

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: P964554

Luminaire Tested: **NAV-SB3C-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964554
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-SB3C-735-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 23424.4 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 149.1
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



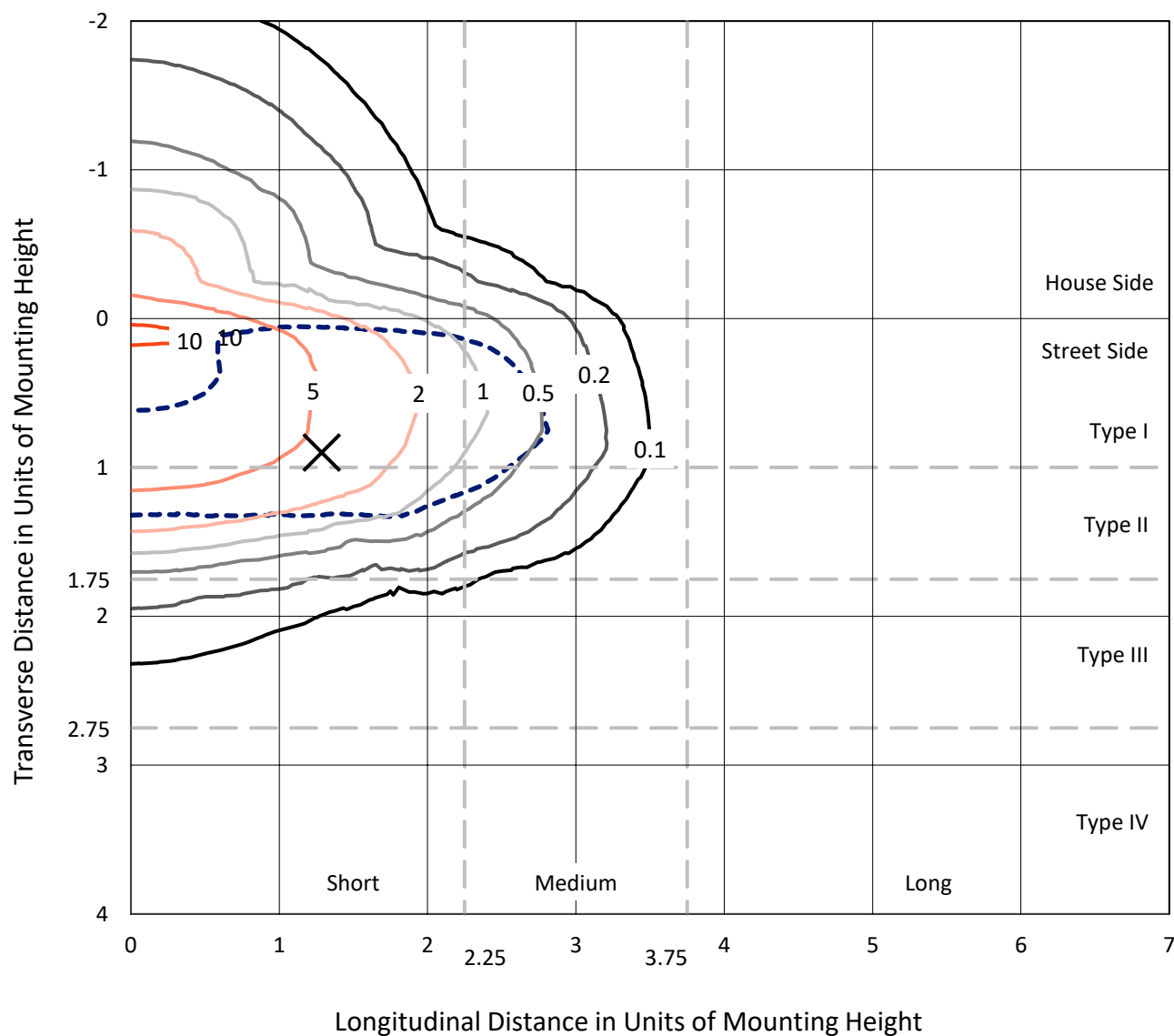
REPORT NUMBER: P964554

CATALOG NUMBER: NAV-SB3C-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

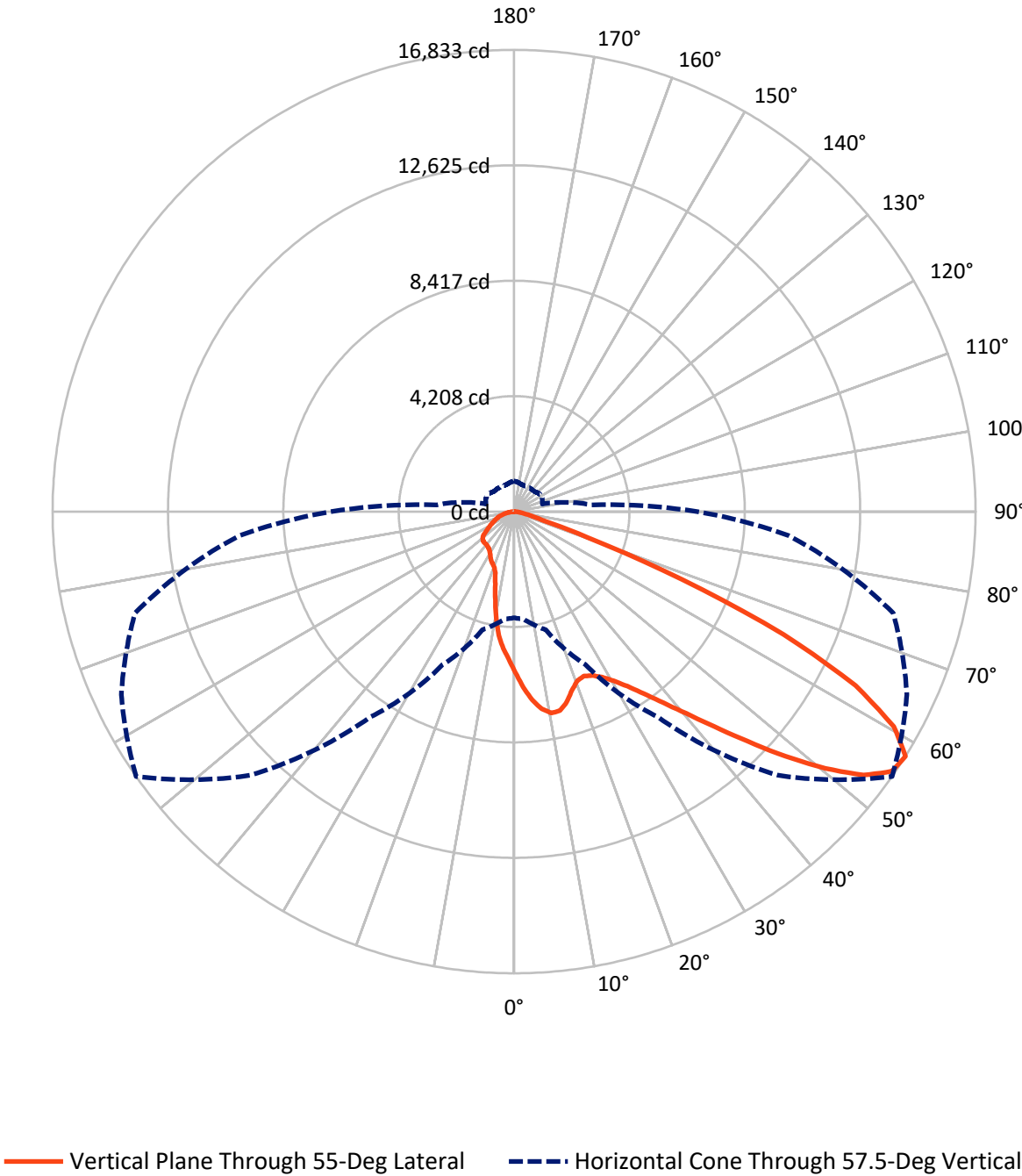


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc

Type II - Short - N/A

REPORT NUMBER: P964554
CATALOG NUMBER: NAV-SB3C-735-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P964554

CATALOG NUMBER: NAV-SB3C-735-U-AFL

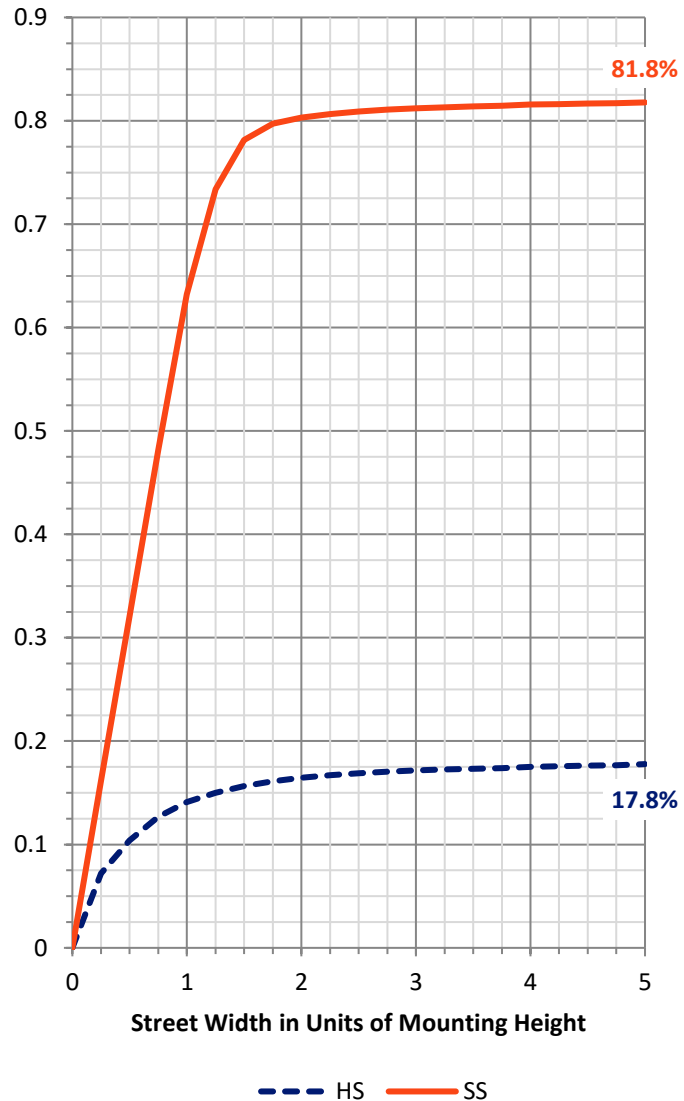
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4238.5	0.0	4238.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19185.8	0.0	19185.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	23424.4	0.0	23424.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	2.3
10°-20°	1374.7	5.9
20°-30°	2193.6	9.4
30°-40°	3473.1	14.8
40°-50°	5315.9	22.7
50°-60°	5693.8	24.3
60°-70°	3582.0	15.3
70°-80°	1059.3	4.5
80°-90°	187.3	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°	23424.4	100.0
0°-180°	23424.4	100.0

Coefficient of Utilization



REPORT NUMBER: P964554

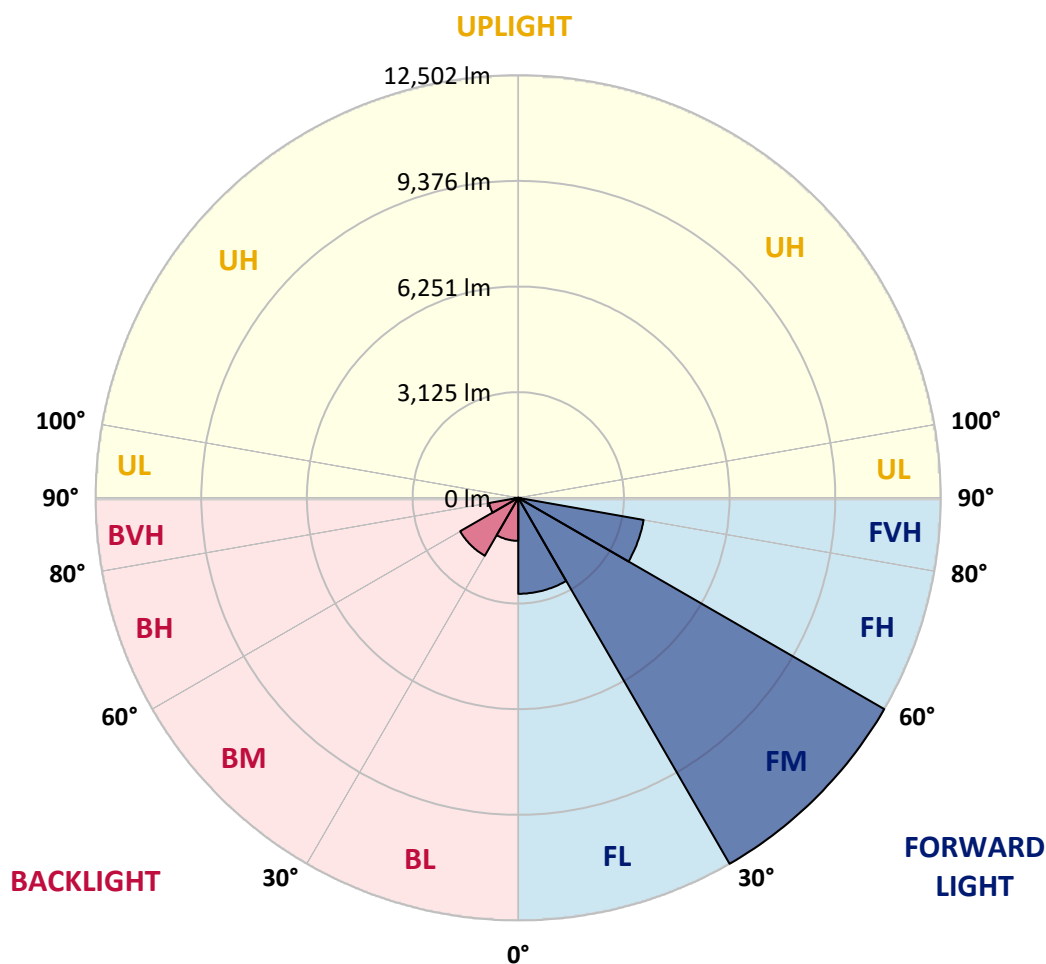
CATALOG NUMBER: NAV-SB3C-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2839.0	12.1			
FM	(30°-60°)	12501.7	53.4			
FH	(60°-80°)	3765.9	16.1			G2/5000
FVH	(80°-90°)	79.1	0.3			G1/100
BL	(0°-30°)	1274.0	5.4	B3/2500		
BM	(30°-60°)	1981.1	8.5	B2/2500		
BH	(60°-80°)	875.4	3.7	B2/1000		G2/1000
BVH	(80°-90°)	108.2	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-G2

Type II Short



REPORT NUMBER: P964554

CATALOG NUMBER: NAV-SB3C-735-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4
2.5°	6733.9	6729.1	6755.8	6665.0	6603.2	6519.6	6409.4	6269.0	6117.6	5957.8	5888.7
5°	7340.6	7298.3	7326.1	7258.3	7190.5	7064.6	6901.1	6672.2	6392.5	6074.0	5904.5
7.5°	7245.0	7215.9	7287.3	7347.9	7398.8	7383.1	7263.2	7023.4	6662.5	6199.9	5954.1
10°	6473.6	6440.9	6541.4	6751.0	7058.5	7326.1	7471.4	7322.5	6938.6	6338.0	6002.6
12.5°	5793.1	5777.3	5843.9	6013.5	6355.0	6868.4	7444.8	7584.1	7225.6	6501.5	6068.0
15°	5502.5	5483.1	5525.5	5611.5	5829.4	6307.7	7202.6	7763.2	7507.7	6690.4	6172.1
17.5°	5438.2	5416.5	5434.7	5479.4	5620.0	5984.5	6837.0	7851.7	7802.0	6901.1	6259.3
20°	5556.9	5538.8	5541.3	5538.8	5636.9	5926.2	6582.7	7817.8	8058.8	7094.8	6344.0
22.5°	5843.9	5813.7	5814.9	5750.7	5804.0	6028.0	6516.0	7727.0	8287.6	7264.4	6408.2
25°	6311.3	6256.9	6267.8	6104.3	6089.7	6255.7	6620.2	7656.7	8515.3	7400.0	6420.4
27.5°	6950.7	6889.0	6856.3	6612.9	6496.7	6579.0	6832.0	7680.9	8730.8	7517.5	6390.1
30°	7749.9	7674.9	7608.3	7263.2	7052.4	7022.2	7161.5	7840.7	8985.0	7641.0	6338.0
32.5°	8729.6	8642.4	8521.3	8063.6	7766.9	7608.3	7587.7	8125.4	9283.0	7798.4	6311.3
35°	9895.8	9781.9	9609.9	9017.7	8642.4	8317.9	8149.6	8535.9	9691.1	8035.7	6341.7
37.5°	11097.0	10968.6	10811.2	10106.4	9645.0	9166.8	8835.0	9092.9	10234.7	8357.8	6421.5
40°	12205.0	12060.9	11914.3	11287.1	10791.8	10215.4	9674.2	9797.7	10899.5	8742.9	6557.2
42.5°	12858.8	12752.3	12696.6	12357.5	11974.9	11390.0	10717.9	10633.1	11646.8	9186.2	6712.2
45°	12829.8	12786.2	12958.2	13098.6	13007.8	12683.2	11940.9	11557.1	12396.2	9570.0	6855.1
47.5°	12144.4	12173.5	12557.4	13346.8	13694.4	13863.9	13333.5	12464.1	13047.7	9857.0	6919.3
50°	10279.6	10303.8	11192.6	12895.2	13871.2	14826.6	14715.2	13349.3	13552.8	10032.6	6904.7
52.5°	8803.4	8819.2	9200.6	11555.8	13287.5	15311.0	15960.1	14183.6	13922.1	10081.0	6823.6
55°	6631.0	6685.6	7113.0	9066.2	11769.0	14927.2	16718.1	15043.4	14155.8	10085.8	6738.9
57.5°	3873.8	3933.1	4461.1	6153.9	9147.4	13589.0	16833.2	15806.2	14314.4	10047.0	6687.9
60°	1897.5	1923.0	2153.0	3234.4	5640.5	11011.0	15908.0	16175.6	14402.8	10026.4	6685.6
62.5°	1278.8	1275.1	1284.8	1596.0	2779.1	7074.2	13980.2	15529.0	14355.5	9947.8	6661.4
65°	1099.5	1086.2	1049.9	1120.1	1439.8	3235.6	10801.4	13598.8	13996.0	9750.4	6495.4
67.5°	950.6	951.8	953.0	931.2	1028.1	1493.1	6600.8	10711.9	12705.1	8815.6	5856.0
70°	787.1	798.0	802.9	802.9	837.9	979.6	2817.8	7341.9	10021.6	6912.0	4716.5
72.5°	716.9	693.8	696.3	684.2	684.2	745.9	1134.7	4162.0	6313.8	3888.3	2878.4
75°	584.9	599.4	601.9	593.4	565.5	569.2	673.3	1746.2	2701.6	1612.9	1422.8
77.5°	504.9	504.9	509.8	503.8	482.0	426.3	449.3	676.9	919.1	661.1	710.8
80°	405.7	404.5	425.1	437.2	403.2	314.9	287.0	374.2	408.1	290.6	369.3
82.5°	197.4	209.5	291.8	333.0	306.4	227.7	175.6	232.5	218.0	128.3	165.9
85°	115.0	109.0	130.8	185.3	175.6	126.0	84.8	121.1	113.9	65.4	66.6
87.5°	36.3	33.9	26.6	62.9	50.8	35.2	23.0	35.2	31.5	14.6	14.6
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: P964554

CATALOG NUMBER: NAV-SB3C-735-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4	5869.4
2.5°	5802.7	5659.8	5518.2	5388.6	5309.9	5259.1	5208.2	5151.3	5129.5	5096.8
5°	5744.6	5468.6	5222.8	5010.8	4818.3	4666.9	4514.3	4390.8	4335.1	4372.6
7.5°	5710.8	5311.1	4932.1	4543.4	4169.2	3870.1	3609.7	3426.9	3344.6	3365.2
10°	5680.4	5133.1	4555.5	3941.5	3403.9	3033.4	2767.0	2627.7	2575.6	2586.6
12.5°	5652.7	4933.3	4101.4	3293.7	2722.2	2477.5	2401.3	2402.5	2412.1	2419.4
15°	5647.7	4692.3	3594.1	2727.0	2354.0	2338.3	2420.6	2472.7	2500.6	2509.0
17.5°	5640.5	4404.1	3076.9	2340.7	2264.4	2371.0	2447.3	2481.2	2502.9	2504.2
20°	5611.5	4038.5	2599.9	2156.7	2245.1	2337.1	2384.4	2411.0	2429.1	2435.2
22.5°	5521.9	3631.6	2228.1	2074.3	2167.6	2241.5	2297.1	2327.4	2338.3	2345.6
25°	5360.7	3176.3	1971.4	1995.6	2059.8	2153.0	2197.8	2203.9	2200.3	2211.1
27.5°	5150.1	2688.3	1811.6	1889.1	1971.4	2051.3	2075.5	2071.9	2064.7	2076.8
30°	4895.8	2249.9	1709.8	1769.2	1881.8	1954.5	1976.2	1967.8	1953.2	1966.6
32.5°	4627.0	1891.4	1626.3	1685.6	1807.9	1879.3	1901.2	1892.7	1881.8	1892.7
35°	4376.3	1640.8	1548.8	1630.0	1749.8	1820.0	1847.9	1849.1	1849.1	1862.4
37.5°	4146.2	1494.2	1484.6	1594.8	1709.8	1772.8	1812.7	1815.2	1763.1	1766.8
40°	3933.1	1432.5	1455.5	1571.8	1671.1	1731.6	1734.1	1598.4	1502.8	1500.3
42.5°	3758.7	1420.4	1464.0	1569.4	1643.3	1645.6	1474.9	1369.6	1343.0	1344.1
45°	3595.3	1416.8	1483.4	1569.4	1602.1	1421.7	1306.6	1278.8	1281.1	1290.9
47.5°	3412.4	1402.3	1487.1	1547.5	1483.4	1264.2	1230.3	1218.2	1213.4	1215.8
50°	3212.6	1350.2	1441.0	1504.0	1279.9	1196.4	1154.0	1150.4	1156.4	1160.1
52.5°	3001.9	1265.5	1362.3	1425.3	1186.7	1137.0	1089.9	1098.3	1124.9	1133.4
55°	2863.8	1166.1	1258.2	1267.8	1121.4	1081.4	1041.4	1060.8	1110.4	1126.2
57.5°	2827.6	1060.8	1139.5	1128.6	1037.8	1032.9	1008.7	1025.6	1088.7	1111.6
60°	2816.6	966.4	1023.3	1014.7	956.6	979.6	973.5	982.1	1003.9	1011.2
62.5°	2731.8	891.2	919.1	907.0	884.0	923.9	938.5	920.3	937.3	945.8
65°	2516.3	830.7	817.3	808.9	818.6	855.0	884.0	847.7	863.4	887.6
67.5°	2160.3	748.4	712.1	721.7	751.9	771.3	808.9	767.7	781.0	822.3
70°	1747.4	644.2	611.5	639.4	668.4	708.4	714.4	686.6	718.1	764.1
72.5°	1236.4	538.8	515.9	572.8	582.5	634.6	621.3	607.9	651.5	667.2
75°	857.3	434.7	421.4	465.0	500.1	544.9	535.3	550.9	643.0	650.3
77.5°	542.5	337.8	329.3	357.2	405.7	455.3	471.1	650.3	1098.3	1142.0
80°	314.9	251.8	242.2	263.9	306.4	352.4	454.1	798.0	724.2	715.7
82.5°	175.6	173.1	161.0	167.1	204.7	254.3	641.8	561.9	456.5	471.1
85°	82.3	101.7	87.2	83.5	115.0	297.9	428.7	320.9	213.1	208.3
87.5°	21.8	19.4	19.4	21.8	48.5	256.8	170.8	136.8	81.2	78.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)