

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: P968323

Luminaire Tested: **NAV-SB5B-750-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968323
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-SB5B-750-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30563.5 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

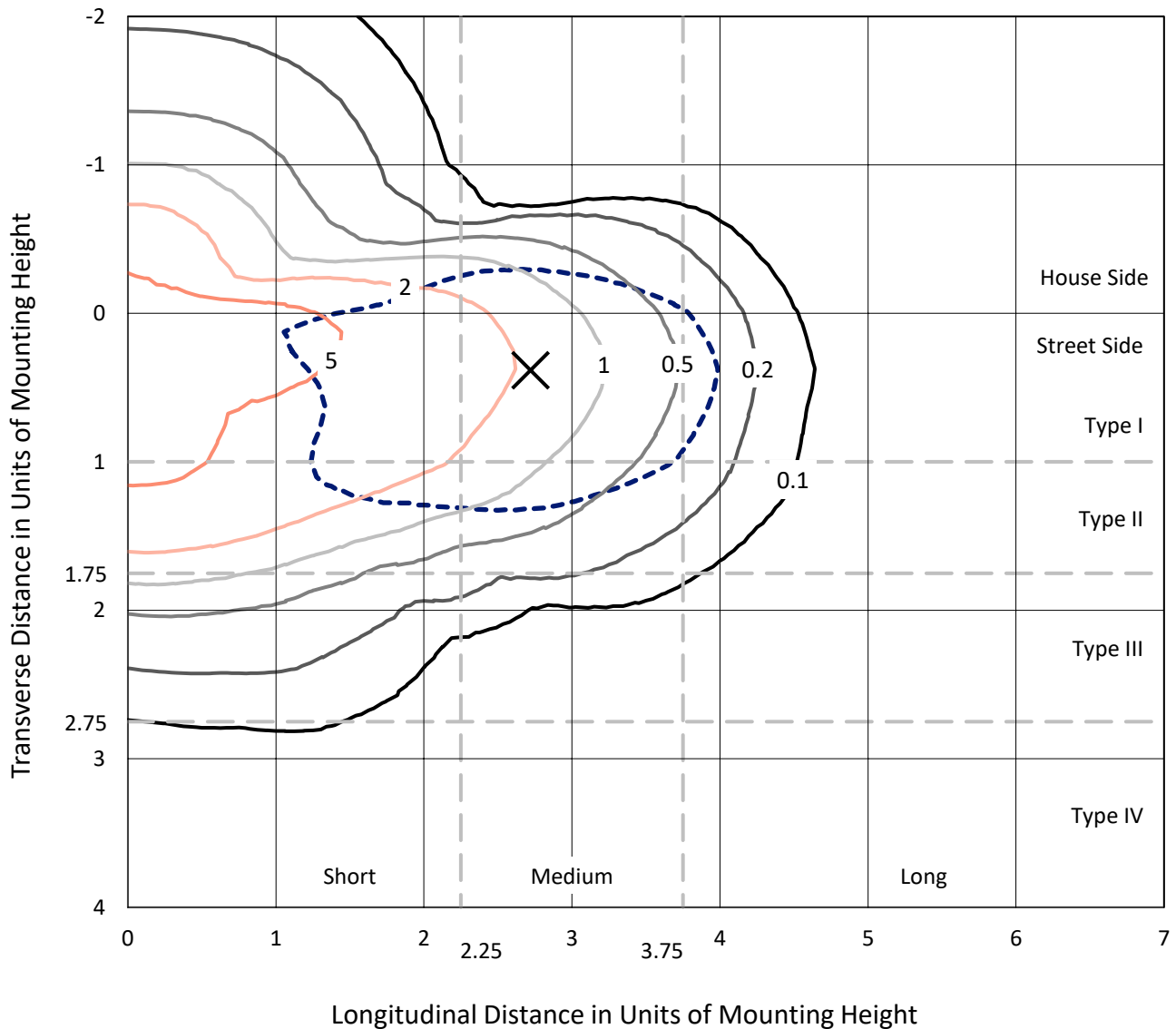
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968323
CATALOG NUMBER: NAV-SB5B-750-U-T2

Iso-Footcandle Lines of Horizontal Illumination

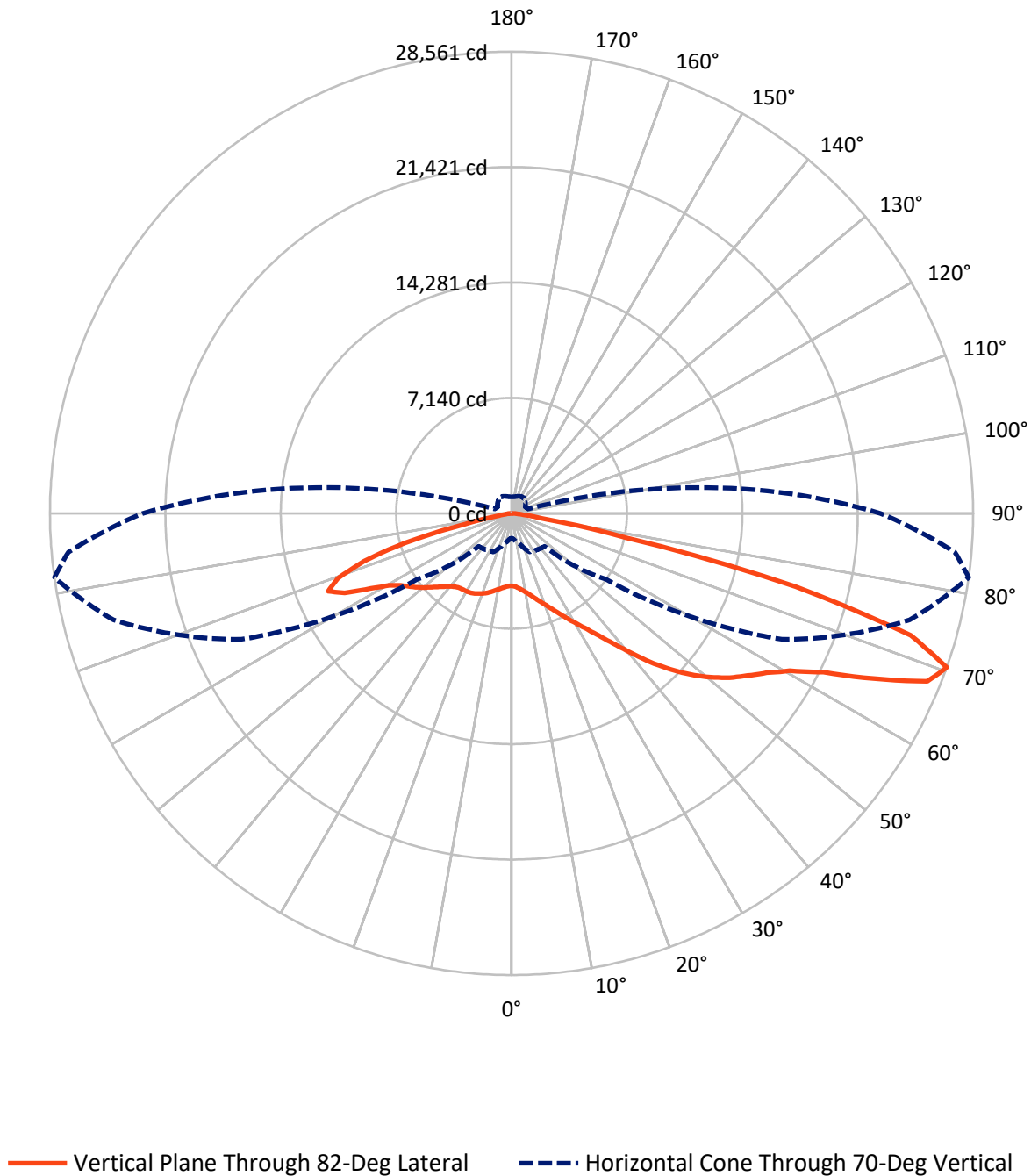
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type II - Medium - N/A

REPORT NUMBER: P968323
CATALOG NUMBER: NAV-SB5B-750-U-T2

Luminous Intensity Polar Plot



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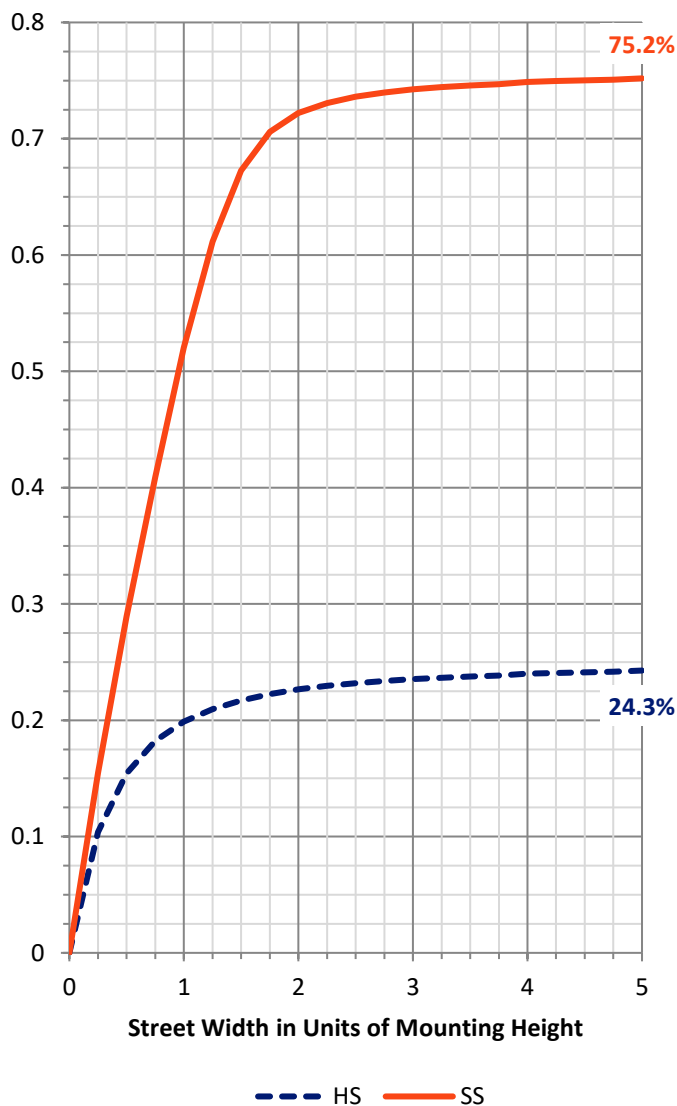
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7534.6	0.0	7534.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	23028.8	0.0	23028.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	30563.5	0.0	30563.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.4
10°-20°	1215.5	4.0
20°-30°	2033.5	6.7
30°-40°	3176.8	10.4
40°-50°	5059.5	16.6
50°-60°	7040.9	23.0
60°-70°	7365.1	24.1
70°-80°	3849.4	12.6
80°-90°	399.7	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°	30563.5	100.0
0°-180°	30563.5	100.0

Coefficient of Utilization



REPORT NUMBER: P968323

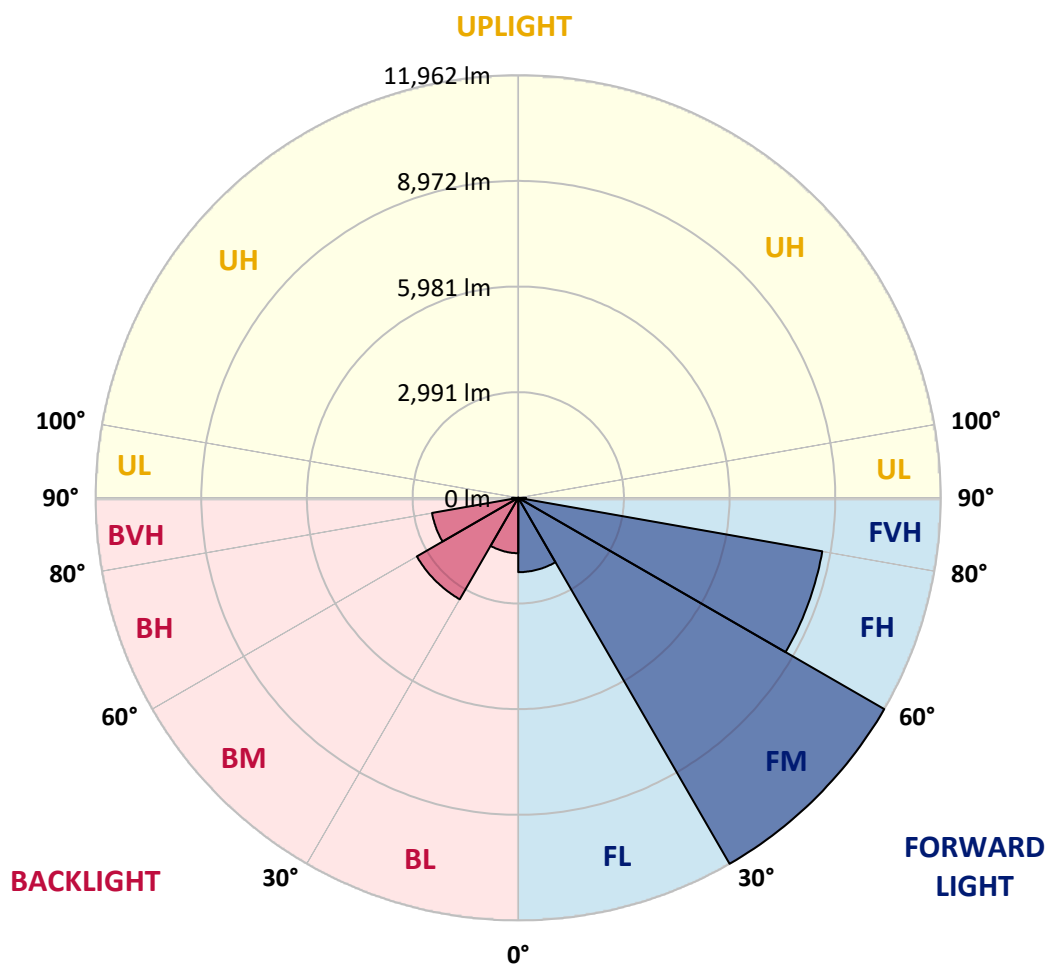
CATALOG NUMBER: NAV-SB5B-750-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2104.6	6.9			
FM	(30°-60°)	11962.2	39.1			
FH	(60°-80°)	8738.2	28.6			G4/12000
FVH	(80°-90°)	223.8	0.7			G2/225
BL	(0°-30°)	1567.5	5.1	B3/2500		
BM	(30°-60°)	3314.9	10.8	B3/5000		
BH	(60°-80°)	2476.3	8.1	B3/2500		G3/2500
BVH	(80°-90°)	176.0	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-G4

Type II Medium



REPORT NUMBER: P968323

CATALOG NUMBER: NAV-SB5B-750-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0
2.5°	4588.0	4613.9	4605.8	4597.7	4597.7	4586.4	4584.8	4568.5	4555.6	4534.5	4529.7
5°	4646.4	4674.0	4670.7	4677.2	4698.3	4703.2	4708.0	4698.3	4672.4	4646.4	4635.0
7.5°	4594.5	4625.3	4635.0	4674.0	4738.9	4797.2	4841.0	4858.9	4834.5	4797.2	4779.4
10°	4419.4	4453.4	4487.4	4579.9	4695.0	4832.9	4949.7	5019.4	5014.5	4978.8	4948.1
12.5°	4064.2	4099.9	4172.9	4352.9	4563.7	4806.9	5024.2	5170.2	5220.5	5194.6	5141.1
15°	3780.4	3811.2	3866.3	4051.2	4325.3	4695.0	5051.8	5335.6	5463.8	5449.2	5384.3
17.5°	3772.3	3785.2	3819.3	3906.9	4117.7	4519.9	5022.7	5497.8	5742.8	5741.1	5660.0
20°	3915.0	3919.8	3939.3	3957.1	4077.1	4386.9	4948.1	5632.5	6055.7	6055.7	5968.2
22.5°	4112.8	4109.6	4129.0	4112.8	4171.2	4375.5	4901.0	5750.9	6404.4	6430.3	6320.0
25°	4409.7	4393.5	4388.5	4351.2	4362.6	4481.0	4952.9	5885.4	6818.0	6871.5	6733.6
27.5°	4805.3	4779.4	4761.5	4675.6	4646.4	4698.3	5111.9	6047.6	7278.5	7371.0	7195.8
30°	5321.1	5274.0	5248.1	5098.9	4993.5	5001.6	5351.8	6263.4	7760.3	7909.4	7687.3
32.5°	6025.0	5952.0	5882.2	5637.3	5444.3	5381.0	5661.7	6561.7	8282.4	8520.8	8235.4
35°	6813.1	6754.7	6680.1	6302.2	6005.5	5859.5	6080.1	6978.5	8893.8	9271.7	8900.4
37.5°	7572.1	7521.9	7557.5	7048.3	6665.6	6453.1	6628.3	7538.1	9648.0	10205.9	9733.9
40°	8357.0	8318.1	8323.0	7836.4	7390.5	7152.0	7293.2	8240.3	10512.4	11316.8	10736.2
42.5°	9210.1	9180.9	9083.7	8652.2	8151.1	7928.9	8058.7	9051.2	11440.0	12581.8	11835.8
45°	10165.3	10147.5	10056.7	9562.0	8987.9	8738.1	8913.3	9946.4	12372.6	13772.2	12940.2
47.5°	10990.8	11005.4	10994.0	10577.3	9982.1	9615.5	9824.7	10880.6	13240.2	14891.2	13999.2
50°	11388.2	11464.4	11576.2	11446.6	11076.8	10703.8	10744.4	11782.3	14067.3	15940.5	15014.5
52.5°	11180.6	11324.9	11629.8	11837.4	11980.1	11902.3	11793.6	12677.5	14845.8	16887.6	15974.5
55°	10406.9	10609.7	11115.7	11616.8	12345.0	12911.0	13053.7	13670.0	15604.8	17721.2	16882.8
57.5°	8997.7	9326.9	9781.0	10794.6	12020.7	13399.2	14523.0	15046.9	16409.2	18611.5	17833.2
60°	6581.2	7022.3	7586.7	9094.9	10885.4	13138.0	15773.4	17161.7	17552.5	19764.7	19070.5
62.5°	4211.7	4484.3	5003.2	6423.9	8481.9	11800.1	16156.2	19805.2	19490.6	21655.7	20925.9
65°	2883.5	3058.7	3533.9	4331.8	5483.2	8783.5	15131.3	21787.0	22568.8	24652.7	24098.1
67.5°	2095.3	2228.4	2633.7	3332.8	3572.7	5197.8	11741.7	21696.2	25560.9	27740.6	26877.8
70°	1527.8	1621.8	1962.4	2633.7	2748.9	2891.6	7113.1	18442.9	25496.1	28561.2	27528.1
72.5°	1132.0	1196.9	1425.6	2043.4	2225.1	1952.6	3520.9	13404.0	21908.7	25833.4	25004.7
75°	819.0	867.7	1036.3	1563.4	1780.7	1487.2	1756.4	7833.3	15282.0	18172.0	18318.0
77.5°	626.0	663.3	773.6	1145.0	1425.6	1115.8	1089.9	3603.6	7246.1	7281.8	7690.5
80°	502.8	527.1	587.1	806.1	1093.1	835.2	710.3	1454.8	2290.0	1938.1	2033.7
82.5°	369.7	410.3	496.3	566.0	781.7	575.7	433.1	734.6	870.9	749.3	755.7
85°	210.8	238.4	300.0	405.5	499.5	351.9	248.2	326.0	405.5	332.5	296.7
87.5°	74.6	97.3	105.4	159.0	217.3	146.0	95.7	94.1	132.9	98.9	82.7
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: P968323

CATALOG NUMBER: NAV-SB5B-750-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0	4481.0
2.5°	4513.4	4505.3	4472.9	4429.1	4383.7	4339.8	4325.3	4294.4	4273.4	4262.1	4275.0
5°	4604.2	4578.3	4502.1	4404.7	4302.5	4192.4	4114.5	4043.1	3991.2	3942.6	3962.0
7.5°	4734.0	4688.6	4557.3	4386.9	4205.3	4022.0	3885.8	3782.0	3712.2	3666.8	3676.6
10°	4884.8	4815.0	4613.9	4359.3	4078.8	3816.1	3655.5	3566.3	3522.5	3498.2	3504.7
12.5°	5058.4	4959.4	4672.4	4296.1	3885.8	3585.8	3475.5	3449.5	3451.2	3452.8	3456.0
15°	5272.4	5134.5	4719.4	4158.2	3634.4	3408.9	3389.6	3431.7	3475.5	3496.6	3494.9
17.5°	5514.1	5319.4	4727.5	3931.2	3387.9	3295.5	3357.1	3447.9	3514.4	3543.6	3550.1
20°	5773.5	5507.5	4669.1	3610.0	3185.2	3203.0	3313.3	3430.1	3503.0	3540.4	3550.1
22.5°	6070.4	5708.6	4529.7	3272.7	3019.8	3102.5	3232.2	3345.7	3422.0	3459.3	3469.0
25°	6409.3	5934.1	4310.7	2988.9	2877.1	2988.9	3118.7	3212.8	3274.4	3308.4	3318.1
27.5°	6785.5	6169.3	4018.8	2763.5	2752.1	2872.2	2979.2	3052.2	3084.6	3110.6	3120.3
30°	7163.4	6383.3	3665.2	2593.2	2643.5	2757.0	2833.2	2865.7	2875.4	2880.2	2891.6
32.5°	7572.1	6568.2	3293.8	2452.1	2539.7	2645.1	2690.5	2705.2	2659.8	2628.9	2638.7
35°	8066.7	6766.0	2930.6	2340.3	2437.6	2528.4	2542.9	2530.0	2476.5	2413.3	2416.4
37.5°	8678.2	7012.5	2640.3	2260.7	2341.8	2401.9	2384.0	2380.8	2385.7	2311.1	2315.9
40°	9427.4	7333.7	2427.8	2199.1	2264.0	2276.9	2226.7	2254.3	2278.6	2165.1	2168.3
42.5°	10259.4	7721.3	2293.2	2157.0	2199.1	2168.3	2090.5	2121.3	2118.1	1968.8	1967.2
45°	11107.6	8143.0	2246.2	2126.2	2139.2	2077.5	1991.6	1999.7	1931.5	1796.9	1801.8
47.5°	11950.9	8595.4	2275.4	2100.2	2064.6	1994.8	1928.3	1892.7	1792.1	1691.6	1691.6
50°	12778.1	9070.6	2382.4	2048.4	1962.4	1921.8	1873.2	1809.9	1702.8	1616.9	1610.5
52.5°	13545.2	9549.0	2502.4	1962.4	1834.2	1858.5	1827.8	1754.8	1649.3	1561.8	1563.4
55°	14271.7	10027.5	2549.5	1844.0	1714.2	1803.4	1785.6	1651.0	1524.5	1453.1	1446.6
57.5°	15063.1	10603.2	2497.5	1693.1	1616.9	1740.1	1672.1	1522.8	1449.9	1396.4	1391.5
60°	16159.4	11506.5	2385.7	1506.6	1524.5	1646.2	1529.3	1467.7	1388.3	1328.2	1325.0
62.5°	17980.7	13191.5	2205.6	1321.7	1415.8	1506.6	1461.2	1399.6	1318.6	1260.1	1260.1
65°	20672.8	15533.5	1866.6	1177.4	1294.2	1370.4	1388.3	1326.7	1242.3	1180.7	1183.9
67.5°	22943.4	17002.8	1412.6	1057.4	1169.3	1260.1	1310.4	1250.4	1161.2	1101.2	1102.8
70°	22818.4	15935.7	1078.5	939.0	1059.0	1151.5	1216.4	1169.3	1073.6	1016.9	1021.7
72.5°	20267.4	13331.0	872.5	819.0	947.1	1037.9	1115.8	1080.1	982.8	927.6	927.6
75°	14889.6	9463.1	697.4	697.4	807.6	919.5	1005.5	982.8	893.6	854.6	843.4
77.5°	6276.3	3970.1	546.5	579.0	671.4	789.8	896.9	905.0	827.1	875.8	794.7
80°	1668.8	1094.7	416.8	455.7	527.1	652.0	780.1	776.8	692.5	647.1	601.7
82.5°	635.7	431.4	296.7	321.1	381.1	499.5	617.9	637.3	553.0	478.5	478.5
85°	244.9	184.9	183.3	193.0	222.2	330.9	467.1	483.3	416.8	353.5	364.9
87.5°	63.2	55.1	68.2	64.9	102.2	176.8	267.6	277.4	254.6	147.6	210.8
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)