

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: P971423

Luminaire Tested: **NAV-SB6D-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971423
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-SB6D-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62671.6 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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



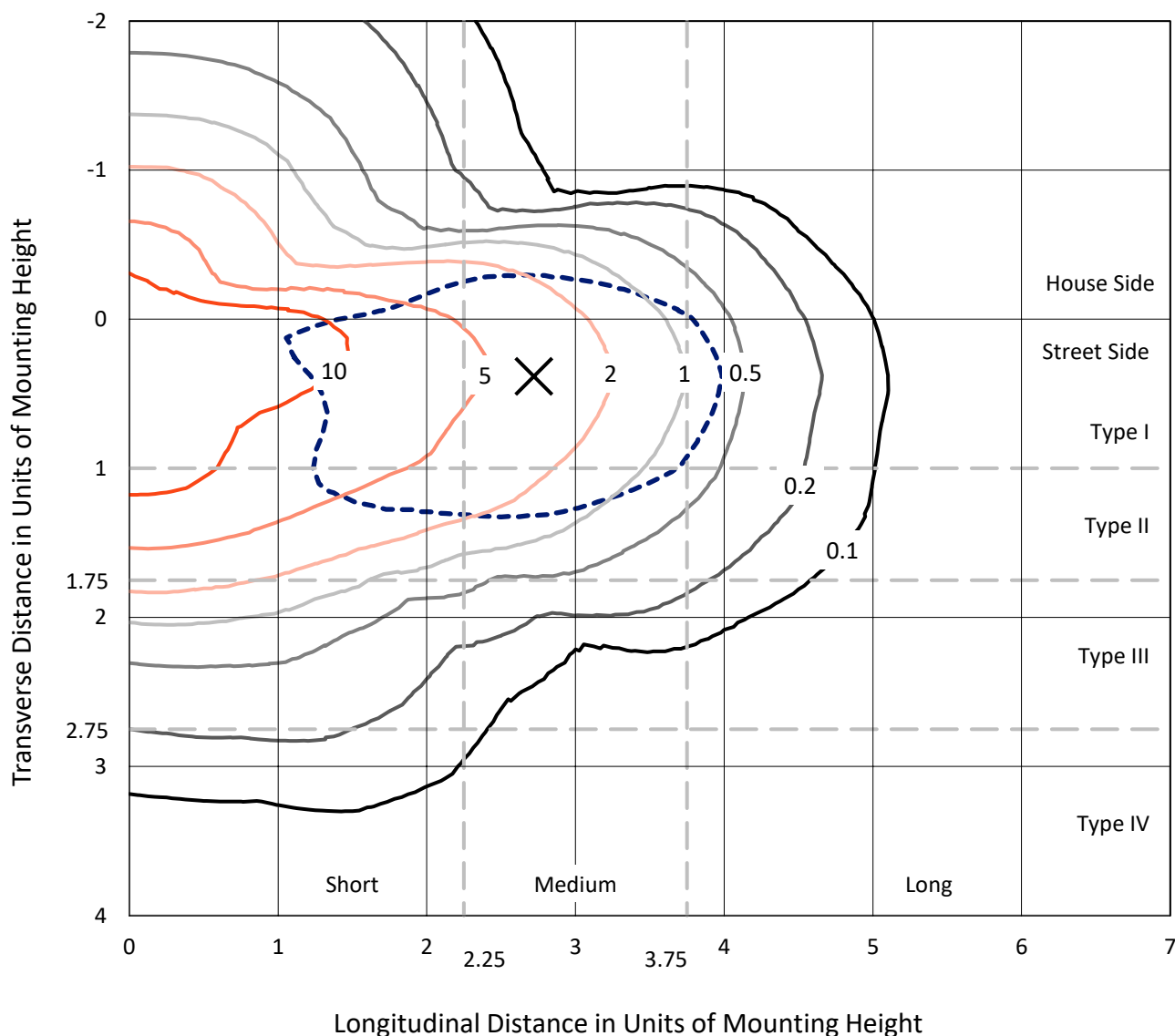
REPORT NUMBER: P971423

CATALOG NUMBER: NAV-SB6D-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

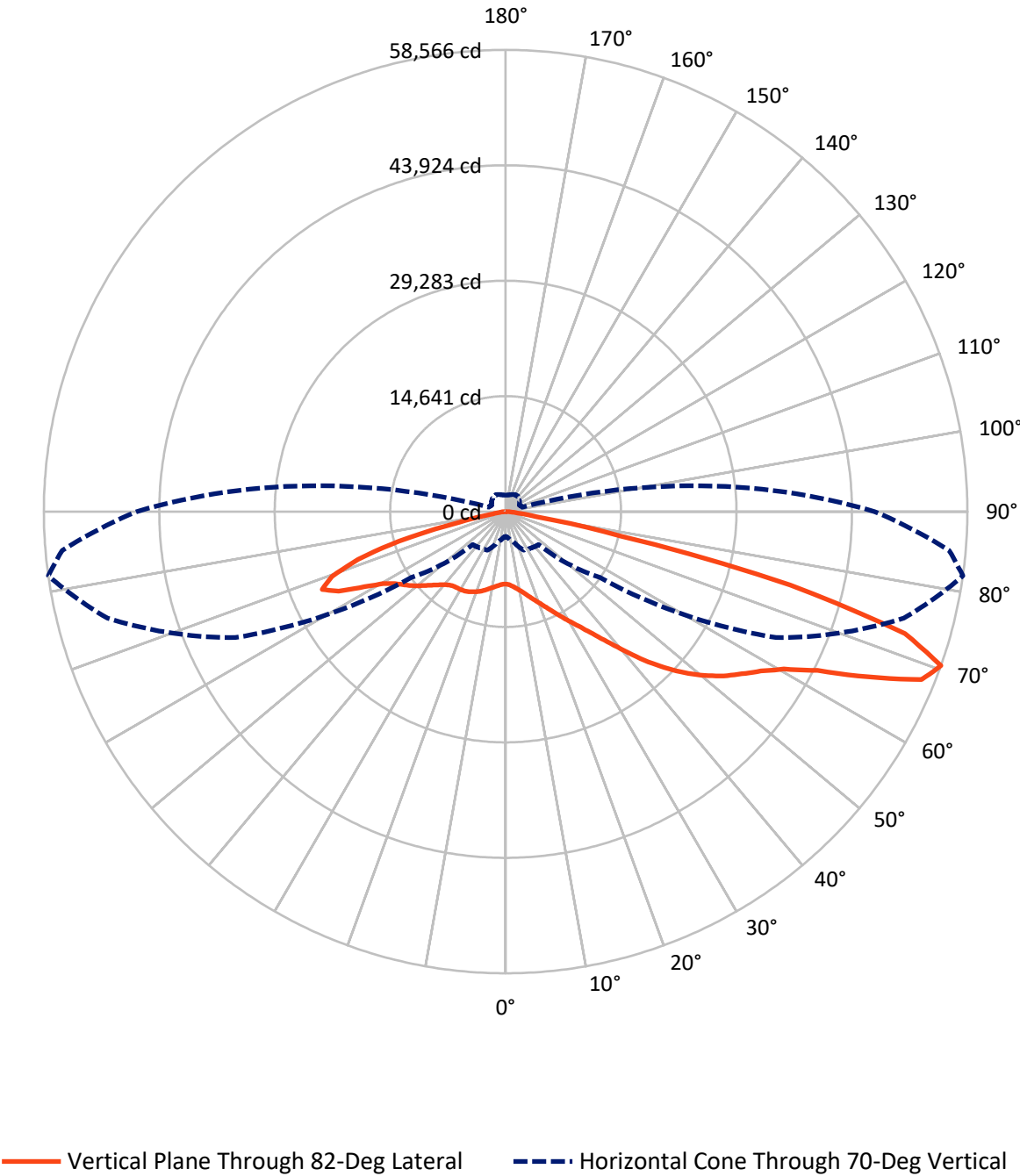
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
Type II - Medium - N/A

REPORT NUMBER: P971423
CATALOG NUMBER: NAV-SB6D-735-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P971423

CATALOG NUMBER: NAV-SB6D-735-U-T2

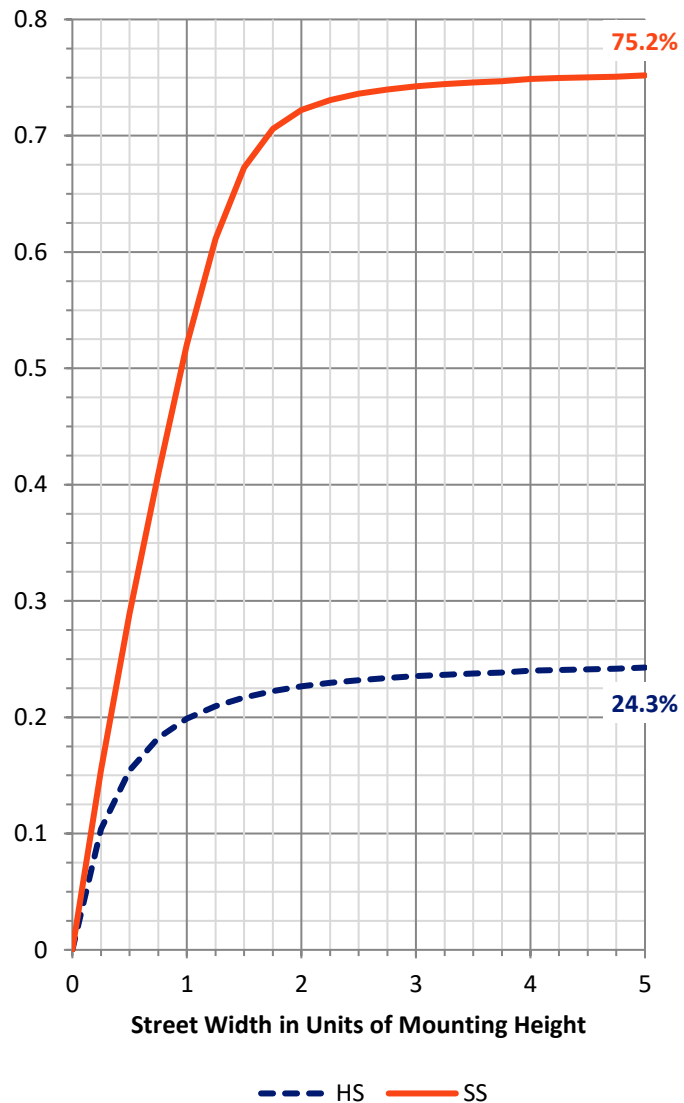
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15450.1	0.0	15450.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	47221.5	0.0	47221.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	62671.6	0.0	62671.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.6	1.4
10°-20°	2492.5	4.0
20°-30°	4169.7	6.7
30°-40°	6514.2	10.4
40°-50°	10374.6	16.6
50°-60°	14437.6	23.0
60°-70°	15102.4	24.1
70°-80°	7893.3	12.6
80°-90°	819.6	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°	62671.6	100.0
0°-180°	62671.6	100.0

Coefficient of Utilization



REPORT NUMBER: P971423

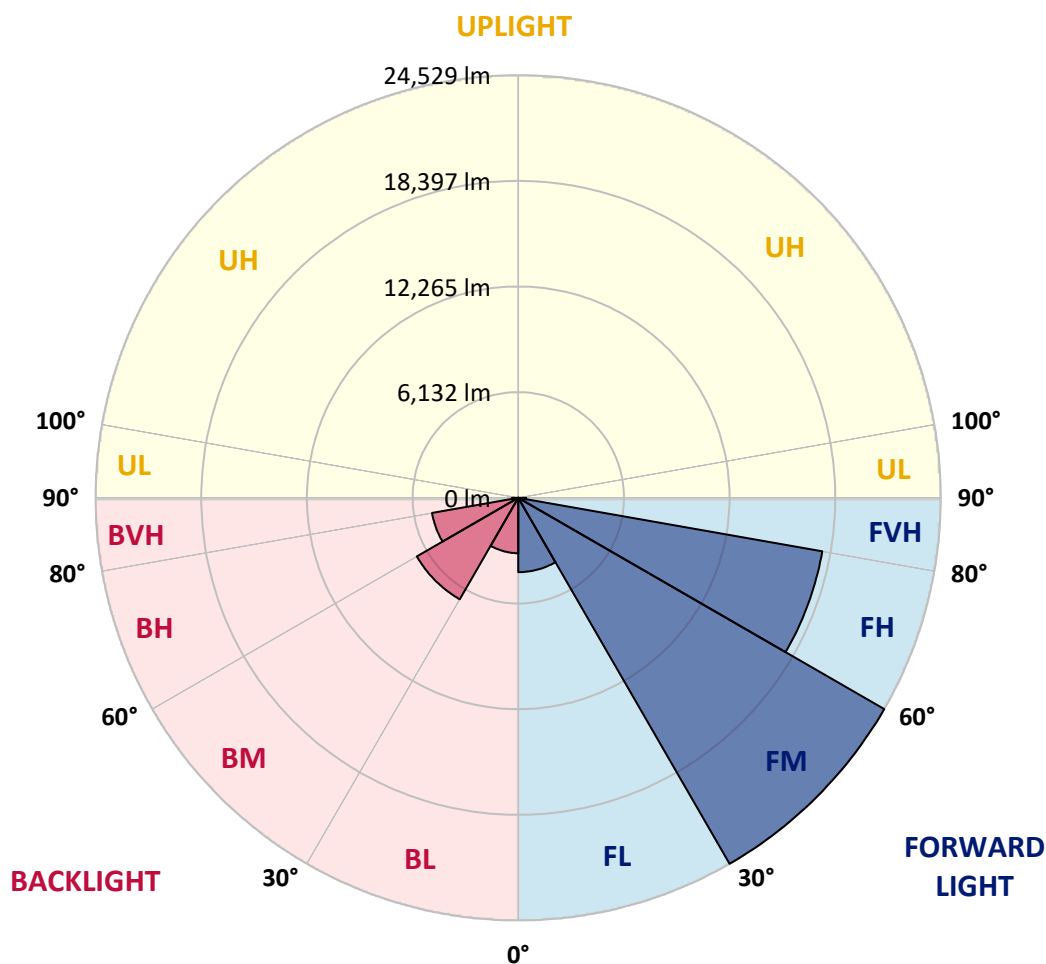
CATALOG NUMBER: NAV-SB6D-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4315.6	6.9			
FM	(30°-60°)	24529.0	39.1			
FH	(60°-80°)	17918.0	28.6			G5
FVH	(80°-90°)	458.8	0.7			G3/500
BL	(0°-30°)	3214.2	5.1	B4/5000		
BM	(30°-60°)	6797.4	10.8	B4/8500		
BH	(60°-80°)	5077.7	8.1	B5		G5
BVH	(80°-90°)	360.8	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



REPORT NUMBER: P971423

CATALOG NUMBER: NAV-SB6D-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4
2.5°	9408.0	9461.2	9444.5	9427.8	9427.8	9404.6	9401.3	9368.0	9341.4	9298.2	9288.2
5°	9527.7	9584.2	9577.5	9590.8	9634.1	9644.0	9654.0	9634.1	9580.9	9527.7	9504.3
7.5°	9421.2	9484.4	9504.3	9584.2	9717.2	9836.9	9926.7	9963.3	9913.4	9836.9	9800.3
10°	9062.0	9131.9	9201.7	9391.3	9627.4	9910.1	10149.6	10292.5	10282.5	10209.4	10146.2
12.5°	8333.8	8406.9	8556.6	8925.7	9358.0	9856.9	10302.5	10601.8	10704.9	10651.7	10541.9
15°	7751.8	7815.0	7928.1	8307.2	8869.2	9627.4	10359.1	10941.0	11203.7	11173.7	11040.8
17.5°	7735.2	7761.8	7831.6	8011.2	8443.5	9268.3	10299.2	11273.6	11775.7	11772.3	11606.1
20°	8027.8	8037.8	8077.7	8114.3	8360.4	8995.6	10146.2	11549.6	12417.6	12417.6	12238.0
22.5°	8433.5	8426.9	8466.8	8433.5	8553.2	8972.2	10049.7	11792.3	13132.5	13185.7	12959.6
25°	9042.1	9008.8	8998.9	8922.4	8945.7	9188.4	10156.2	12068.3	13980.5	14090.3	13807.6
27.5°	9853.5	9800.3	9763.7	9587.5	9527.7	9634.1	10482.1	12400.9	14925.0	15114.5	14755.4
30°	10911.0	10814.6	10761.4	10455.5	10239.3	10255.9	10974.3	12843.1	15912.6	16218.6	15763.0
32.5°	12354.3	12204.7	12061.7	11559.5	11163.8	11034.1	11609.5	13455.1	16983.4	17472.4	16887.1
35°	13970.5	13850.8	13697.9	12923.0	12314.5	12015.2	12467.4	14309.7	18237.2	19012.0	18250.5
37.5°	15526.9	15423.8	15497.0	14452.7	13668.0	13232.2	13591.4	15457.1	19783.5	20927.5	19959.8
40°	17136.5	17056.6	17066.7	16068.9	15154.4	14665.6	14955.0	16897.0	21556.1	23205.6	22015.1
42.5°	18885.7	18825.9	18626.3	17741.7	16714.1	16258.6	16524.5	18559.8	23458.3	25799.5	24269.7
45°	20844.4	20807.8	20621.6	19607.3	18430.1	17917.9	18277.1	20395.4	25370.5	28240.4	26534.4
47.5°	22537.1	22567.0	22543.7	21689.1	20468.6	19717.1	20146.1	22311.0	27149.6	30535.1	28705.9
50°	23351.9	23508.2	23737.7	23471.6	22713.4	21948.5	22031.7	24160.0	28845.7	32686.6	30787.7
52.5°	22926.2	23222.2	23847.3	24273.0	24565.7	24406.1	24183.2	25995.6	30441.9	34628.7	32756.4
55°	21339.9	21755.6	22793.1	23820.8	25313.9	26474.5	26767.2	28030.9	31998.2	36338.1	34618.8
57.5°	18450.0	19125.2	20056.3	22134.7	24648.8	27475.5	29780.1	30854.2	33647.7	38163.7	36567.5
60°	13495.0	14399.5	15556.8	18649.6	22320.9	26940.1	32344.1	35190.7	35992.2	40528.2	39104.9
62.5°	8636.4	9195.1	10259.2	13172.4	17392.5	24196.6	33128.9	40611.3	39966.2	44405.8	42909.3
65°	5912.8	6272.0	7246.3	8882.4	11243.6	18011.1	31027.2	44675.1	46278.0	50551.4	49414.0
67.5°	4296.6	4569.2	5400.6	6834.0	7326.2	10658.4	24076.8	44488.9	52413.7	56883.2	55113.9
70°	3132.6	3325.5	4023.8	5400.6	5636.8	5929.4	14585.7	37817.9	52280.6	58565.9	56447.6
72.5°	2321.2	2454.3	2923.1	4190.2	4562.6	4004.0	7219.7	27485.5	44924.5	52972.3	51273.0
75°	1679.4	1779.2	2125.0	3205.8	3651.5	3049.5	3601.5	16062.3	31336.5	37262.5	37561.8
77.5°	1283.6	1360.2	1586.3	2347.9	2923.1	2288.0	2234.7	7389.3	14858.5	14931.6	15769.6
80°	1030.9	1080.8	1203.9	1652.8	2241.4	1712.7	1456.6	2983.0	4695.6	3974.0	4170.2
82.5°	758.2	841.3	1017.6	1160.6	1602.9	1180.6	888.0	1506.4	1785.9	1536.4	1549.7
85°	432.3	488.8	615.2	831.4	1024.3	721.6	508.8	668.4	831.4	681.7	608.5
87.5°	152.9	199.6	216.2	326.0	445.7	299.3	196.2	192.9	272.6	202.8	169.6
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: P971423

CATALOG NUMBER: NAV-SB6D-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4	9188.4
2.5°	9254.9	9238.3	9171.8	9082.0	8988.9	8899.2	8869.2	8806.0	8762.7	8739.5	8766.1
5°	9441.2	9388.0	9231.7	9032.1	8822.6	8596.5	8436.9	8290.5	8184.1	8084.4	8124.3
7.5°	9707.3	9614.1	9344.7	8995.6	8623.1	8247.4	7967.9	7755.2	7612.2	7519.0	7539.0
10°	10016.5	9873.5	9461.2	8939.0	8363.7	7825.0	7495.7	7312.9	7223.1	7173.2	7186.5
12.5°	10372.3	10169.4	9580.9	8809.4	7967.9	7352.7	7126.6	7073.4	7076.7	7080.1	7086.7
15°	10811.3	10528.6	9677.3	8526.7	7452.5	6990.3	6950.3	7036.8	7126.6	7169.9	7166.5
17.5°	11306.8	10907.7	9693.9	8061.1	6947.0	6757.5	6883.8	7070.0	7206.5	7266.3	7279.6
20°	11838.9	11293.4	9574.2	7402.7	6531.3	6567.9	6794.0	7033.4	7183.1	7259.7	7279.6
22.5°	12447.5	11705.9	9288.2	6710.9	6192.1	6361.8	6627.8	6860.5	7016.8	7093.3	7113.3
25°	13142.4	12168.1	8839.3	6129.0	5899.5	6129.0	6395.0	6587.9	6714.3	6784.1	6804.1
27.5°	13914.0	12650.3	8240.7	5666.7	5643.4	5889.5	6109.0	6258.6	6325.2	6378.4	6398.4
30°	14688.9	13089.2	7515.7	5317.5	5420.6	5653.4	5809.7	5876.2	5896.2	5906.2	5929.4
32.5°	15526.9	13468.4	6754.1	5028.2	5207.8	5423.9	5517.1	5547.0	5453.8	5390.7	5410.7
35°	16541.1	13874.1	6009.3	4798.7	4998.3	5184.4	5214.4	5187.8	5078.1	4948.4	4955.1
37.5°	17794.9	14379.6	5413.9	4635.8	4802.0	4925.1	4888.5	4881.9	4891.8	4738.9	4748.8
40°	19331.3	15038.1	4978.3	4509.4	4642.4	4669.1	4566.0	4622.4	4672.4	4439.6	4446.2
42.5°	21037.3	15832.9	4702.3	4423.0	4509.4	4446.2	4286.7	4349.8	4343.1	4037.2	4033.9
45°	22776.5	16697.5	4605.8	4359.7	4386.4	4260.0	4083.7	4100.4	3960.7	3684.7	3694.6
47.5°	24505.8	17625.3	4665.7	4306.5	4233.4	4090.4	3954.0	3880.9	3674.7	3468.5	3468.5
50°	26201.9	18599.6	4885.3	4200.1	4023.8	3940.7	3841.0	3711.3	3491.8	3315.6	3302.2
52.5°	27774.8	19580.7	5131.3	4023.8	3761.1	3811.1	3747.9	3598.3	3382.1	3202.5	3205.8
55°	29264.7	20561.7	5227.7	3781.1	3515.1	3698.0	3661.4	3385.4	3126.0	2979.7	2966.4
57.5°	30887.6	21742.3	5121.3	3471.9	3315.6	3568.3	3428.6	3122.7	2973.0	2863.2	2853.3
60°	33135.6	23594.6	4891.8	3089.5	3126.0	3375.4	3136.0	3009.6	2846.6	2723.6	2717.0
62.5°	36870.2	27049.9	4522.7	2710.3	2903.2	3089.5	2996.3	2869.9	2703.6	2583.9	2583.9
65°	42390.5	31851.9	3827.7	2414.3	2653.7	2810.0	2846.6	2720.2	2547.3	2420.9	2427.6
67.5°	47046.3	34864.9	2896.5	2168.3	2397.7	2583.9	2687.0	2563.9	2381.1	2258.1	2261.4
70°	46790.2	32676.7	2211.4	1925.5	2171.6	2361.1	2494.1	2397.7	2201.5	2085.2	2095.1
72.5°	41559.1	27335.8	1789.1	1679.4	1942.1	2128.3	2288.0	2214.8	2015.3	1902.2	1902.2
75°	30531.7	19404.5	1430.0	1430.0	1656.1	1885.6	2061.8	2015.3	1832.4	1752.5	1729.3
77.5°	12869.8	8140.9	1120.7	1187.3	1376.8	1619.5	1839.1	1855.7	1696.1	1795.8	1629.5
80°	3422.0	2244.8	854.6	934.5	1080.8	1336.9	1599.6	1593.0	1420.0	1326.9	1233.8
82.5°	1303.6	884.6	608.5	658.5	781.5	1024.3	1267.0	1307.0	1134.0	981.0	981.0
85°	502.1	379.1	375.8	395.8	455.6	678.4	957.8	991.0	854.6	725.0	748.2
87.5°	129.7	113.1	139.7	133.0	209.5	362.4	548.7	568.7	522.1	302.6	432.3
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)