

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: P970351

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970351
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-SB6B-735-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35596.2 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

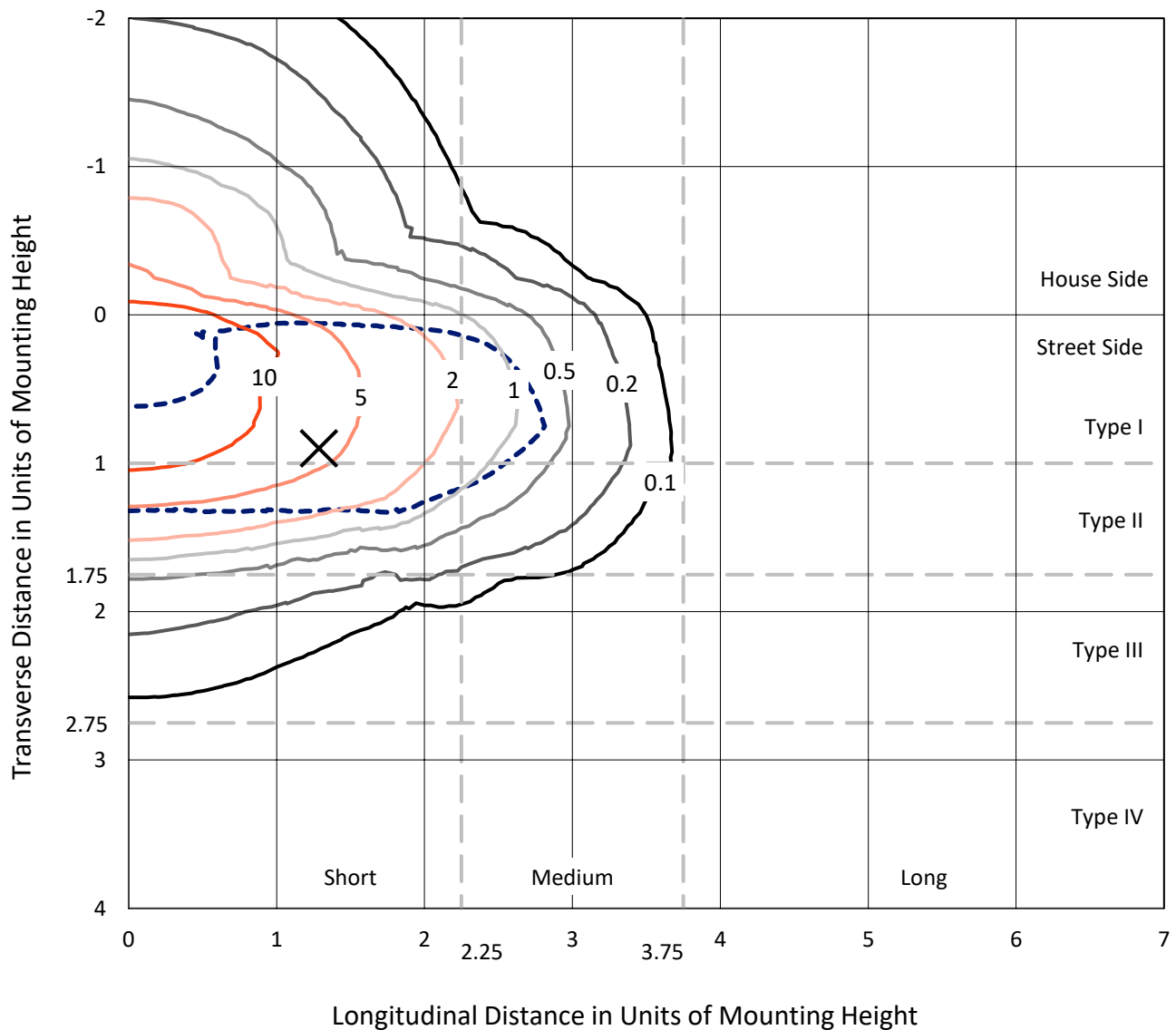
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970351
CATALOG NUMBER: NAV-SB6B-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

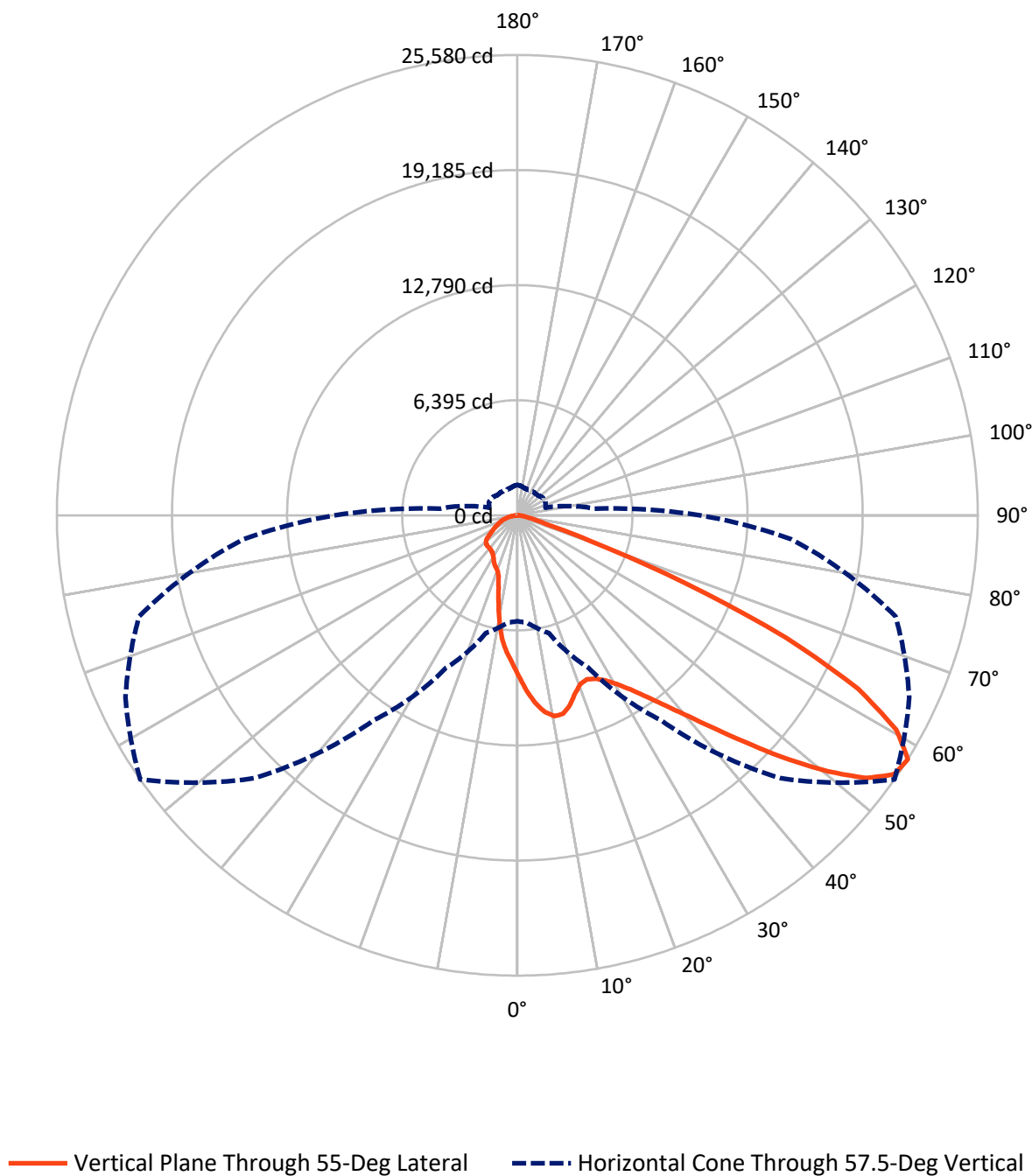
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
Type II - Short - N/A

REPORT NUMBER: P970351
CATALOG NUMBER: NAV-SB6B-735-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P970351

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

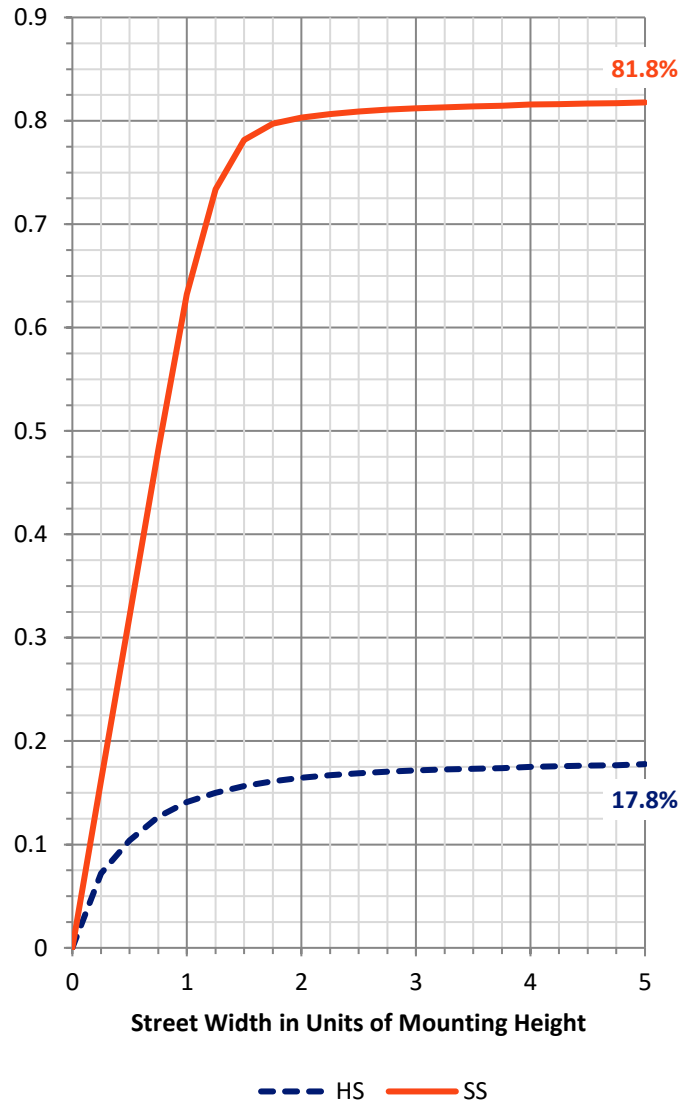
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6441.0	0.0	6441.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29155.3	0.0	29155.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	35596.2	0.0	35596.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.6	2.3
10°-20°	2089.0	5.9
20°-30°	3333.5	9.4
30°-40°	5277.8	14.8
40°-50°	8078.2	22.7
50°-60°	8652.5	24.3
60°-70°	5443.3	15.3
70°-80°	1609.7	4.5
80°-90°	284.6	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°	35596.2	100.0
0°-180°	35596.2	100.0

Coefficient of Utilization



REPORT NUMBER: P970351

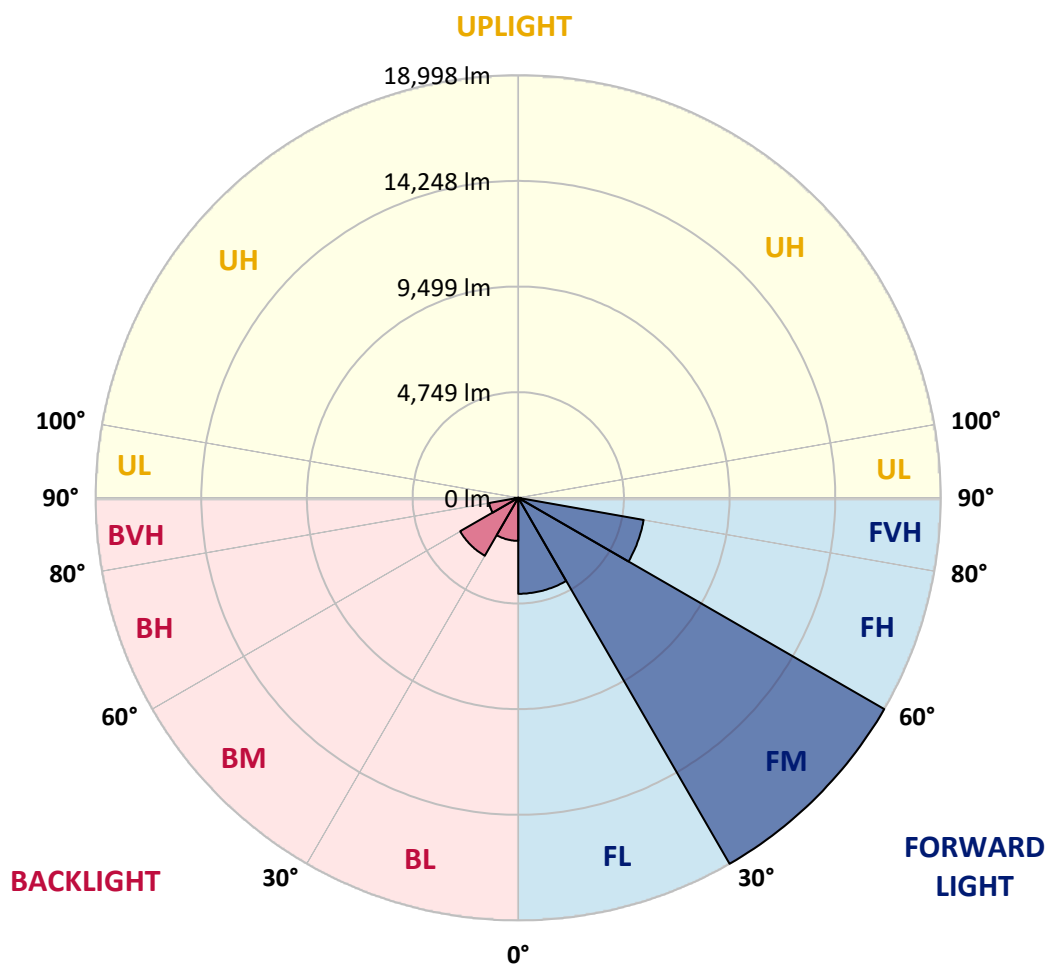
CATALOG NUMBER: NAV-SB6B-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4314.3	12.1			
FM	(30°-60°)	18997.9	53.4			
FH	(60°-80°)	5722.8	16.1			G3/7500
FVH	(80°-90°)	120.3	0.3			G2/225
BL	(0°-30°)	1935.9	5.4	B3/2500		
BM	(30°-60°)	3010.5	8.5	B3/5000		
BH	(60°-80°)	1330.2	3.7	B3/2500		G3/2500
BVH	(80°-90°)	164.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P970351

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2
2.5°	10233.1	10225.8	10266.3	10128.2	10034.3	9907.4	9740.0	9526.6	9296.4	9053.6	8948.7
5°	11155.1	11090.6	11132.9	11029.9	10926.9	10735.4	10487.1	10139.3	9714.2	9230.2	8972.6
7.5°	11009.6	10965.6	11074.1	11166.0	11243.3	11219.4	11037.3	10672.9	10124.5	9421.6	9048.1
10°	9837.5	9787.8	9940.6	10258.9	10726.3	11132.9	11353.8	11127.4	10544.1	9631.4	9121.7
12.5°	8803.3	8779.4	8880.6	9138.2	9657.1	10437.4	11313.3	11524.9	10980.2	9879.8	9221.0
15°	8361.6	8332.2	8396.7	8527.3	8858.6	9585.4	10945.3	11797.2	11409.0	10166.9	9379.3
17.5°	8264.2	8231.1	8258.6	8326.7	8540.2	9094.1	10389.5	11931.6	11856.2	10487.1	9511.8
20°	8444.5	8416.9	8420.6	8416.9	8565.9	9005.8	10003.1	11880.1	12246.3	10781.5	9640.6
22.5°	8880.6	8834.6	8836.4	8738.9	8819.9	9160.3	9901.9	11742.1	12594.1	11039.1	9738.1
25°	9590.9	9508.1	9524.7	9276.2	9254.2	9506.3	10060.2	11635.3	12940.0	11245.2	9756.6
27.5°	10562.5	10468.6	10419.0	10049.1	9872.5	9997.5	10382.2	11672.1	13267.6	11423.7	9710.5
30°	11777.0	11663.0	11561.7	11037.3	10717.1	10671.1	10882.7	11915.0	13654.0	11611.4	9631.4
32.5°	13265.8	13133.2	12949.2	12253.7	11802.8	11561.7	11530.4	12347.5	14106.7	11850.6	9590.9
35°	15037.8	14864.9	14603.5	13703.6	13133.2	12640.1	12384.3	12971.3	14726.8	12211.3	9636.9
37.5°	16863.2	16668.1	16428.9	15358.0	14656.9	13930.0	13425.8	13817.7	15553.0	12700.8	9758.4
40°	18547.0	18328.0	18105.3	17152.1	16399.5	15523.6	14701.1	14888.7	16563.3	13285.9	9964.4
42.5°	19540.7	19378.8	19294.1	18778.8	18197.3	17308.6	16287.2	16158.4	17698.7	13959.5	10200.0
45°	19496.5	19430.2	19691.6	19905.0	19767.0	19273.8	18145.8	17562.5	18837.8	14542.8	10417.2
47.5°	18454.9	18499.1	19082.4	20282.2	20810.4	21068.0	20262.0	18940.8	19827.7	14978.9	10514.7
50°	15621.1	15657.9	17008.5	19595.8	21079.0	22530.9	22361.6	20285.9	20595.0	15245.7	10492.6
52.5°	13378.0	13401.9	13981.5	17560.6	20192.1	23267.0	24253.3	21553.8	21156.3	15319.3	10369.3
55°	10076.7	10159.5	10809.1	13777.2	17884.5	22683.7	25405.2	22860.3	21511.5	15326.7	10240.5
57.5°	5886.7	5976.9	6779.1	9351.7	13900.5	20650.3	25580.1	24019.6	21752.6	15267.8	10163.2
60°	2883.5	2922.2	3271.8	4915.1	8571.5	16732.6	24174.2	24580.8	21886.8	15236.5	10159.5
62.5°	1943.2	1937.7	1952.4	2425.4	4223.2	10750.2	21244.7	23598.2	21815.1	15116.9	10122.7
65°	1670.9	1650.7	1595.4	1702.1	2188.0	4916.9	16414.2	20665.0	21268.5	14817.0	9870.6
67.5°	1444.5	1446.4	1448.2	1415.1	1562.3	2268.9	10030.8	16278.0	19307.0	13396.3	8899.0
70°	1196.1	1212.7	1220.1	1220.1	1273.4	1488.7	4282.0	11156.9	15229.1	10503.6	7167.4
72.5°	1089.4	1054.4	1058.1	1039.7	1039.7	1133.5	1724.3	6324.7	9594.6	5908.7	4374.1
75°	888.8	910.9	914.6	901.7	859.4	864.9	1023.2	2653.5	4105.4	2451.1	2162.2
77.5°	767.3	767.3	774.7	765.5	732.4	647.7	682.6	1028.7	1396.7	1004.7	1080.1
80°	616.4	614.6	645.9	664.3	612.7	478.5	436.1	568.6	620.1	441.7	561.3
82.5°	299.9	318.4	443.5	506.0	465.6	345.9	266.8	353.3	331.2	195.1	252.2
85°	174.9	165.6	198.7	281.6	266.8	191.4	128.8	184.0	173.0	99.3	101.2
87.5°	55.2	51.6	40.5	95.7	77.3	53.4	35.0	53.4	47.9	22.0	22.0
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: P970351

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2	8919.2
2.5°	8818.1	8600.9	8385.6	8188.7	8069.1	7991.8	7914.5	7828.0	7794.9	7745.2
5°	8729.7	8310.2	7936.6	7614.6	7322.0	7092.0	6860.1	6672.4	6587.8	6644.8
7.5°	8678.2	8071.0	7495.0	6904.3	6335.6	5881.1	5485.5	5207.6	5082.6	5113.8
10°	8632.1	7800.5	6922.6	5989.7	5172.7	4609.6	4204.8	3993.2	3914.1	3930.6
12.5°	8589.9	7496.8	6232.6	5005.3	4136.7	3764.9	3649.0	3650.8	3665.6	3676.7
15°	8582.5	7130.6	5461.6	4144.1	3577.2	3553.4	3678.5	3757.6	3799.9	3812.8
17.5°	8571.5	6692.6	4675.8	3557.1	3441.1	3603.1	3719.0	3770.5	3803.6	3805.4
20°	8527.3	6137.0	3950.9	3277.3	3411.6	3551.5	3623.3	3663.8	3691.3	3700.6
22.5°	8391.2	5518.6	3385.9	3152.2	3293.8	3406.2	3490.7	3536.8	3553.4	3564.4
25°	8146.4	4826.7	2995.8	3032.6	3130.1	3271.8	3339.9	3349.1	3343.6	3360.2
27.5°	7826.2	4085.1	2752.8	2870.6	2995.8	3117.2	3154.0	3148.5	3137.4	3155.9
30°	7439.8	3419.0	2598.3	2688.5	2859.6	2970.0	3003.1	2990.2	2968.2	2988.4
32.5°	7031.3	2874.3	2471.4	2561.5	2747.3	2856.0	2889.1	2876.1	2859.6	2876.1
35°	6650.3	2493.4	2353.6	2476.8	2659.1	2765.8	2808.1	2809.9	2809.9	2830.1
37.5°	6300.7	2270.8	2256.0	2423.5	2598.3	2694.0	2754.7	2758.4	2679.2	2684.8
40°	5976.9	2176.9	2211.8	2388.6	2539.4	2631.4	2635.1	2429.0	2283.6	2279.9
42.5°	5711.8	2158.5	2224.8	2384.9	2497.1	2500.8	2241.3	2081.3	2040.8	2042.6
45°	5463.5	2153.0	2254.2	2384.9	2434.6	2160.4	1985.5	1943.2	1946.9	1961.6
47.5°	5185.6	2130.9	2259.7	2351.8	2254.2	1921.2	1869.6	1851.2	1843.9	1847.6
50°	4882.0	2051.7	2189.8	2285.4	1945.0	1818.0	1753.7	1748.1	1757.4	1762.9
52.5°	4561.8	1923.0	2070.2	2165.8	1803.4	1727.9	1656.1	1669.0	1709.5	1722.4
55°	4351.9	1772.1	1911.9	1926.7	1704.0	1643.3	1582.5	1612.0	1687.5	1711.3
57.5°	4296.8	1612.0	1731.6	1715.0	1577.1	1569.7	1532.9	1558.6	1654.4	1689.3
60°	4280.2	1468.4	1554.9	1542.0	1453.8	1488.7	1479.5	1492.4	1525.5	1536.6
62.5°	4151.4	1354.3	1396.7	1378.3	1343.4	1404.0	1426.1	1398.5	1424.2	1437.2
65°	3823.9	1262.4	1242.1	1229.2	1243.9	1299.2	1343.4	1288.1	1312.0	1348.8
67.5°	3282.9	1137.2	1082.0	1096.8	1142.8	1172.2	1229.2	1166.7	1186.9	1249.5
70°	2655.4	979.0	929.3	971.6	1015.8	1076.5	1085.7	1043.3	1091.2	1161.1
72.5°	1878.8	818.9	783.9	870.4	885.1	964.2	944.0	923.7	990.0	1013.9
75°	1302.9	660.6	640.4	706.6	759.9	828.1	813.3	837.3	977.1	988.2
77.5°	824.4	513.4	500.5	542.8	616.4	691.9	715.9	988.2	1669.0	1735.2
80°	478.5	382.7	368.1	401.2	465.6	535.5	690.0	1212.7	1100.4	1087.5
82.5°	266.8	263.1	244.8	253.9	311.0	386.4	975.3	853.8	693.7	715.9
85°	125.2	154.6	132.5	127.0	174.9	452.6	651.4	487.6	323.9	316.5
87.5°	33.1	29.4	29.4	33.1	73.6	390.1	259.4	208.0	123.3	119.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)