

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: P970368

Luminaire Tested: **NAV-SB6B-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35470.1 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - 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

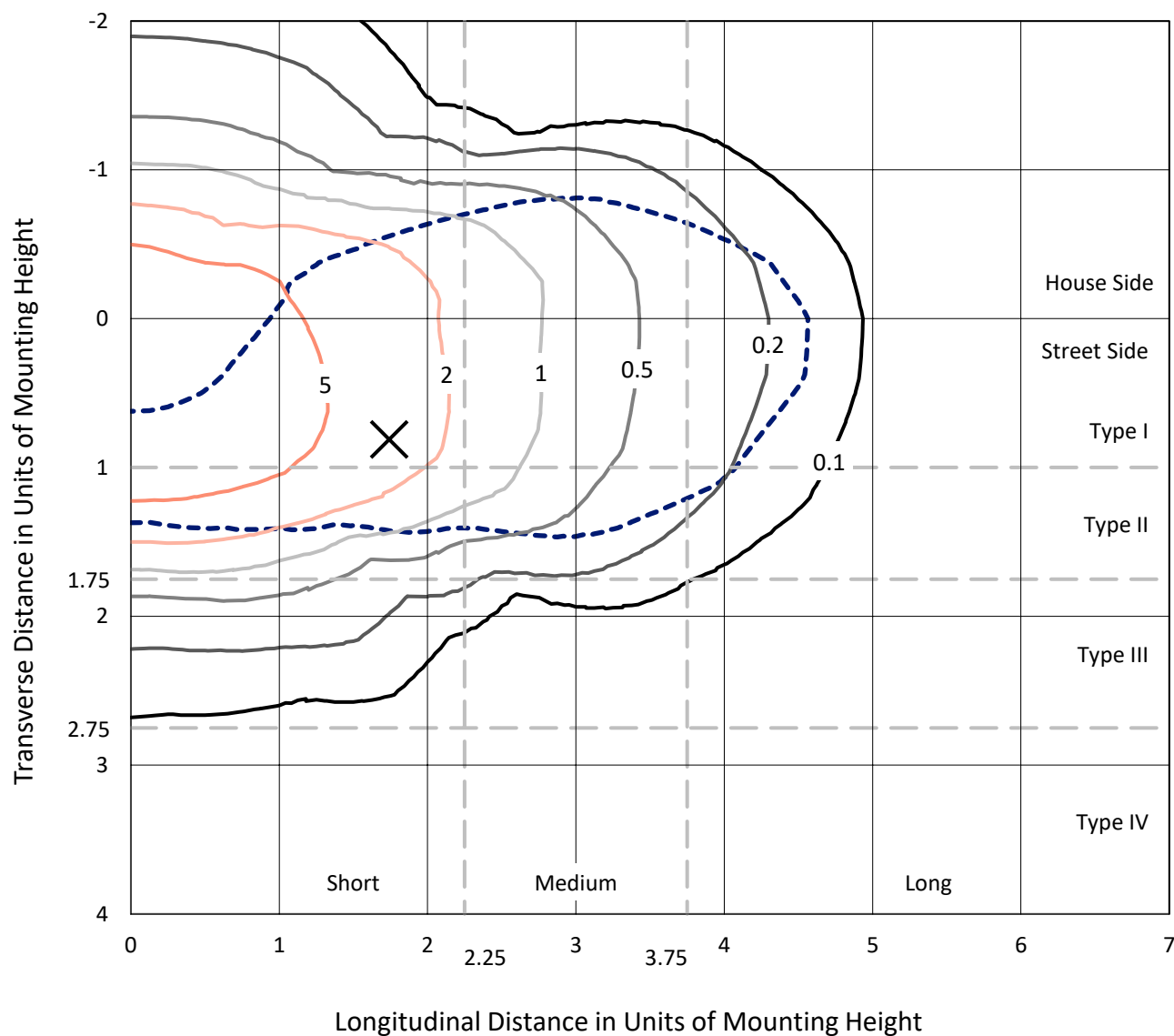


REPORT NUMBER: P970368

CATALOG NUMBER: NAV-SB6B-735-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

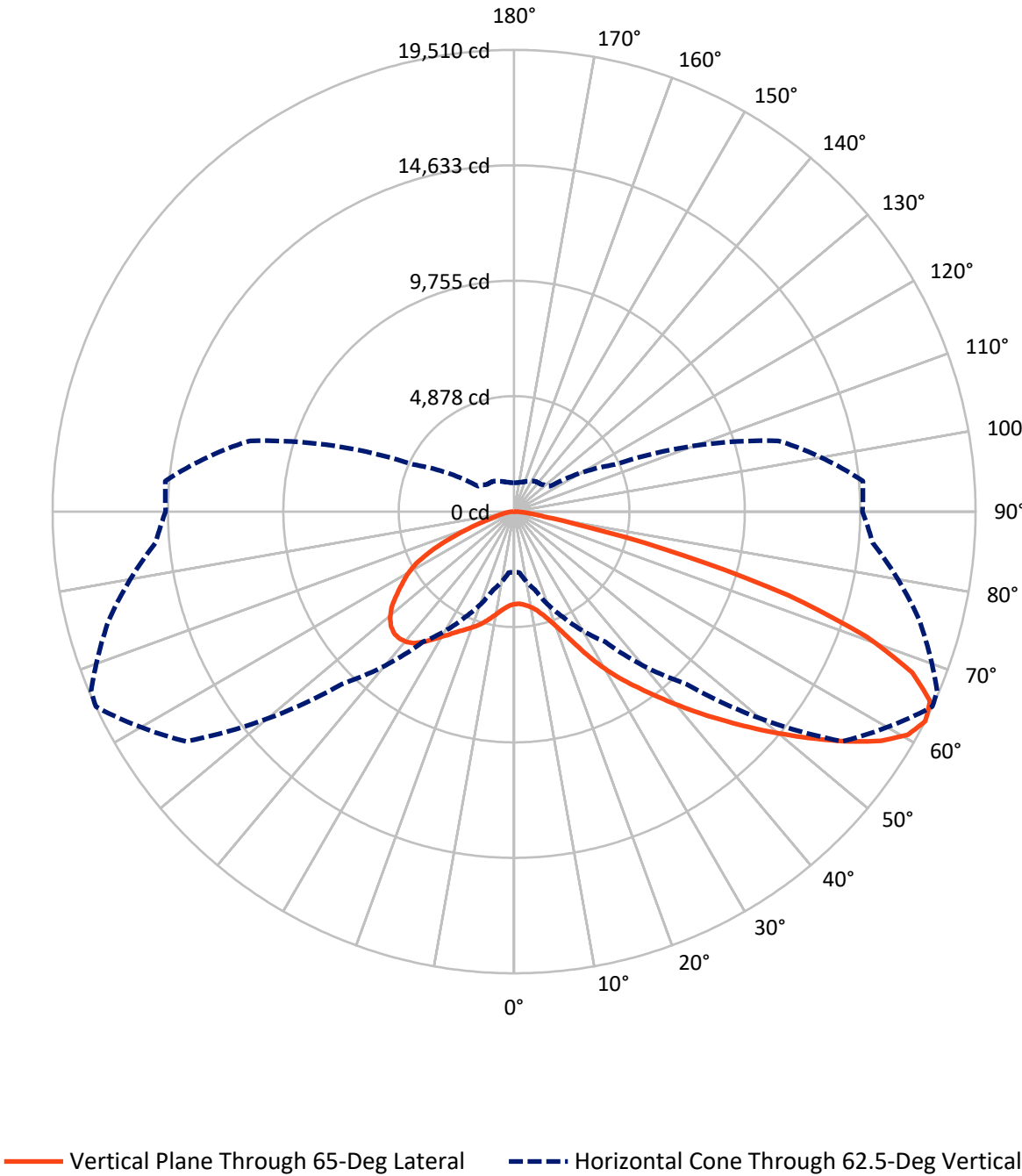
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type II - Short - N/A

REPORT NUMBER: P970368
CATALOG NUMBER: NAV-SB6B-735-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P970368

CATALOG NUMBER: NAV-SB6B-735-U-T2U

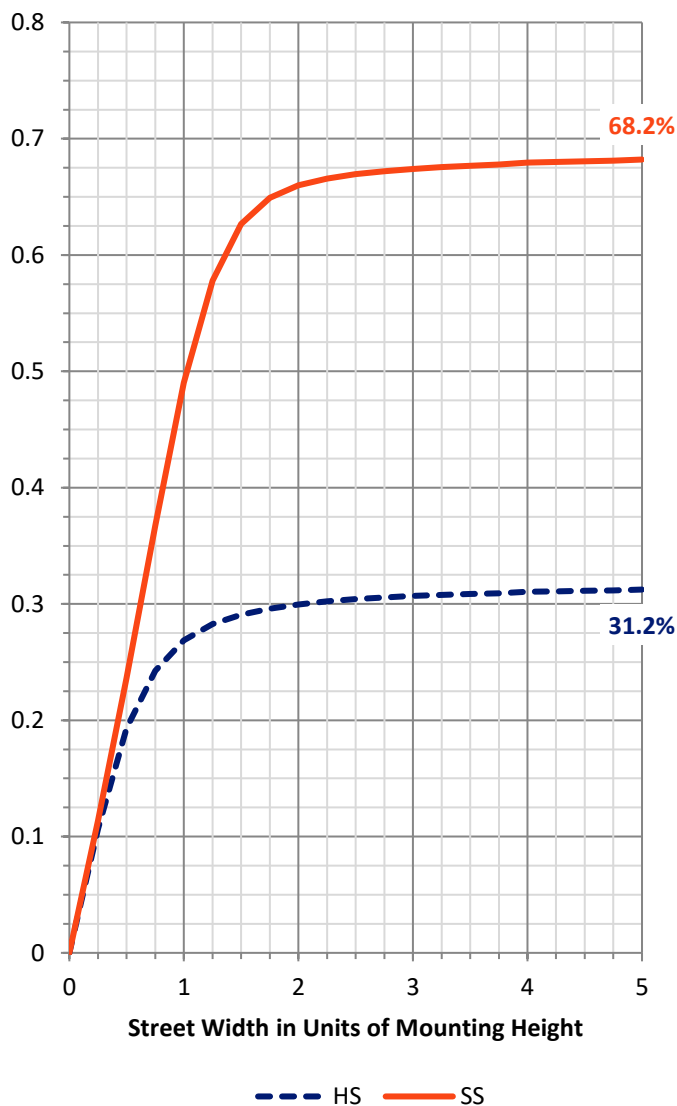
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11192.8	0.0	11192.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24277.3	0.0	24277.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	35470.1	0.0	35470.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.7	1.1
10°-20°	1321.5	3.7
20°-30°	2679.4	7.6
30°-40°	4636.7	13.1
40°-50°	7016.7	19.8
50°-60°	8226.7	23.2
60°-70°	6897.1	19.4
70°-80°	3807.7	10.7
80°-90°	494.6	1.4
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°	35470.1	100.0
0°-180°	35470.1	100.0

Coefficient of Utilization



REPORT NUMBER: P970368

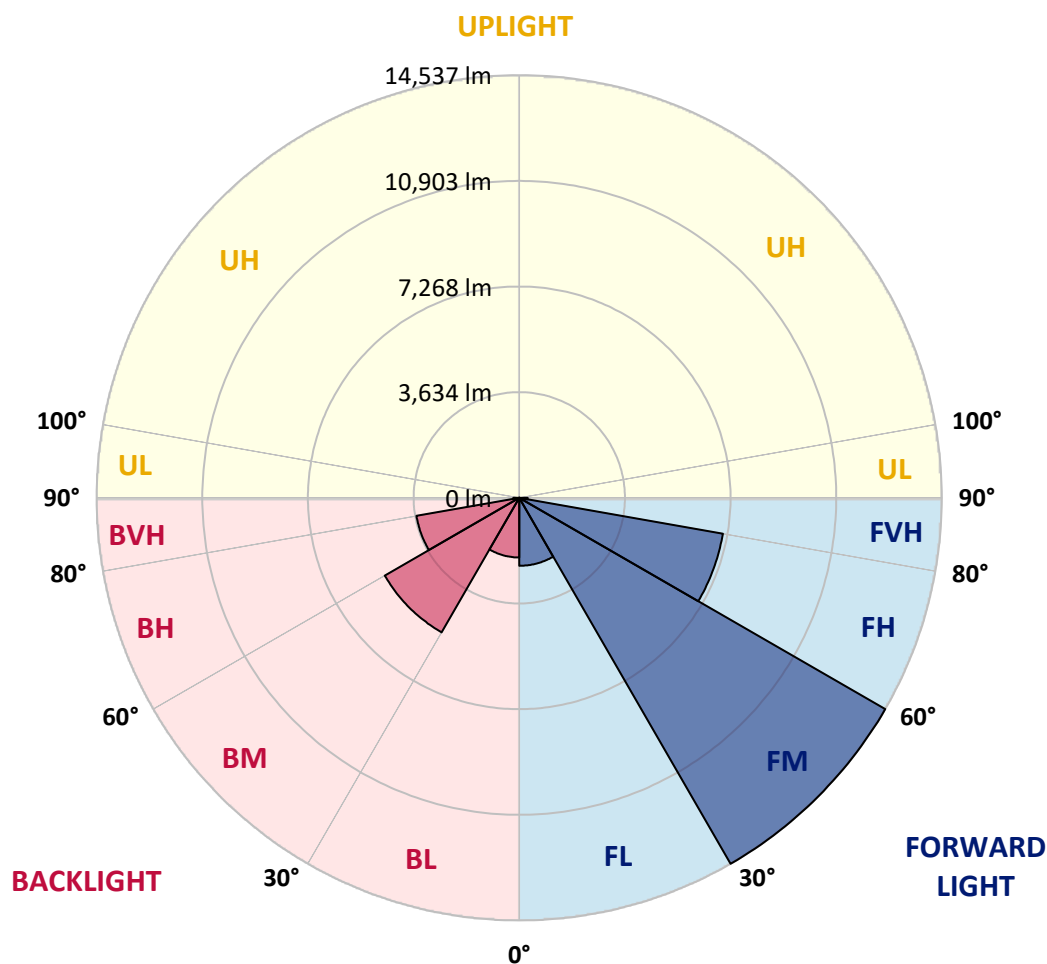
CATALOG NUMBER: NAV-SB6B-735-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2338.0	6.6			
FM	(30°-60°)	14536.8	41.0			
FH	(60°-80°)	7114.3	20.1			G3/7500
FVH	(80°-90°)	288.3	0.8			G3/500
BL	(0°-30°)	2052.6	5.8	B3/2500		
BM	(30°-60°)	5343.3	15.1	B4/8500		
BH	(60°-80°)	3590.6	10.1	B4/5000		G4/5000
BVH	(80°-90°)	206.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P970368

CATALOG NUMBER: NAV-SB6B-735-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6
2.5°	3882.9	3871.8	3881.1	3881.1	3884.7	3882.9	3895.8	3899.4	3904.9	3916.0	3916.0
5°	3844.3	3842.4	3858.9	3873.7	3888.4	3901.3	3917.9	3941.7	3945.4	3958.3	3975.0
7.5°	3831.3	3820.3	3846.1	3864.5	3899.4	3930.8	3975.0	4015.4	4031.9	4037.5	4068.7
10°	3930.8	3912.3	3936.3	3947.3	3976.7	4008.1	4059.5	4124.0	4142.3	4164.5	4199.4
12.5°	4100.0	4079.8	4114.8	4131.4	4158.9	4186.5	4221.5	4284.1	4293.2	4333.7	4366.9
15°	4332.0	4308.0	4330.1	4350.3	4396.3	4422.1	4457.0	4517.8	4517.8	4549.1	4572.9
17.5°	4646.6	4615.3	4631.9	4639.3	4668.7	4707.3	4766.2	4819.5	4847.1	4836.2	4803.0
20°	5115.9	5077.2	5077.2	5040.4	5029.4	5060.6	5137.9	5211.5	5241.0	5183.9	5103.0
22.5°	5820.7	5765.4	5734.2	5609.0	5559.3	5563.0	5640.3	5730.5	5754.5	5653.2	5471.0
25°	6716.8	6630.3	6588.0	6404.0	6291.8	6194.2	6255.0	6370.9	6404.0	6278.8	5984.5
27.5°	7613.1	7618.5	7578.0	7357.2	7171.4	6992.9	6961.6	7083.1	7118.0	6976.4	6612.0
30°	8869.9	8739.3	8662.0	8397.0	8131.9	7881.7	7752.9	7802.6	7811.8	7642.5	7219.3
32.5°	9953.8	9920.7	9755.0	9523.2	9182.8	8790.8	8575.5	8496.3	8481.7	8240.6	7738.1
35°	11188.6	11170.2	10995.4	10719.3	10351.3	9806.6	9418.3	9192.0	9173.5	8835.0	8251.6
37.5°	12443.6	12443.6	12272.5	11970.7	11589.8	10908.9	10318.2	9959.3	9900.5	9458.8	8774.2
40°	13444.7	13384.0	13415.3	13288.3	12852.2	12128.9	11317.4	10796.6	10717.5	10187.6	9330.0
42.5°	14013.4	13993.1	14180.9	14322.5	14144.1	13566.2	12417.9	11703.9	11593.5	10989.8	9970.4
45°	14140.4	14118.2	14453.2	14972.2	15222.4	14985.0	13614.0	12659.0	12524.6	11829.0	10656.8
47.5°	13847.7	13803.6	14295.0	15113.8	15916.2	16333.9	14909.5	13695.0	13500.0	12646.0	11361.6
50°	12968.1	12925.8	13669.3	14756.8	16149.9	17250.3	16315.5	14793.6	14495.6	13522.0	12073.8
52.5°	11056.2	11076.4	12241.3	13735.5	15842.6	17820.9	17526.4	15951.2	15592.3	14418.3	12741.8
55°	8612.3	8656.4	10088.2	11733.3	14613.3	17734.3	18352.6	17143.6	16786.6	15261.0	13431.9
57.5°	6166.6	6361.7	7703.2	9331.8	12252.2	16363.3	18533.0	18277.2	17931.2	16181.2	14107.2
60°	3997.0	4031.9	5412.1	7053.6	9330.0	13926.9	18166.8	19136.5	18866.0	17119.7	14672.2
62.5°	2561.6	2585.6	3426.5	4933.6	6715.0	10303.5	16933.8	19510.2	19427.3	17739.9	15215.0
65°	1882.5	1864.2	2302.1	3260.9	4523.3	6354.3	14539.7	19329.8	19493.6	18128.1	15664.0
67.5°	1571.5	1545.8	1761.1	2258.0	3332.7	3608.7	10758.0	18157.6	18757.5	18084.0	15993.5
70°	1431.7	1409.6	1540.3	1676.5	2600.2	2416.2	5423.2	15785.5	16709.3	17581.6	15940.1
72.5°	1212.7	1174.0	1352.6	1488.7	2022.4	1853.1	2241.4	12125.3	13251.5	15971.3	15189.3
75°	940.3	914.6	1067.3	1310.3	1520.1	1446.4	1417.0	7362.8	8592.1	12351.7	13288.3
77.5°	745.3	710.3	850.2	1021.3	1367.2	1091.2	1032.4	3170.7	4388.9	7885.4	9942.8
80°	561.3	530.0	646.0	807.9	1050.7	822.6	668.0	1293.7	1654.4	3995.1	5000.0
82.5°	399.3	371.8	450.9	592.6	706.6	737.9	410.4	725.1	815.2	1540.3	1117.0
85°	255.8	239.2	301.8	371.8	449.1	474.8	250.3	379.0	415.8	634.9	465.6
87.5°	139.8	114.1	162.0	173.0	208.0	189.5	119.6	138.1	149.0	230.0	196.9
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: P970368

CATALOG NUMBER: NAV-SB6B-735-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6	3908.6
2.5°	3923.4	3928.9	3947.3	3952.8	3965.7	3982.2	3993.3	4004.4	4004.4	4015.4	4015.4
5°	3976.7	3989.6	4028.2	4048.5	4081.7	4114.8	4135.0	4158.9	4173.7	4181.0	4184.7
7.5°	4079.8	4100.0	4155.2	4190.2	4247.3	4293.2	4324.6	4357.7	4365.1	4385.3	4377.9
10°	4219.6	4243.6	4306.1	4372.3	4440.5	4497.5	4527.0	4550.9	4560.1	4563.8	4554.6
12.5°	4379.7	4414.7	4495.6	4576.6	4648.5	4698.1	4705.5	4699.9	4674.2	4652.1	4652.1
15°	4576.6	4608.0	4698.1	4786.4	4856.3	4865.6	4819.5	4790.1	4758.9	4753.3	4753.3
17.5°	4812.2	4828.8	4911.6	4998.1	5003.6	4972.3	4904.2	4876.6	4847.1	4826.9	4828.8
20°	5086.4	5080.9	5139.8	5176.6	5137.9	5042.3	4939.2	4893.1	4863.7	4839.8	4841.7
22.5°	5413.9	5371.6	5364.2	5355.1	5252.0	5051.4	4911.6	4852.7	4806.7	4773.5	4784.6
25°	5890.6	5728.6	5616.4	5553.9	5321.9	5001.8	4823.2	4692.6	4606.1	4549.1	4571.1
27.5°	6486.8	6214.5	5931.1	5778.3	5321.9	4900.5	4609.7	4398.2	4256.4	4197.6	4227.0
30°	7055.5	6770.2	6352.4	6048.8	5309.1	4734.9	4265.6	3971.3	3805.6	3746.7	3781.6
32.5°	7541.2	7230.2	6799.6	6345.2	5277.8	4466.2	3838.7	3513.0	3352.9	3283.0	3317.9
35°	7992.1	7660.8	7248.7	6670.8	5195.0	4072.4	3369.5	3121.0	2942.6	2830.2	2867.1
37.5°	8454.0	8060.2	7673.8	6965.3	5045.9	3612.4	3008.8	2797.1	2587.4	2436.4	2476.9
40°	8956.4	8485.4	8128.4	7140.2	4801.2	3174.4	2729.1	2535.8	2313.2	2153.1	2184.4
42.5°	9543.5	8995.1	8634.4	7230.2	4466.2	2863.4	2546.9	2357.3	2147.6	2016.9	2042.6
45°	10156.2	9556.3	9096.3	7228.4	4092.7	2718.0	2488.0	2300.3	2068.4	1932.2	1954.4
47.5°	10798.5	10143.4	9495.6	7110.6	3768.8	2738.3	2454.9	2177.0	1921.2	1788.7	1807.1
50°	11442.6	10785.6	9882.0	6889.8	3630.8	2694.1	2331.6	2004.0	1702.2	1582.6	1590.0
52.5°	12081.2	11468.3	10215.2	6575.2	3490.9	2530.3	2173.3	1779.5	1612.0	1529.2	1529.2
55°	12723.3	12143.7	10577.7	6116.9	3141.3	2338.9	1908.3	1694.8	1540.3	1464.8	1457.4
57.5°	13367.4	12923.9	10921.8	5658.7	2701.5	2103.4	1762.9	1591.8	1468.5	1404.1	1393.1
60°	14037.3	13816.5	11276.9	5237.3	2267.2	1801.5	1656.2	1509.0	1383.9	1312.1	1306.6
62.5°	14727.4	14799.2	11554.8	4694.4	1867.9	1617.6	1560.6	1409.6	1288.1	1220.1	1218.2
65°	15423.0	15746.9	11737.0	3941.7	1514.5	1442.8	1457.4	1301.0	1177.7	1118.9	1117.0
67.5°	15947.5	16429.6	11685.5	2983.1	1242.2	1277.1	1328.6	1186.9	1071.0	1025.0	1026.8
70°	16006.3	16348.6	11177.5	2042.6	1039.8	1115.2	1185.1	1074.7	955.1	922.0	923.8
72.5°	15222.4	15244.5	9762.4	1334.1	879.7	979.0	1034.2	960.6	844.7	811.5	809.7
75°	13166.8	12607.4	7167.7	879.7	736.1	841.0	892.5	841.0	728.8	736.1	710.3
77.5°	9975.9	8928.8	4352.2	625.7	614.6	706.6	776.5	739.7	644.1	723.2	636.7
80°	5139.8	4830.6	1941.5	467.4	485.8	565.0	638.6	590.7	509.7	485.8	443.5
82.5°	1177.7	1369.1	765.6	335.0	351.5	406.7	487.7	443.5	366.2	309.1	305.4
85°	412.3	450.9	338.6	209.8	206.1	254.0	331.3	296.3	248.5	198.7	209.8
87.5°	130.7	171.2	127.0	84.7	88.4	114.1	152.7	139.8	115.9	75.4	79.1
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)