

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: P970878

Luminaire Tested: **NAV-SB6C-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47342.7 lumens
Efficiency: N/A
Efficacy: 157.3 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): 300.9
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



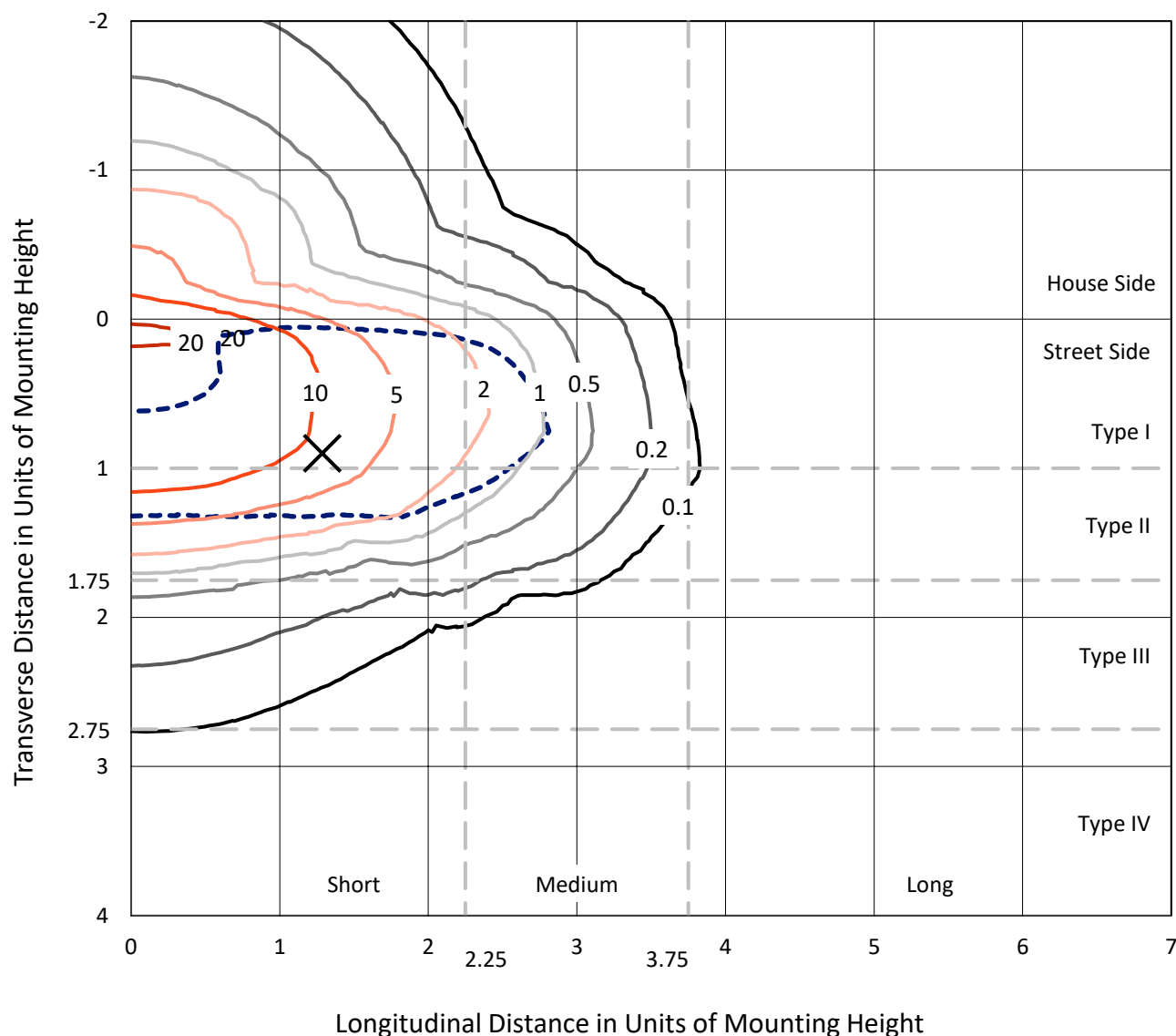
REPORT NUMBER: P970878

CATALOG NUMBER: NAV-SB6C-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



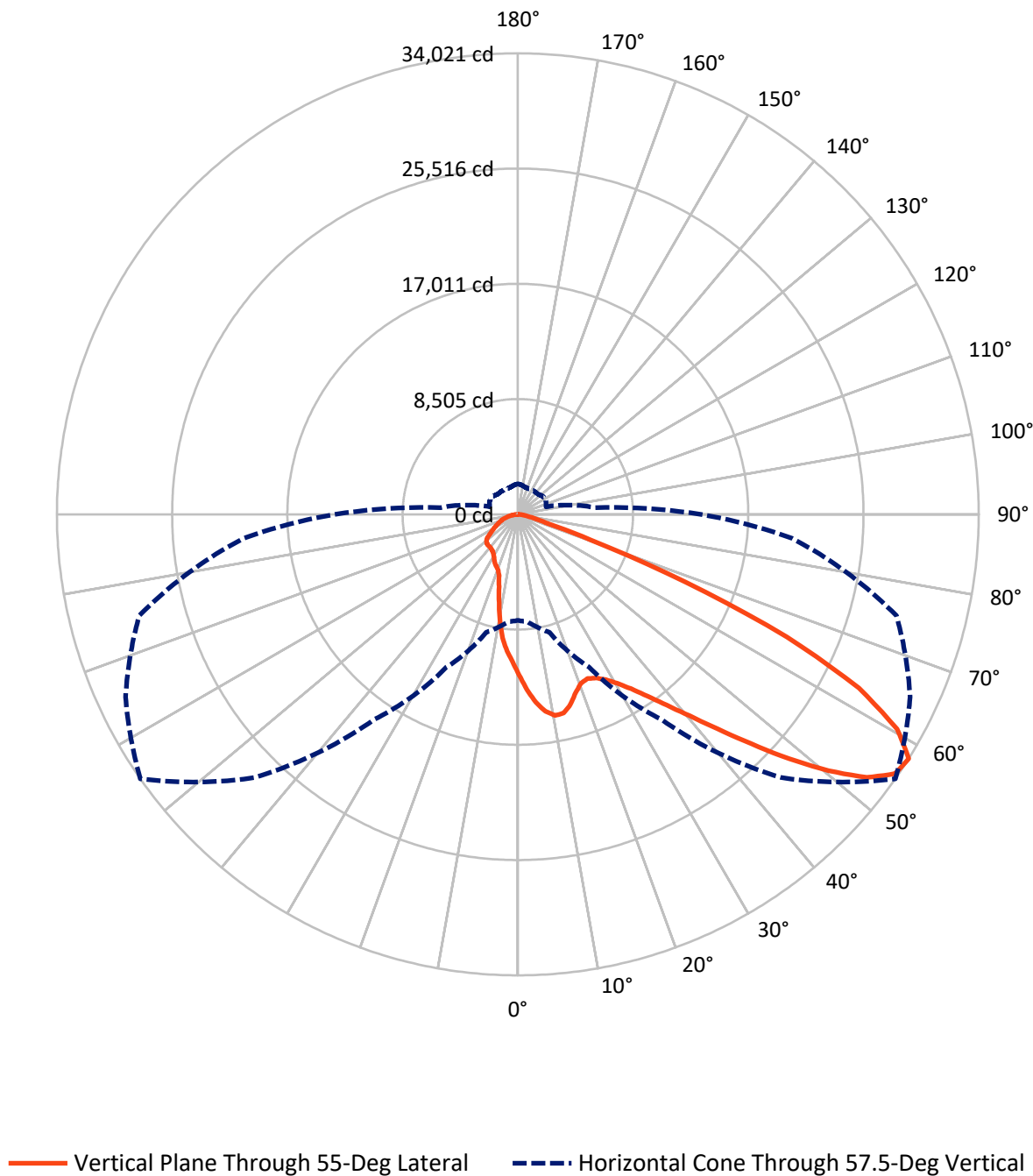
Based on 25 foot mounting height. Maximum calculated value = 22.9 fc

Type II - Short - N/A

REPORT NUMBER: P970878

CATALOG NUMBER: NAV-SB6C-735-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P970878

CATALOG NUMBER: NAV-SB6C-735-U-AFL

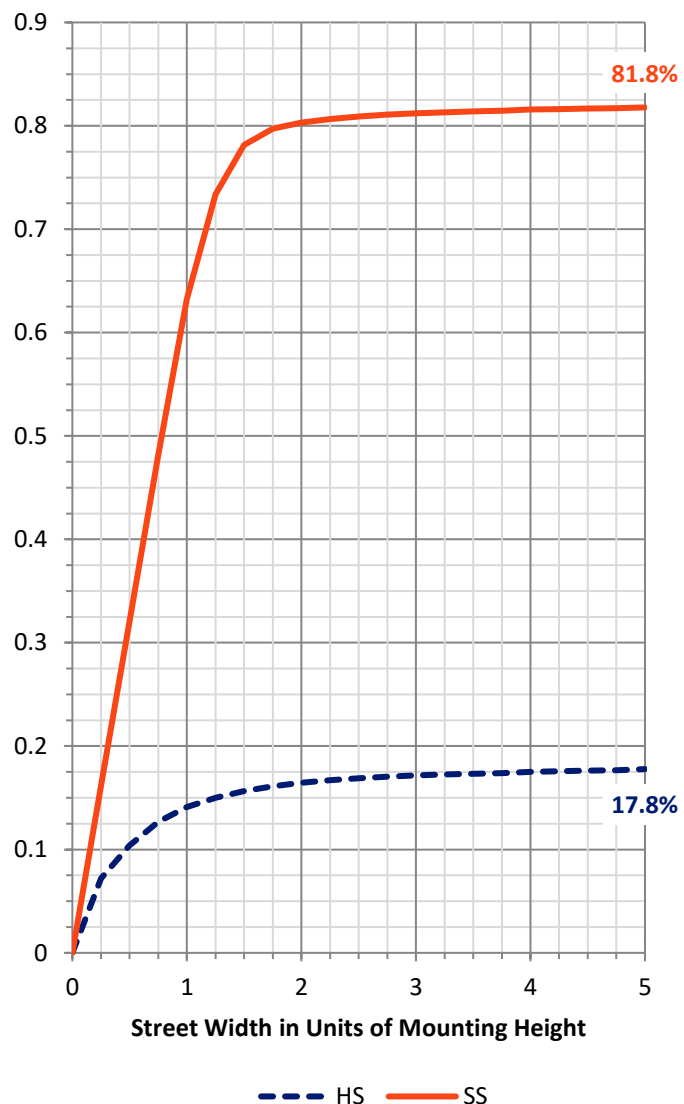
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8566.4	0.0	8566.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	38776.3	0.0	38776.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	47342.7	0.0	47342.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1100.8	2.3
10°-20°	2778.4	5.9
20°-30°	4433.5	9.4
30°-40°	7019.4	14.8
40°-50°	10743.9	22.7
50°-60°	11507.7	24.3
60°-70°	7239.6	15.3
70°-80°	2140.9	4.5
80°-90°	378.5	0.8
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°	47342.7	100.0
0°-180°	47342.7	100.0

Coefficient of Utilization



REPORT NUMBER: P970878

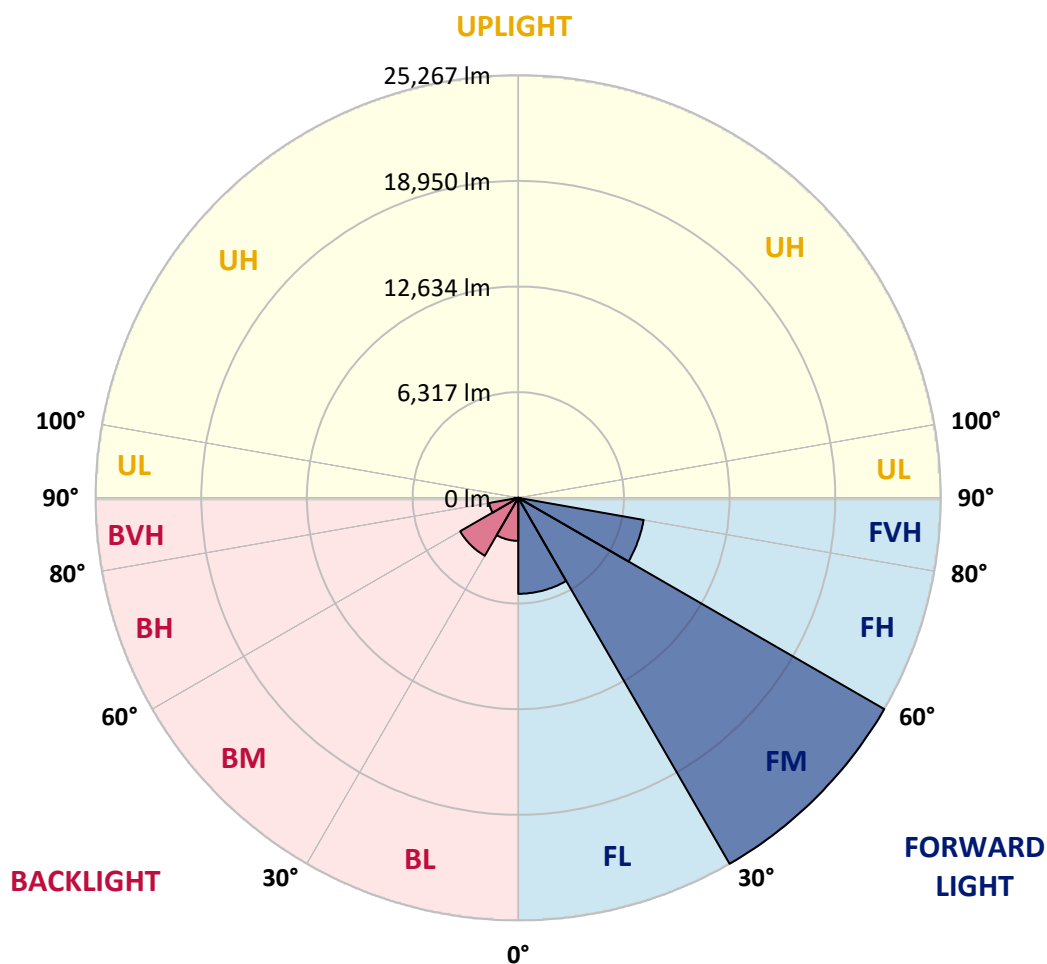
CATALOG NUMBER: NAV-SB6C-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5737.9	12.1			
FM	(30°-60°)	25267.1	53.4			
FH	(60°-80°)	7611.3	16.1			G4/12000
FVH	(80°-90°)	159.9	0.3			G2/225
BL	(0°-30°)	2574.8	5.4	B4/5000		
BM	(30°-60°)	4003.9	8.5	B3/5000		
BH	(60°-80°)	1769.2	3.7	B3/2500		G3/2500
BVH	(80°-90°)	218.6	0.5			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: P970878

CATALOG NUMBER: NAV-SB6C-735-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5
2.5°	13610.0	13600.2	13654.0	13470.4	13345.7	13176.8	12954.1	12670.2	12364.3	12041.2	11901.7
5°	14836.2	14750.5	14806.7	14669.7	14532.7	14278.1	13947.7	13485.2	12919.8	12276.1	11933.6
7.5°	14642.7	14584.0	14728.4	14850.8	14953.6	14921.7	14679.5	14194.9	13465.6	12530.7	12033.9
10°	13083.8	13017.7	13220.9	13644.3	14265.8	14806.7	15100.4	14799.5	14023.6	12809.7	12131.8
12.5°	11708.4	11676.5	11811.2	12153.8	12844.0	13881.7	15046.6	15328.1	14603.6	13140.1	12263.9
15°	11120.9	11081.8	11167.5	11341.2	11781.8	12748.5	14557.2	15690.3	15173.9	13521.9	12474.4
17.5°	10991.3	10947.2	10983.9	11074.5	11358.3	12095.0	13818.0	15868.9	15768.6	13947.7	12650.7
20°	11231.1	11194.4	11199.3	11194.4	11392.7	11977.5	13304.1	15800.4	16287.5	14339.3	12821.9
22.5°	11811.2	11750.0	11752.4	11622.7	11730.4	12183.2	13169.4	15616.9	16750.0	14682.0	12951.6
25°	12755.8	12645.7	12667.8	12337.3	12308.0	12643.3	13379.9	15474.9	17210.2	14956.1	12976.1
27.5°	14048.0	13923.3	13857.2	13365.3	13130.2	13296.7	13808.2	15523.8	17645.8	15193.5	12914.9
30°	15663.3	15511.6	15377.0	14679.5	14253.6	14192.5	14473.9	15846.9	18159.7	15443.1	12809.7
32.5°	17643.3	17467.1	17222.4	16297.2	15697.6	15377.0	15335.4	16422.0	18761.8	15761.2	12755.8
35°	20000.1	19770.1	19422.5	18225.8	17467.1	16811.2	16471.0	17251.7	19586.5	16240.9	12817.0
37.5°	22427.9	22168.5	21850.3	20426.0	19493.6	18526.8	17856.2	18377.5	20685.4	16892.0	12978.6
40°	24667.3	24376.1	24079.9	22812.2	21811.2	20646.3	19552.3	19801.9	22029.0	17670.2	13252.6
42.5°	25989.0	25773.5	25661.0	24975.7	24202.3	23020.3	21661.9	21490.7	23539.1	18565.9	13566.0
45°	25930.2	25842.1	26189.6	26473.5	26289.9	25634.0	24133.8	23358.0	25054.1	19341.8	13854.7
47.5°	24545.0	24603.7	25379.5	26975.2	27677.7	28020.3	26948.3	25191.1	26370.7	19921.8	13984.5
50°	20775.9	20824.9	22621.3	26062.4	28035.0	29966.0	29740.8	26980.2	27391.3	20276.7	13955.1
52.5°	17792.6	17824.4	18595.3	23355.5	26855.3	30945.0	32256.7	28666.4	28137.8	20374.6	13791.1
55°	13402.0	13512.1	14376.0	18323.7	23786.3	30169.1	33788.8	30404.1	28610.1	20384.4	13619.8
57.5°	7829.3	7949.2	9016.2	12437.7	18487.6	27464.7	34021.3	31945.9	28930.7	20306.1	13517.0
60°	3835.0	3886.5	4351.4	6537.0	11399.9	22254.2	32151.5	32692.4	29109.4	20264.5	13512.1
62.5°	2584.4	2577.2	2596.7	3225.7	5616.8	14297.7	28255.3	31385.4	29014.0	20105.4	13463.2
65°	2222.2	2195.3	2121.9	2263.8	2910.0	6539.5	21830.8	27484.2	28287.0	19706.4	13127.9
67.5°	1921.2	1923.6	1926.1	1882.0	2077.9	3017.6	13340.8	21649.7	25678.1	17817.1	11835.6
70°	1590.8	1612.8	1622.6	1622.6	1693.6	1980.0	5695.1	14838.6	20254.7	13969.7	9532.6
72.5°	1448.8	1402.4	1407.2	1382.8	1382.8	1507.6	2293.2	8411.7	12760.7	7858.6	5817.5
75°	1182.1	1211.4	1216.4	1199.2	1143.0	1150.3	1360.8	3529.2	5460.2	3259.9	2875.7
77.5°	1020.6	1020.6	1030.3	1018.1	974.1	861.5	907.9	1368.1	1857.6	1336.3	1436.6
80°	819.9	817.4	859.1	883.6	815.0	636.3	580.0	756.2	824.8	587.3	746.5
82.5°	398.9	423.4	589.8	673.0	619.2	460.1	354.9	469.9	440.5	259.4	335.3
85°	232.5	220.3	264.3	374.4	354.9	254.5	171.3	244.8	230.0	132.1	134.6
87.5°	73.4	68.6	53.8	127.3	102.8	70.9	46.5	70.9	63.7	29.4	29.4
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: P970878

CATALOG NUMBER: NAV-SB6C-735-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5	11862.5
2.5°	11727.9	11439.1	11152.8	10890.9	10731.9	10629.0	10526.2	10411.2	10367.2	10301.1
5°	11610.5	11052.5	10555.7	10127.3	9738.2	9432.3	9123.9	8874.2	8761.7	8837.6
7.5°	11541.9	10734.3	9968.2	9182.7	8426.4	7821.9	7295.7	6926.1	6759.7	6801.3
10°	11480.7	10374.5	9207.2	7966.3	6879.6	6130.7	5592.3	5310.8	5205.7	5227.6
12.5°	11424.4	9970.7	8289.4	6657.0	5501.8	5007.3	4853.2	4855.6	4875.2	4889.9
15°	11414.7	9483.7	7263.9	5511.5	4757.7	4726.0	4892.3	4997.6	5053.9	5071.0
17.5°	11399.9	8901.2	6218.9	4730.8	4576.6	4792.0	4946.2	5014.7	5058.8	5061.2
20°	11341.2	8162.1	5254.6	4358.8	4537.5	4723.5	4818.9	4872.7	4909.4	4921.7
22.5°	11160.1	7339.7	4503.2	4192.4	4380.8	4530.1	4642.7	4703.9	4726.0	4740.6
25°	10834.7	6419.6	3984.4	4033.3	4163.0	4351.4	4442.0	4454.2	4447.0	4469.0
27.5°	10408.8	5433.2	3661.3	3817.9	3984.4	4145.9	4194.8	4187.5	4172.8	4197.3
30°	9894.8	4547.3	3455.7	3575.6	3803.3	3950.1	3994.1	3977.0	3947.7	3974.5
32.5°	9351.5	3822.8	3286.9	3406.8	3653.9	3798.3	3842.4	3825.3	3803.3	3825.3
35°	8844.9	3316.2	3130.2	3294.2	3536.5	3678.4	3734.7	3737.2	3737.2	3764.1
37.5°	8379.9	3020.1	3000.5	3223.2	3455.7	3583.0	3663.8	3668.7	3563.4	3570.8
40°	7949.2	2895.3	2941.7	3176.7	3377.4	3499.8	3504.7	3230.6	3037.2	3032.4
42.5°	7596.7	2870.8	2958.9	3171.9	3321.1	3326.0	2980.9	2768.0	2714.2	2716.7
45°	7266.3	2863.4	2998.0	3171.9	3237.9	2873.3	2640.7	2584.4	2589.4	2608.9
47.5°	6896.8	2834.1	3005.4	3127.8	2998.0	2555.1	2486.5	2462.0	2452.3	2457.2
50°	6493.0	2728.9	2912.4	3039.6	2586.9	2418.1	2332.4	2325.0	2337.3	2344.6
52.5°	6067.1	2557.6	2753.4	2880.6	2398.5	2298.2	2202.6	2219.7	2273.7	2290.8
55°	5788.1	2356.9	2542.8	2562.4	2266.3	2185.5	2104.7	2143.9	2244.2	2276.1
57.5°	5714.7	2143.9	2303.0	2280.9	2097.5	2087.6	2038.7	2073.0	2200.2	2246.7
60°	5692.6	1953.0	2068.0	2050.9	1933.5	1980.0	1967.7	1984.8	2028.9	2043.5
62.5°	5521.4	1801.3	1857.6	1833.1	1786.6	1867.3	1896.8	1860.1	1894.3	1911.4
65°	5085.7	1679.0	1652.0	1634.9	1654.5	1727.8	1786.6	1713.2	1745.0	1794.0
67.5°	4366.2	1512.5	1439.1	1458.7	1519.9	1559.0	1634.9	1551.6	1578.6	1661.8
70°	3531.6	1302.1	1235.9	1292.2	1350.9	1431.7	1443.9	1387.6	1451.3	1544.3
72.5°	2498.7	1089.1	1042.6	1157.6	1177.2	1282.5	1255.5	1228.6	1316.7	1348.5
75°	1732.8	878.6	851.7	939.8	1010.8	1101.4	1081.8	1113.6	1299.6	1314.3
77.5°	1096.4	682.9	665.7	722.0	819.9	920.2	952.0	1314.3	2219.7	2307.9
80°	636.3	509.0	489.4	533.5	619.2	712.2	917.8	1612.8	1463.5	1446.4
82.5°	354.9	349.9	325.5	337.7	413.6	513.9	1297.1	1135.6	922.7	952.0
85°	166.5	205.6	176.2	168.9	232.5	602.1	866.3	648.5	430.7	421.0
87.5°	44.1	39.2	39.2	44.1	97.9	518.9	345.1	276.5	164.0	159.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)