

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: P968777

Luminaire Tested: **NAV-SB5C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

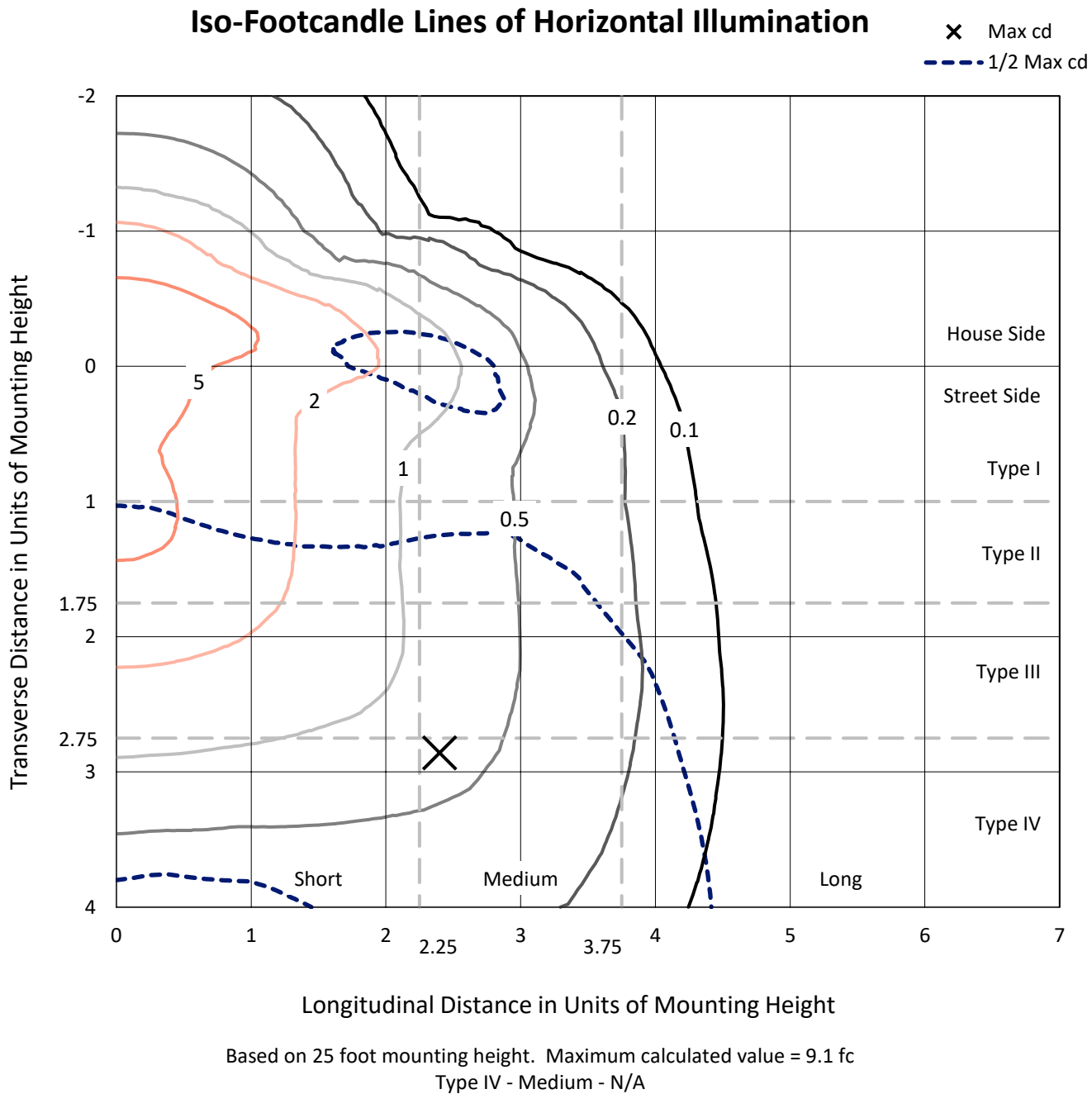
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38437.5 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 249.5
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

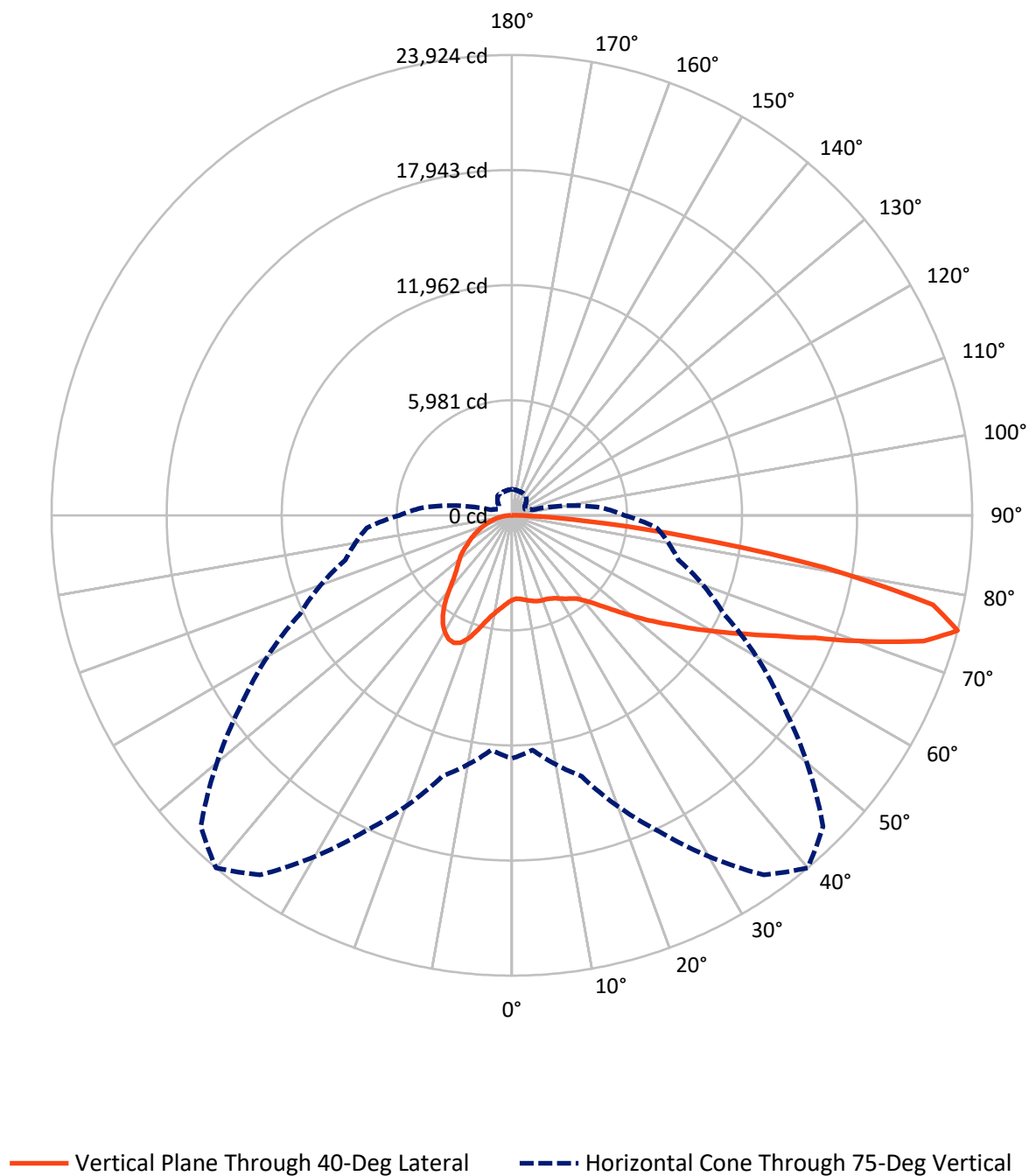


REPORT NUMBER: P968777
CATALOG NUMBER: NAV-SB5C-735-U-SL4



REPORT NUMBER: P968777
CATALOG NUMBER: NAV-SB5C-735-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P968777

CATALOG NUMBER: NAV-SB5C-735-U-SL4

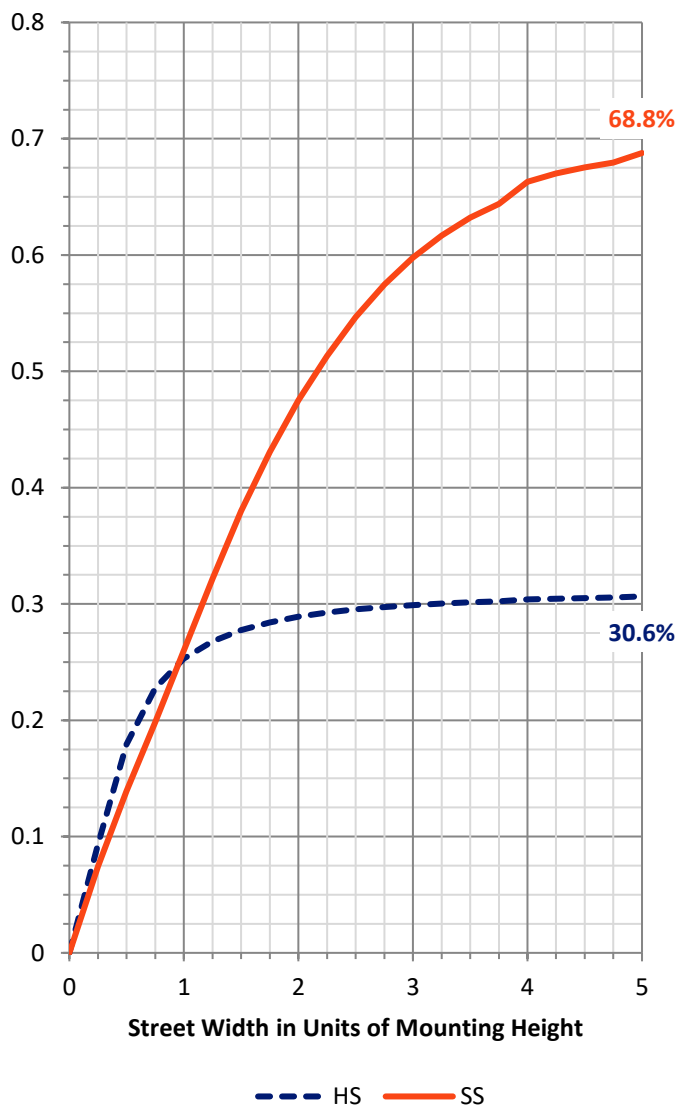
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11909.2	0.0	11909.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	26528.3	0.0	26528.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	38437.5	0.0	38437.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.7	1.1
10°-20°	1473.1	3.8
20°-30°	2689.7	7.0
30°-40°	3814.7	9.9
40°-50°	5151.0	13.4
50°-60°	6929.5	18.0
60°-70°	8795.1	22.9
70°-80°	7982.1	20.8
80°-90°	1163.5	3.0
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°	38437.5	100.0
0°-180°	38437.5	100.0

Coefficient of Utilization



REPORT NUMBER: P968777

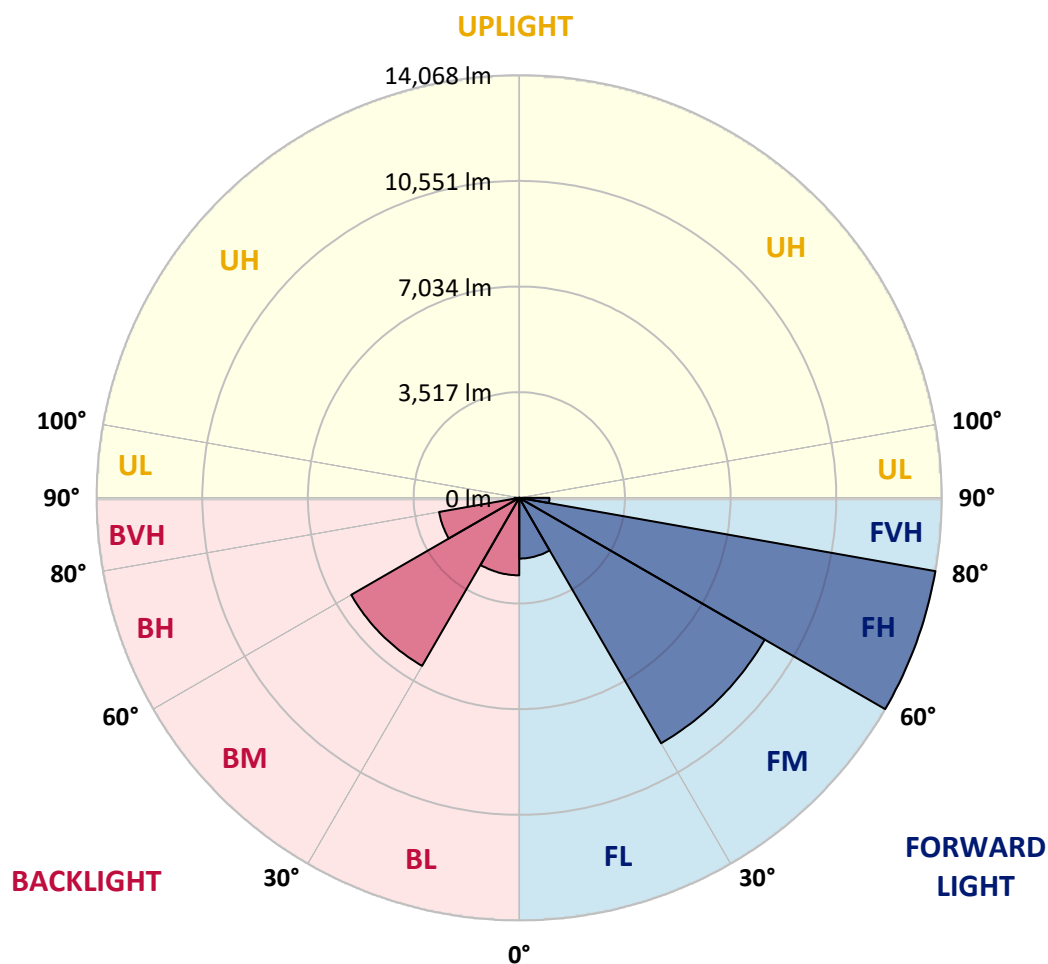
CATALOG NUMBER: NAV-SB5C-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2021.8	5.3			
FM	(30°-60°)	9435.5	24.5			
FH	(60°-80°)	14067.5	36.6			G5
FVH	(80°-90°)	1003.3	2.6			G5
BL	(0°-30°)	2579.6	6.7	B4/5000		
BM	(30°-60°)	6459.7	16.8	B4/8500		
BH	(60°-80°)	2709.7	7.0	B4/5000		G4/5000
BVH	(80°-90°)	160.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P968777

CATALOG NUMBER: NAV-SB5C-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4
2.5°	4328.1	4352.6	4346.4	4338.3	4338.3	4340.4	4338.3	4352.6	4366.8	4381.2	4403.5
5°	4373.0	4397.5	4385.2	4375.0	4366.8	4364.8	4358.7	4356.7	4364.8	4383.1	4413.8
7.5°	4460.6	4485.1	4466.7	4448.4	4432.1	4423.9	4415.8	4403.5	4397.5	4407.6	4450.4
10°	4558.5	4583.0	4560.5	4527.9	4501.4	4491.2	4483.0	4470.8	4462.6	4468.8	4515.6
12.5°	4656.4	4680.8	4650.2	4605.3	4570.7	4564.6	4554.4	4550.3	4548.2	4546.3	4593.1
15°	4748.1	4768.5	4729.8	4676.7	4640.0	4629.8	4619.7	4625.7	4636.0	4648.2	4701.2
17.5°	4819.4	4839.8	4782.8	4713.5	4678.7	4674.7	4668.6	4689.0	4717.5	4748.1	4813.3
20°	4884.6	4905.0	4831.6	4737.9	4697.1	4697.1	4699.1	4742.0	4782.8	4827.5	4917.2
22.5°	4976.4	4992.7	4903.0	4774.6	4715.4	4719.5	4735.8	4778.7	4829.6	4890.8	5015.1
25°	5113.0	5125.2	5015.1	4843.8	4776.6	4788.8	4803.2	4823.5	4872.4	4943.8	5111.0
27.5°	5333.2	5343.3	5198.6	4966.2	4864.2	4884.6	4905.0	4890.8	4913.2	4974.3	5188.4
30°	5643.0	5649.2	5465.7	5157.8	5013.1	5023.3	5027.3	4968.3	4925.4	4974.3	5243.5
32.5°	6010.0	6007.9	5789.8	5390.3	5182.3	5172.2	5137.5	5021.3	4921.3	4964.2	5292.4
35°	6578.8	6556.4	6275.0	5716.4	5374.0	5310.7	5229.2	5080.4	4941.7	4953.9	5335.2
37.5°	7520.6	7451.3	7061.9	6250.6	5659.3	5498.3	5378.0	5176.1	4986.6	4949.9	5386.2
40°	8582.8	8495.2	8067.1	6982.5	6087.5	5828.6	5634.9	5312.8	5060.0	4968.3	5461.6
42.5°	9842.7	9718.3	9257.6	7844.8	6629.8	6254.7	5963.1	5486.1	5168.0	5027.3	5563.5
45°	11390.1	11225.0	10572.6	8817.3	7312.8	6813.3	6423.9	5749.0	5333.2	5141.5	5716.4
47.5°	12953.7	12994.5	12066.9	9930.4	8132.2	7502.3	7000.9	6144.6	5573.7	5325.0	5963.1
50°	14615.3	14643.8	13553.1	11163.8	9061.9	8281.1	7649.1	6587.0	5908.1	5585.9	6332.1
52.5°	15911.9	15915.9	14902.7	12454.3	10030.2	9137.4	8348.3	7092.6	6295.4	5932.5	6823.4
55°	16723.3	16713.0	15848.7	13675.4	11143.4	10036.4	9123.0	7667.4	6768.4	6340.2	7441.2
57.5°	17312.5	17281.8	16501.1	14725.4	12329.9	11098.5	9999.7	8319.8	7327.0	6825.5	8254.6
60°	17536.6	17518.3	16943.5	15632.6	13577.6	12272.8	11010.9	9049.6	7961.0	7398.3	9300.4
62.5°	17622.3	17657.0	17377.6	16511.2	14912.9	13573.5	12122.0	9922.2	8674.6	8046.7	10403.3
65°	17924.0	17987.2	17930.1	17661.1	16421.5	15096.4	13595.9	10959.9	9453.4	8741.8	11555.2
67.5°	18521.3	18584.6	18609.0	19037.1	18264.5	16994.4	15434.8	12252.4	10364.6	9463.5	12421.7
70°	18507.1	18488.7	18920.9	20131.9	20572.3	19622.2	17913.8	13842.6	11451.2	10062.9	12531.8
72.5°	16845.6	16698.8	17720.1	20119.6	22492.7	22366.3	20941.3	15893.4	12389.0	10136.3	10874.3
75°	12637.7	12246.3	14050.5	18131.9	22812.7	23923.8	22865.8	17165.7	12166.9	8955.9	7567.6
77.5°	5404.5	5011.0	7137.4	13422.6	20417.3	22364.3	21100.2	14976.1	9712.3	5922.3	3716.5
80°	1414.8	1412.8	2156.9	6085.4	13885.4	16515.3	14488.9	9671.5	5549.2	2116.1	1025.4
82.5°	585.1	570.8	793.0	2366.9	6784.7	9267.8	7563.5	4313.8	2004.0	572.9	340.5
85°	218.1	216.1	385.3	817.5	2393.4	3822.5	2766.5	1102.9	499.5	279.3	152.9
87.5°	61.2	59.1	83.5	283.4	583.0	884.8	472.9	181.4	140.6	110.1	44.9
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: P968777

CATALOG NUMBER: NAV-SB5C-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4
2.5°	4409.7	4419.8	4438.1	4452.5	4470.8	4491.2	4519.7	4538.1	4556.4	4568.6	4560.5
5°	4428.0	4450.4	4497.3	4544.2	4599.3	4650.2	4709.4	4752.1	4786.9	4797.0	4801.1
7.5°	4468.8	4505.5	4584.9	4664.5	4752.1	4835.7	4921.3	4994.7	5053.9	5076.3	5078.4
10°	4540.1	4589.0	4701.2	4813.3	4929.5	5058.0	5168.0	5274.0	5357.7	5392.3	5394.4
12.5°	4629.8	4691.0	4837.8	4992.7	5153.8	5331.1	5473.8	5604.3	5708.3	5755.2	5755.2
15°	4746.1	4825.5	5013.1	5221.0	5457.5	5704.2	5885.7	6030.4	6146.6	6203.7	6199.6
17.5°	4872.4	4978.4	5214.9	5528.8	5867.3	6191.4	6403.5	6509.5	6629.8	6684.8	6682.8
20°	4994.7	5125.2	5463.7	5920.3	6370.9	6715.4	6886.7	6915.2	6923.4	6929.4	6945.8
22.5°	5121.1	5296.5	5775.6	6413.6	6896.8	7135.3	7159.8	7037.5	6866.3	6786.7	6809.2
25°	5259.8	5492.2	6183.3	6958.0	7349.5	7377.9	7190.4	6892.7	6568.6	6419.8	6442.2
27.5°	5394.4	5718.5	6672.5	7477.9	7675.6	7424.9	7021.1	6599.2	6207.8	6050.8	6069.1
30°	5528.8	5977.4	7212.8	7932.5	7824.4	7308.7	6754.1	6283.1	5889.8	5724.6	5743.0
32.5°	5665.5	6279.2	7834.6	8260.7	7797.9	7061.9	6421.8	5928.5	5581.8	5408.6	5431.1
35°	5820.5	6650.2	8423.8	8440.2	7620.6	6699.1	5983.5	5504.5	5202.7	5064.1	5094.7
37.5°	6022.3	7121.1	8943.6	8484.9	7310.7	6167.0	5439.2	5002.9	4754.2	4691.0	4735.8
40°	6273.0	7687.8	9341.2	8413.6	6852.0	5520.8	4843.8	4495.2	4354.6	4368.9	4417.9
42.5°	6599.2	8321.9	9620.5	8230.1	6213.9	4854.1	4322.0	4167.0	4234.3	4291.4	4344.5
45°	7023.2	8980.3	9793.8	7918.2	5492.2	4289.3	4014.1	4050.8	4101.8	4107.9	4148.7
47.5°	7565.5	9647.0	9908.0	7447.2	4756.2	3891.8	3818.4	3826.6	3816.4	3773.5	3806.2
50°	8242.3	10295.3	10009.8	6823.4	4130.3	3643.2	3545.3	3516.7	3376.0	3237.5	3255.8
52.5°	9012.9	10890.6	10052.7	6048.7	3643.2	3435.2	3276.1	3096.7	2833.7	2791.0	2805.2
55°	9869.2	11441.0	9942.6	5096.7	3233.4	3168.1	2927.5	2711.4	2682.9	2646.2	2652.3
57.5°	10892.7	12034.3	9718.3	4034.5	2813.4	2856.2	2621.7	2646.2	2595.2	2538.1	2528.0
60°	12011.9	12647.9	9324.9	3066.2	2379.1	2466.8	2542.2	2540.2	2525.9	2479.1	2462.8
62.5°	13018.9	13051.6	8550.2	2348.6	1997.9	2165.1	2370.9	2369.0	2356.7	2330.2	2320.0
65°	13618.4	12990.4	7257.7	1849.1	1684.0	1916.3	2138.6	2154.9	2156.9	2154.9	2154.9
67.5°	13512.4	12274.9	5484.1	1471.9	1425.1	1663.6	1908.2	1930.6	1946.9	1951.0	1955.1
70°	12313.6	10703.0	3575.8	1174.2	1194.6	1441.4	1690.0	1712.5	1726.7	1743.1	1751.2
72.5°	9598.1	7869.2	2046.8	950.1	992.8	1249.7	1473.9	1500.5	1508.6	1539.2	1551.4
75°	5849.0	4627.8	1104.9	748.1	815.5	1068.3	1259.9	1290.5	1304.7	1341.4	1345.5
77.5°	2780.7	2004.0	630.0	583.0	656.4	872.6	1064.2	1098.8	1060.2	1080.5	1064.2
80°	939.8	744.2	397.5	444.4	501.5	680.9	852.2	886.8	805.2	801.2	793.0
82.5°	328.2	301.8	252.8	295.6	324.1	487.3	644.2	689.1	599.4	597.4	568.8
85°	128.4	122.3	140.6	161.0	193.7	299.7	424.0	446.5	369.0	297.7	293.6
87.5°	26.5	28.5	34.6	36.7	59.1	103.9	152.9	187.6	148.8	126.4	116.2
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)