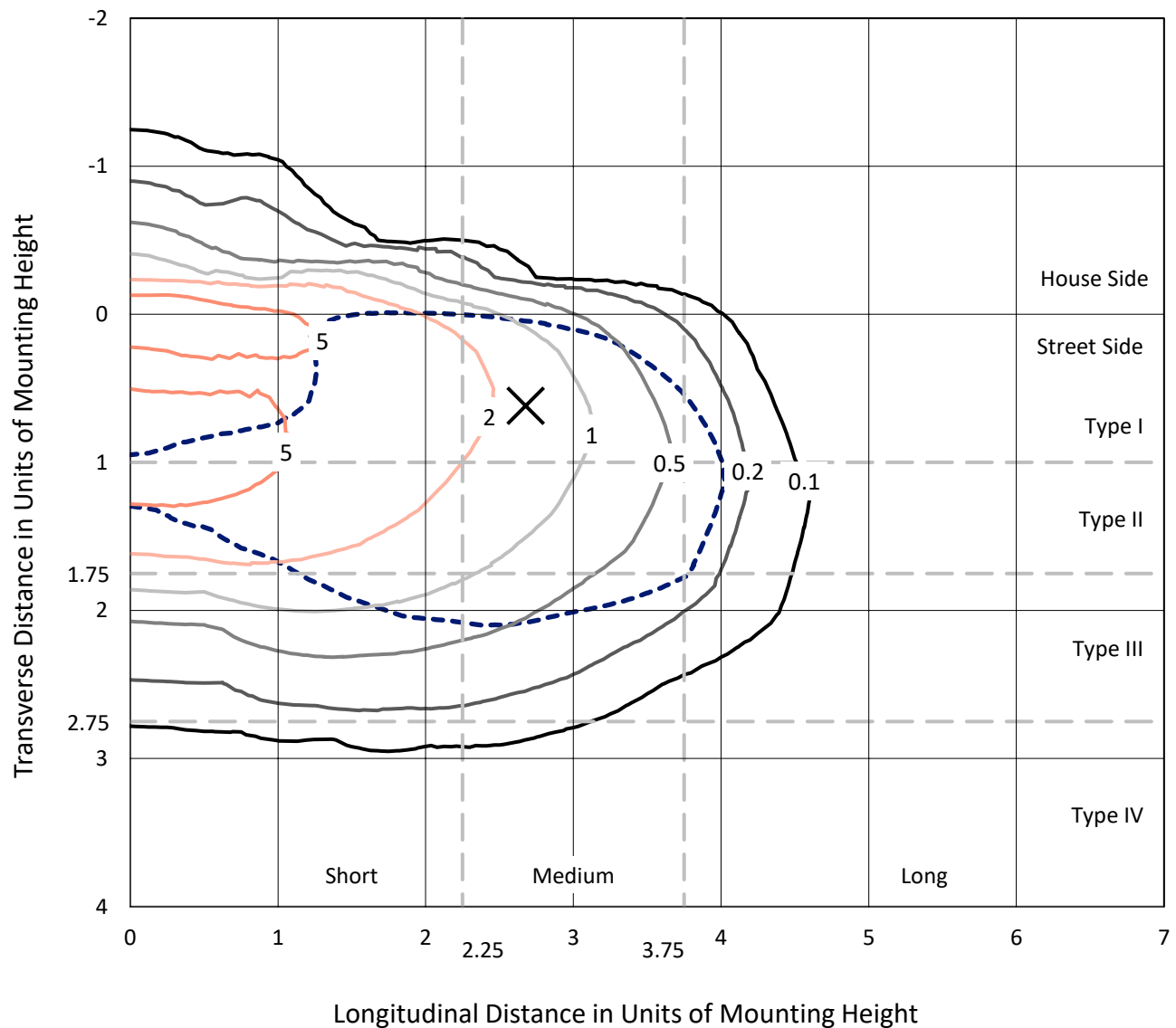


REPORT NUMBER: P970371

CATALOG NUMBER: NAV-SB6B-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

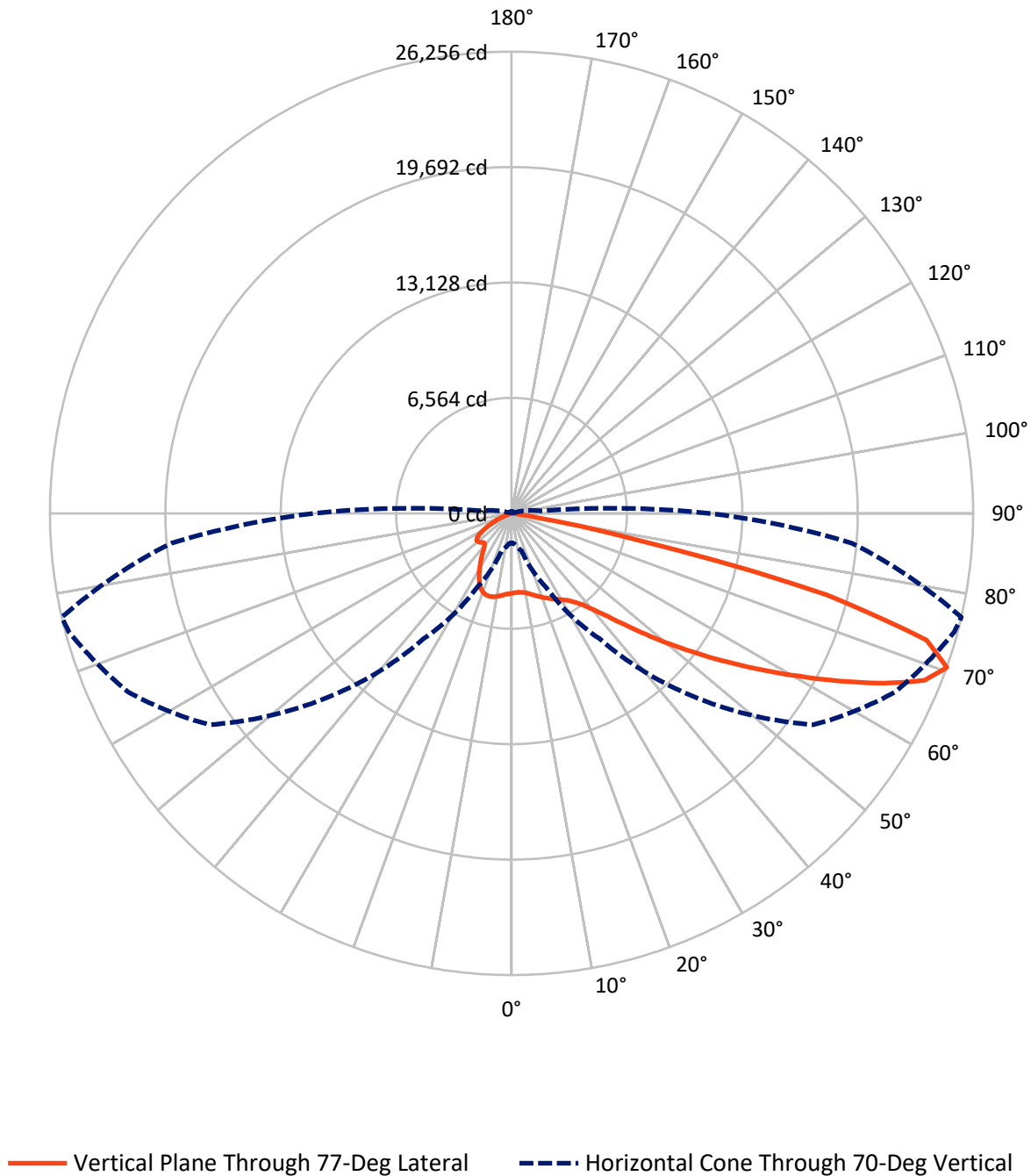
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type III - Medium - N/A

REPORT NUMBER: P970371
CATALOG NUMBER: NAV-SB6B-735-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P970371

CATALOG NUMBER: NAV-SB6B-735-U-T3R-HSS

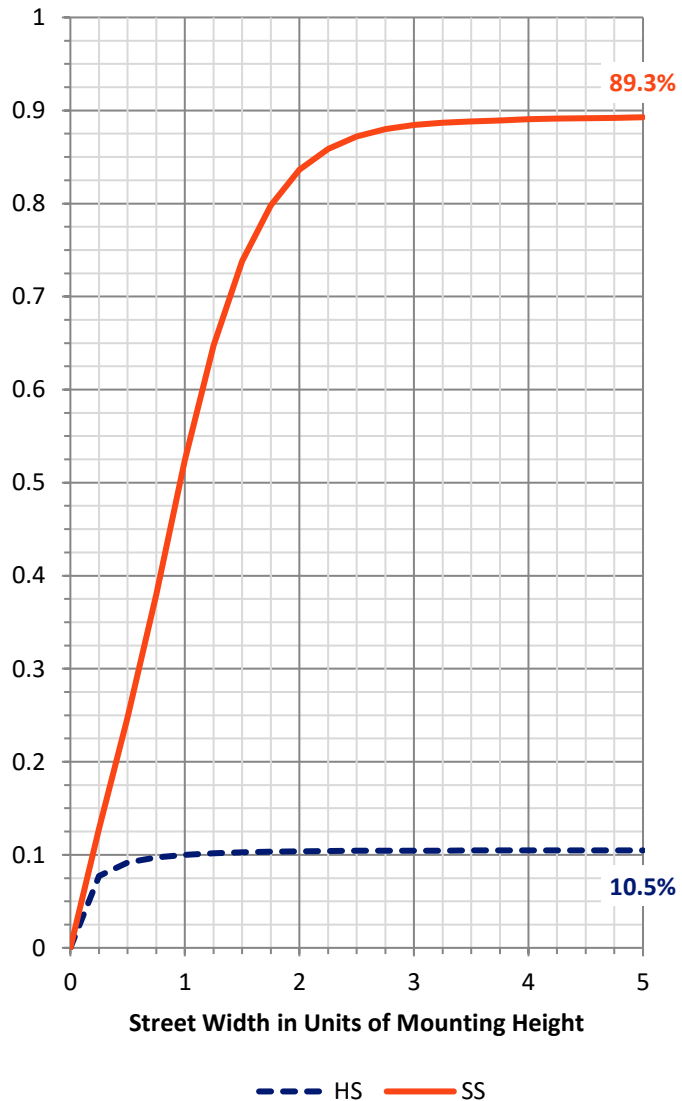
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3071.7	0.0	3071.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26068.0	0.0	26068.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	29139.7	0.0	29139.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	1.3
10°-20°	929.9	3.2
20°-30°	1438.3	4.9
30°-40°	2609.9	9.0
40°-50°	4926.6	16.9
50°-60°	7118.5	24.4
60°-70°	7577.4	26.0
70°-80°	4015.5	13.8
80°-90°	131.9	0.5
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°	29139.7	100.0
0°-180°	29139.7	100.0

Coefficient of Utilization



REPORT NUMBER: P970371

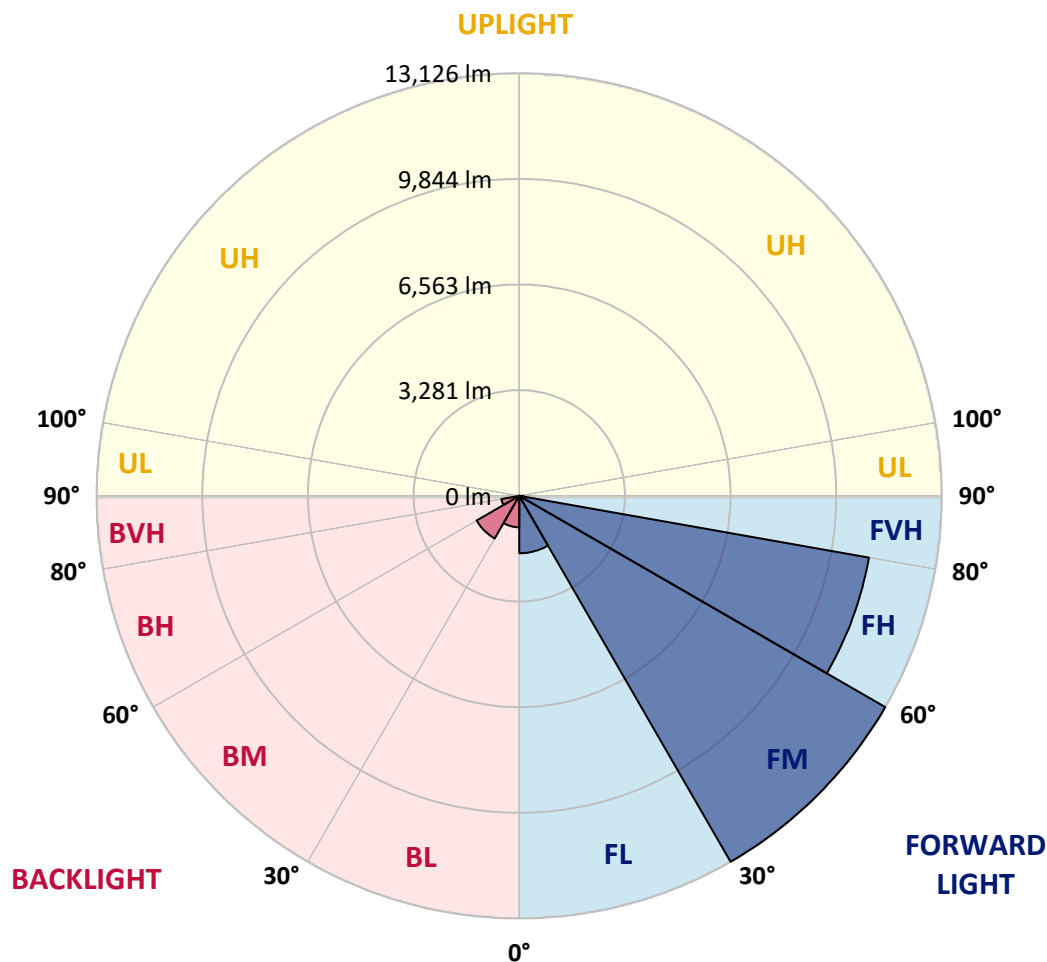
CATALOG NUMBER: NAV-SB6B-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1784.0	6.1			
FM	(30°-60°)	13125.8	45.0			
FH	(60°-80°)	11029.8	37.9			G4/12000
FVH	(80°-90°)	128.3	0.4			G2/225
BL	(0°-30°)	975.9	3.3	B2/1000		
BM	(30°-60°)	1529.1	5.2	B2/2500		
BH	(60°-80°)	563.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



REPORT NUMBER: P970371

CATALOG NUMBER: NAV-SB6B-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3
2.5°	4267.4	4306.0	4300.5	4326.3	4335.4	4372.3	4409.1	4458.8	4514.0	4512.2	4549.0
5°	4026.3	4064.9	4074.2	4109.1	4153.3	4210.4	4285.8	4385.2	4488.3	4504.8	4578.4
7.5°	3741.1	3781.6	3805.5	3875.4	3956.4	4074.2	4197.5	4342.8	4514.0	4537.9	4679.6
10°	3455.9	3492.7	3524.0	3623.4	3752.1	3927.0	4127.6	4337.3	4567.4	4602.4	4802.9
12.5°	3279.2	3314.1	3349.2	3435.6	3595.7	3809.2	4081.6	4363.1	4655.7	4705.4	4970.3
15°	3216.7	3247.9	3275.5	3352.9	3501.9	3744.8	4072.3	4416.4	4767.9	4834.2	5172.8
17.5°	3225.9	3242.4	3260.8	3319.7	3465.1	3715.3	4088.9	4508.5	4900.4	4959.4	5375.2
20°	3279.2	3288.4	3290.2	3330.7	3459.6	3711.6	4122.0	4596.8	5025.6	5104.7	5575.8
22.5°	3347.3	3351.0	3347.3	3374.9	3494.5	3739.3	4166.2	4703.5	5165.4	5239.0	5778.2
25°	3665.7	3595.7	3507.4	3454.0	3553.4	3792.6	4232.4	4847.0	5318.1	5390.0	5975.1
27.5°	4653.8	4453.2	4136.8	3781.6	3674.8	3869.9	4324.5	4992.5	5472.7	5537.2	6186.7
30°	6258.4	5995.3	5458.0	4657.5	4064.9	4031.8	4444.1	5137.8	5636.5	5706.4	6413.0
32.5°	7866.8	7802.4	7182.3	6074.5	4942.8	4392.5	4642.8	5334.7	5853.7	5908.8	6718.6
35°	9493.6	9362.9	8855.0	7760.1	6295.2	5126.7	4974.0	5592.3	6138.8	6201.5	7163.8
37.5°	10739.3	10660.2	10345.5	9443.8	7900.0	6260.3	5540.8	5991.6	6552.9	6622.8	7734.3
40°	11839.8	11803.0	11696.3	11101.9	9694.1	7743.6	6422.2	6609.9	7127.0	7209.8	8433.6
42.5°	12704.7	12791.2	12851.9	12686.3	11543.6	9436.5	7607.3	7478.5	7927.6	8012.2	9324.2
45°	13589.8	13619.3	13863.9	14103.2	13380.0	11206.7	8943.3	8496.1	8923.0	9028.0	10391.6
47.5°	14158.4	14276.2	14706.8	15128.2	14923.9	12962.3	10378.6	9697.8	10076.9	10273.8	11587.7
50°	14200.8	14423.4	15015.9	15750.1	16048.3	14633.2	11939.2	11066.9	11470.0	11687.0	12864.8
52.5°	13496.0	13841.9	14760.2	15834.8	16655.5	16048.3	13553.0	12436.0	12953.1	13236.4	14189.7
55°	10347.4	10800.1	13797.7	15374.8	16679.5	17121.1	15124.5	13862.2	14605.6	14925.7	15621.4
57.5°	9015.1	9243.2	10847.9	14576.1	16236.0	17553.5	16545.1	15220.2	16403.5	16801.0	16973.9
60°	7500.6	7800.6	9097.9	13269.6	15634.2	17595.9	17800.1	16972.1	18352.2	18799.4	18214.2
62.5°	5097.3	5423.1	6713.0	11024.6	14811.7	17575.7	18828.8	18775.4	20518.1	20998.5	19265.0
65°	3157.7	3362.0	4212.2	9002.2	13661.6	17597.7	19905.3	20965.2	22803.7	23291.3	20078.3
67.5°	2495.3	2589.1	3032.7	6911.8	11679.7	17100.9	20980.0	23024.5	24954.9	25341.3	20326.8
70°	1676.4	1733.5	2206.4	4633.6	8689.3	14808.0	20959.8	24058.7	26062.6	26255.9	19421.4
72.5°	883.2	927.4	1290.0	2145.6	5248.2	10525.9	17667.7	22822.0	24960.4	24669.6	16600.4
75°	441.7	515.3	868.6	1089.4	2241.4	5870.2	10971.2	17993.4	19645.9	18519.7	10651.0
77.5°	334.9	404.9	717.7	717.7	780.2	1976.4	4646.5	9813.8	9051.9	7537.4	3126.5
80°	213.5	276.0	627.5	542.8	325.7	502.4	1210.8	2749.3	1923.0	1463.0	568.7
82.5°	125.2	180.3	522.6	358.9	182.1	185.8	342.2	585.2	498.7	388.3	174.9
85°	49.7	117.8	358.9	141.7	71.8	46.0	103.0	125.2	103.0	77.3	44.2
87.5°	0.0	27.6	62.5	0.0	5.5	3.7	7.4	9.2	9.2	7.4	14.8
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: P970371

CATALOG NUMBER: NAV-SB6B-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3	4545.3
2.5°	4565.6	4569.1	4580.2	4582.1	4556.3	4523.2	4510.3	4504.8	4482.7	4480.9	4484.6
5°	4620.7	4637.3	4620.7	4572.8	4458.8	4298.6	4177.2	4077.9	3987.7	3960.1	3943.5
7.5°	4731.1	4747.7	4698.0	4510.3	4223.2	3904.8	3617.8	3415.4	3233.3	3165.1	3137.5
10°	4889.4	4911.5	4755.1	4375.9	3868.0	3356.5	2870.7	2528.5	2261.6	2153.0	2107.0
12.5°	5088.1	5097.3	4786.3	4171.8	3406.2	2675.7	1987.4	1621.2	1383.9	1295.5	1267.9
15°	5307.1	5294.2	4790.0	3893.9	2776.8	1891.7	1297.3	1065.5	969.8	940.3	940.3
17.5°	5537.2	5483.7	4716.4	3492.7	2086.8	1293.7	962.4	907.2	890.6	883.2	881.5
20°	5763.5	5643.9	4582.1	2968.2	1497.9	966.1	874.1	857.5	848.3	844.6	841.0
22.5°	5969.6	5765.3	4352.0	2359.1	1087.5	853.8	826.3	811.5	795.0	787.6	785.8
25°	6170.2	5835.2	4028.1	1790.5	870.4	798.7	776.5	749.0	726.8	717.7	714.0
27.5°	6365.2	5879.4	3623.4	1324.9	776.5	747.1	706.6	668.0	651.4	647.7	644.1
30°	6573.1	5894.2	3163.3	988.2	719.6	682.8	623.8	579.6	570.4	572.3	572.3
32.5°	6827.1	5916.2	2699.5	809.6	671.7	605.5	535.5	489.5	482.2	489.5	487.7
35°	7130.7	5960.4	2252.4	745.3	629.3	526.3	450.9	412.2	404.9	410.4	408.6
37.5°	7543.0	6032.1	1834.6	732.4	594.4	460.0	379.0	347.8	347.8	349.6	347.8
40°	8091.4	6223.5	1461.1	723.2	575.9	410.4	320.2	307.3	312.8	316.5	316.5
42.5°	8759.3	6630.2	1209.0	712.2	555.8	388.3	290.8	285.3	294.4	298.1	298.1
45°	9508.3	7145.5	1120.6	693.7	537.3	403.0	277.9	270.5	281.6	283.4	285.3
47.5°	10283.0	7649.7	1109.7	673.5	519.0	425.1	274.2	257.6	270.5	272.3	274.2
50°	11066.9	7979.1	1120.6	642.3	489.5	425.1	276.0	244.8	255.7	261.3	263.1
52.5°	11856.4	8130.0	1113.4	574.1	438.0	399.3	276.0	233.7	244.8	248.5	248.5
55°	12621.8	8100.5	1001.0	472.9	371.8	353.3	268.7	224.5	231.9	233.7	233.7
57.5°	13227.3	7690.2	793.1	368.1	301.8	294.4	244.8	213.5	218.9	217.1	217.1
60°	13543.8	6788.5	566.8	283.4	237.4	231.9	215.4	198.7	202.4	193.2	191.4
62.5°	13547.5	5596.0	379.0	224.5	189.5	184.0	184.0	178.5	174.9	156.4	150.9
65°	13258.6	4272.9	252.2	178.5	152.7	143.5	154.6	152.7	139.8	114.1	110.4
67.5°	12603.5	2800.8	191.4	139.8	117.8	112.2	123.3	128.8	119.6	95.7	93.9
70°	11256.4	1630.4	158.3	108.5	88.4	82.8	99.3	110.4	99.3	77.3	73.6
72.5°	9350.0	879.7	128.8	81.0	60.7	55.2	79.1	90.2	79.1	57.1	55.2
75°	6067.1	471.1	99.3	53.4	31.3	35.0	58.8	66.2	55.2	36.8	33.1
77.5°	2037.1	208.0	62.5	25.7	14.8	14.8	35.0	40.5	25.7	12.9	11.1
80°	454.5	86.5	25.7	11.1	5.5	5.5	7.4	7.4	3.7	0.0	0.0
82.5°	149.0	35.0	11.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	57.1	12.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)