

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: P970883

Luminaire Tested: **NAV-SB6C-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45494.6 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

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

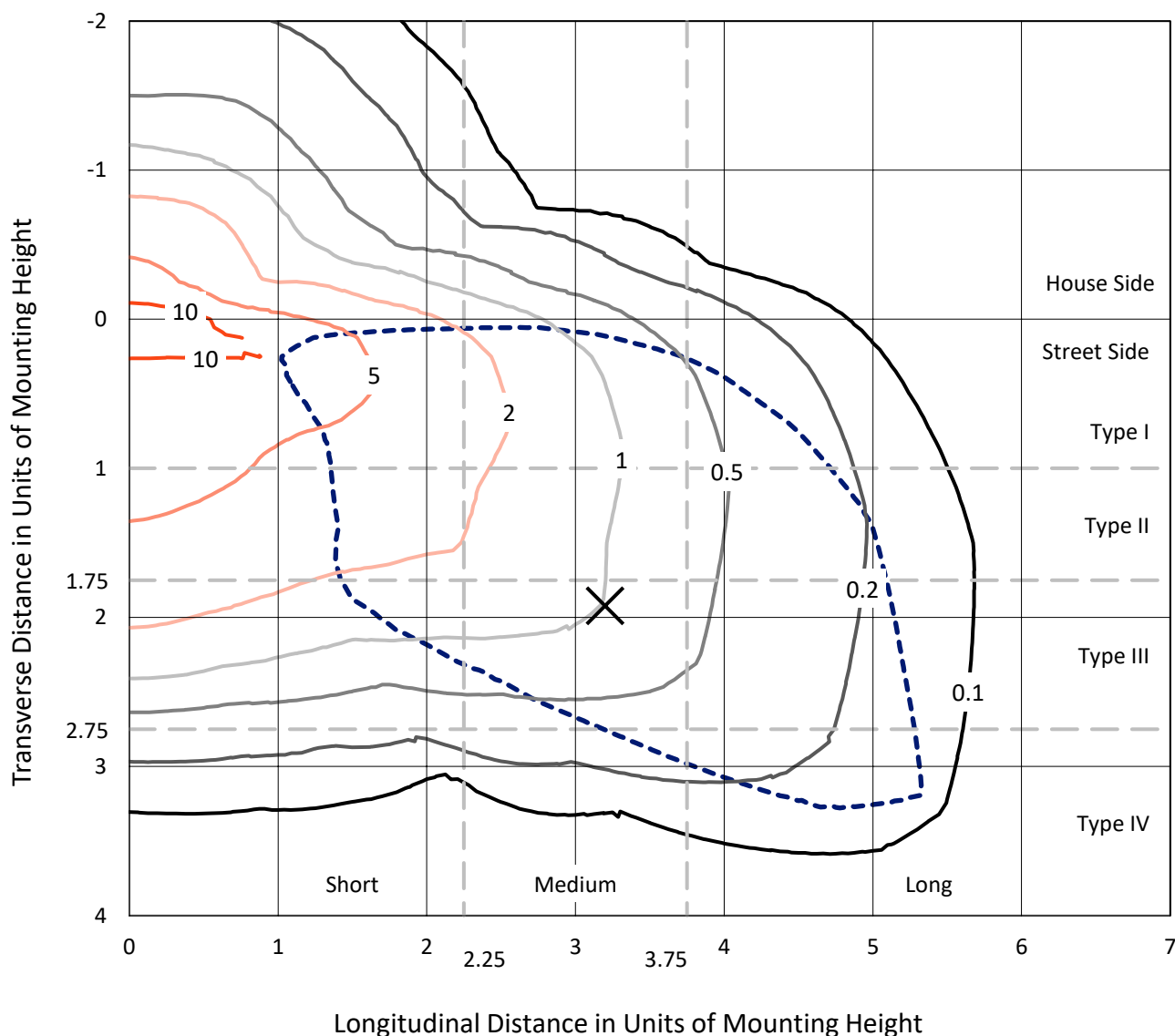


REPORT NUMBER: P970883

CATALOG NUMBER: NAV-SB6C-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

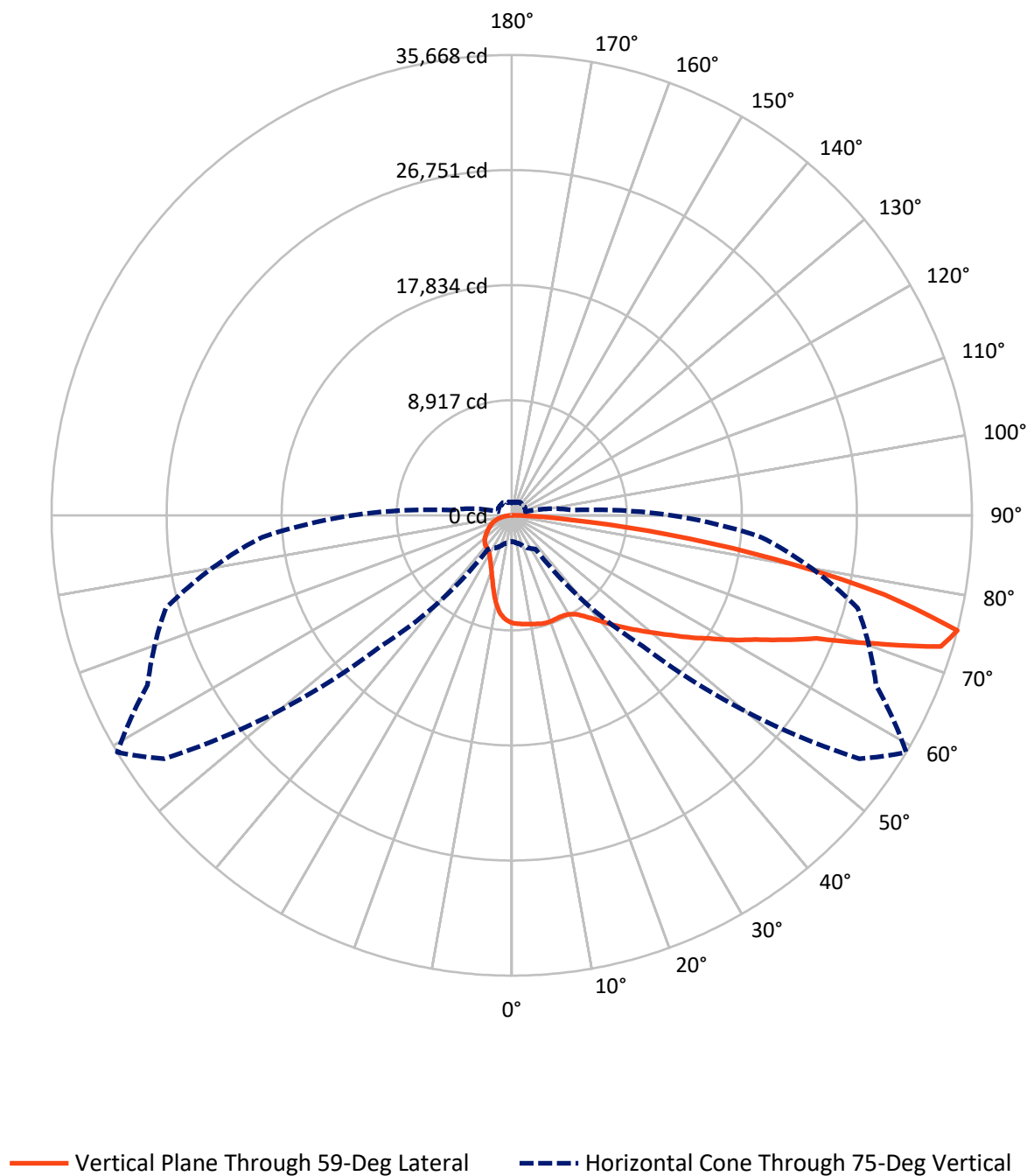


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P970883

CATALOG NUMBER: NAV-SB6C-735-U-SL3

Luminous Intensity Polar Plot



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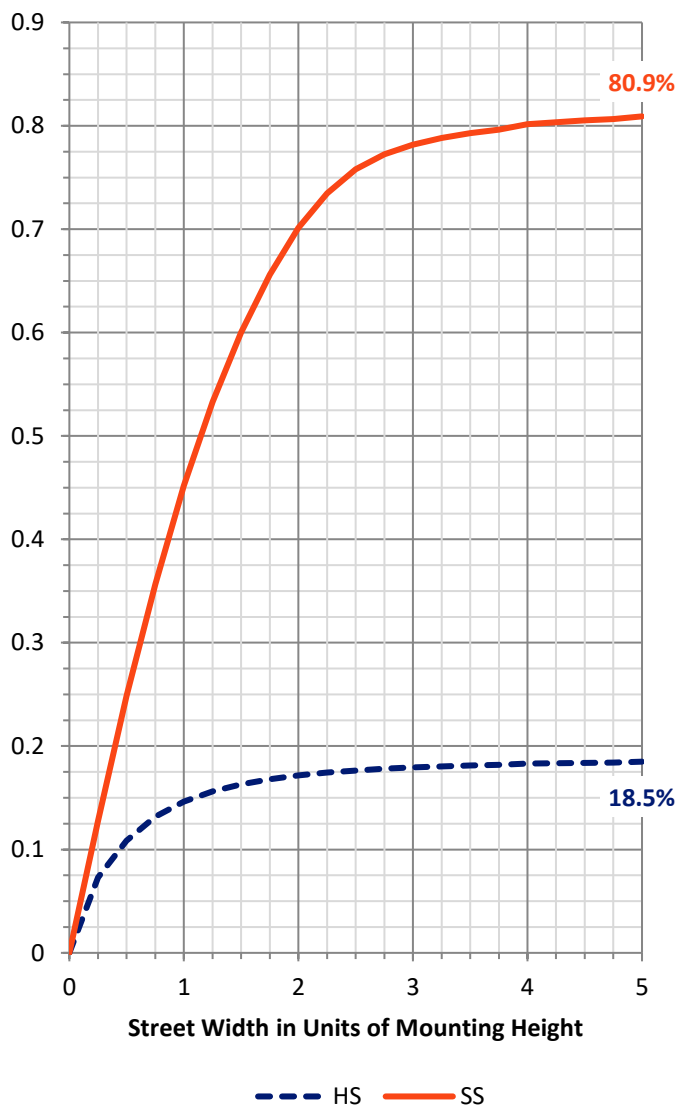
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8532.8	0.0	8532.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36961.8	0.0	36961.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	45494.6	0.0	45494.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.7	1.6
10°-20°	1913.9	4.2
20°-30°	2907.0	6.4
30°-40°	4321.2	9.5
40°-50°	6426.3	14.1
50°-60°	8723.0	19.2
60°-70°	10649.3	23.4
70°-80°	8357.5	18.4
80°-90°	1447.7	3.2
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°	45494.6	100.0
0°-180°	45494.6	100.0

Coefficient of Utilization



REPORT NUMBER: P970883

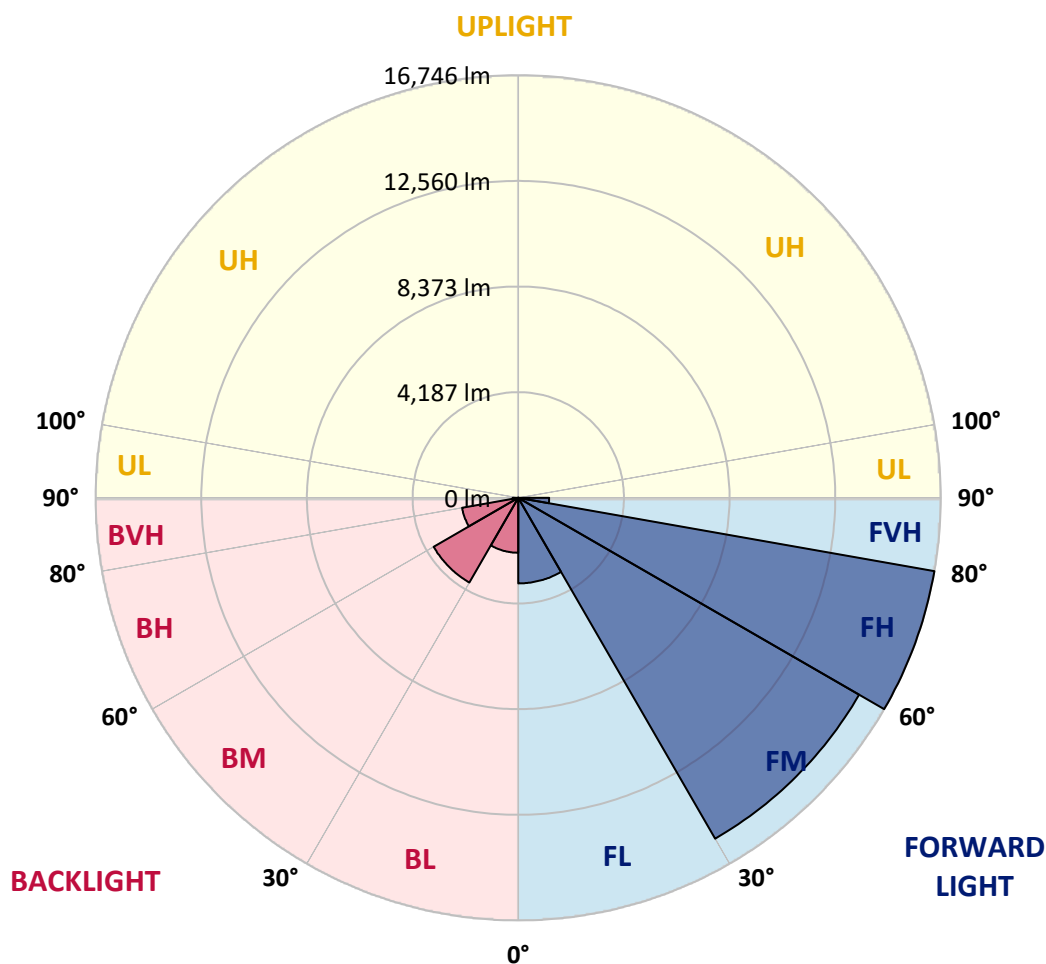
CATALOG NUMBER: NAV-SB6C-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3392.1	7.5			
FM	(30°-60°)	15597.5	34.3			
FH	(60°-80°)	16746.1	36.8			G5
FVH	(80°-90°)	1226.1	2.7			G5
BL	(0°-30°)	2177.5	4.8	B3/2500		
BM	(30°-60°)	3873.0	8.5	B3/5000		
BH	(60°-80°)	2260.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	221.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



REPORT NUMBER: P970883

CATALOG NUMBER: NAV-SB6C-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5
2.5°	8421.4	8392.1	8421.4	8409.2	8404.3	8394.4	8396.9	8414.0	8404.3	8416.5	8374.9
5°	8365.1	8348.0	8377.3	8370.0	8401.8	8406.7	8438.5	8458.1	8470.4	8472.9	8441.0
7.5°	8272.2	8254.9	8296.6	8330.9	8399.4	8418.9	8485.1	8516.8	8533.9	8563.4	8516.8
10°	7932.0	7924.6	8027.4	8157.1	8318.6	8418.9	8519.3	8573.1	8600.1	8678.4	8624.6
12.5°	7329.9	7339.7	7474.3	7723.9	8047.0	8370.0	8558.4	8636.8	8678.4	8776.3	8751.8
15°	6754.7	6752.3	6899.2	7165.9	7618.7	8154.7	8578.0	8712.6	8783.6	8928.1	8908.5
17.5°	6421.9	6412.1	6514.9	6718.1	7139.0	7824.2	8529.1	8754.2	8906.0	9087.1	9069.9
20°	6360.7	6341.2	6395.0	6495.3	6793.9	7462.0	8401.8	8754.2	9003.9	9238.8	9229.0
22.5°	6583.5	6551.6	6529.6	6517.4	6649.5	7163.4	8257.4	8724.9	9148.3	9456.6	9439.5
25°	7031.3	6982.4	6869.8	6759.7	6720.5	7028.8	8130.2	8717.5	9363.7	9750.3	9686.7
27.5°	7755.8	7694.6	7466.9	7202.6	6965.2	7097.4	8073.9	8761.6	9601.1	10061.2	9933.9
30°	8653.9	8587.9	8301.5	7895.3	7469.4	7351.9	8144.9	8891.3	9904.5	10474.8	10225.1
32.5°	9459.1	9385.7	9140.9	8727.4	8152.2	7792.5	8370.0	9138.5	10381.7	11049.9	10663.2
35°	10173.7	10088.0	9867.8	9486.1	8989.2	8411.7	8776.3	9576.6	11059.6	11984.8	11257.9
37.5°	10873.7	10773.4	10533.5	10129.7	9782.2	9236.4	9336.7	10139.5	11960.3	13120.4	12046.0
40°	11656.8	11512.5	11221.2	10822.3	10484.5	10203.1	10073.4	10829.6	12875.6	14388.1	13029.8
42.5°	12415.5	12278.5	11930.9	11590.8	11167.4	11086.6	10927.5	11637.2	13876.7	15780.7	14028.4
45°	13233.0	13069.0	12648.0	12217.3	11950.5	11673.9	11754.7	12444.9	14858.0	17200.1	15075.8
47.5°	13998.9	13815.5	13318.6	12838.9	12692.1	12168.4	12513.4	13333.3	15878.6	18639.2	16113.5
50°	14412.6	14231.5	13817.8	13384.7	13269.6	12777.8	13335.8	14309.8	16948.1	20073.4	17109.6
52.5°	14757.6	14561.9	14021.0	13781.1	13746.9	13440.9	14349.0	15425.8	18017.6	21341.1	18071.4
55°	15124.8	14907.0	14216.7	14001.4	14158.0	14185.0	15550.6	16691.1	19148.2	22577.1	18979.4
57.5°	15548.1	15271.6	14405.2	14187.4	14559.4	15056.2	16930.9	18002.9	20259.3	23722.4	19787.0
60°	15947.1	15668.0	14767.5	14483.6	14992.6	16067.0	18514.4	19591.2	21517.3	24743.0	20550.6
62.5°	16025.4	15795.4	15056.2	15053.8	15580.0	17246.6	20389.1	21194.2	22616.2	25751.3	21235.8
65°	14669.6	14525.2	14087.1	15031.7	16421.8	18945.1	22476.7	23245.2	24013.6	26632.3	21837.9
67.5°	11164.9	11184.5	11152.7	12976.0	15741.5	21385.2	25499.1	25440.4	25739.0	27621.1	22530.5
70°	5105.2	5220.2	5969.2	8957.4	12611.3	21666.6	30496.7	29735.6	27904.9	28901.0	23130.1
72.5°	2758.2	2846.3	3152.2	4339.2	7581.9	19263.2	34231.4	34772.3	30785.5	29762.5	22471.8
75°	2024.0	2073.0	2285.9	2758.2	3184.1	14317.1	32892.7	35668.1	31145.2	27753.2	19405.2
77.5°	1514.9	1537.0	1710.7	2185.5	1630.0	7547.7	26282.3	29539.8	26661.7	22802.1	14334.2
80°	1098.9	1123.3	1253.1	1639.7	1142.9	2760.6	18047.0	20734.1	18259.9	14534.9	7143.8
82.5°	758.7	768.4	824.7	1116.0	797.9	1071.9	10239.9	12158.6	10193.3	5100.3	1928.5
85°	457.7	469.9	494.4	651.0	452.7	509.0	4420.0	4571.7	3047.0	1218.8	599.6
87.5°	188.5	200.7	220.3	274.1	178.7	142.0	729.3	915.3	570.2	357.3	186.0
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: P970883

CATALOG NUMBER: NAV-SB6C-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5	8350.5
2.5°	8362.7	8345.6	8299.0	8235.4	8176.6	8103.2	8071.5	8044.5	8020.0	7973.6	7951.5
5°	8414.0	8367.6	8242.7	8081.2	7897.6	7697.0	7501.2	7366.6	7251.6	7165.9	7094.9
7.5°	8492.4	8404.3	8176.6	7846.3	7425.3	6994.6	6605.5	6328.9	6120.9	6045.0	5912.8
10°	8573.1	8467.9	8071.5	7489.0	6762.1	6098.9	5582.5	5298.5	5132.2	5078.3	4995.1
12.5°	8668.6	8514.4	7907.5	6992.1	6020.5	5293.7	4843.3	4677.0	4591.3	4561.9	4569.2
15°	8808.1	8553.5	7660.2	6370.5	5313.3	4706.3	4415.1	4300.1	4256.0	4253.5	4263.3
17.5°	8913.3	8560.9	7276.1	5704.8	4769.9	4351.4	4111.6	4067.5	4096.9	4141.0	4158.1
20°	9030.8	8494.8	6771.9	5097.8	4388.1	4040.7	3940.3	3969.6	4040.7	4104.2	4126.2
22.5°	9114.0	8374.9	6162.5	4625.5	4057.8	3862.0	3857.1	3918.3	3957.4	3989.2	4006.3
25°	9187.5	8171.8	5516.3	4229.0	3786.0	3754.3	3808.1	3788.5	3761.6	3788.5	3805.6
27.5°	9241.3	7851.2	4938.8	3881.6	3595.2	3680.9	3649.0	3605.0	3602.6	3617.2	3641.7
30°	9224.2	7422.8	4464.0	3551.1	3460.6	3543.8	3467.9	3460.6	3453.2	3460.6	3487.5
32.5°	9224.2	6935.9	4099.4	3323.6	3374.9	3343.1	3335.8	3318.6	3289.2	3286.9	3318.6
35°	9275.5	6448.8	3786.0	3201.2	3304.0	3228.1	3233.0	3191.3	3130.1	3100.8	3130.1
37.5°	9380.8	6057.2	3475.3	3142.4	3179.1	3176.7	3157.1	3086.2	2978.4	2885.5	2917.3
40°	9635.3	5942.2	3262.4	3115.5	3120.4	3149.7	3098.4	2961.3	2716.6	2564.9	2584.4
42.5°	10034.2	6135.5	3215.8	3049.5	3081.3	3110.6	3010.2	2692.1	2518.3	2427.8	2427.8
45°	10540.8	6473.3	3316.2	2953.9	2988.3	3039.6	2741.1	2589.4	2511.0	2513.4	2525.7
47.5°	11182.0	6828.1	3502.2	2870.7	2853.6	2883.0	2562.4	2469.4	2361.7	2388.7	2457.1
50°	11923.6	7187.9	3678.4	2758.2	2704.4	2608.9	2447.4	2359.2	2222.2	2158.5	2175.7
52.5°	12726.3	7535.5	3749.3	2621.1	2542.8	2432.7	2369.1	2261.4	2095.0	1989.7	1987.3
55°	13487.5	7851.2	3671.0	2457.1	2381.3	2295.6	2285.9	2219.7	2041.1	1894.3	1894.3
57.5°	14207.0	8115.5	3475.3	2290.8	2217.3	2165.9	2232.0	2200.2	1975.1	1786.6	1776.8
60°	14816.4	8296.6	3191.3	2121.9	2070.5	2043.5	2143.9	2134.2	1882.0	1671.6	1664.2
62.5°	15301.0	8367.6	2878.1	1960.3	1948.1	1899.1	2021.5	2021.5	1764.5	1559.0	1551.6
65°	15680.3	8299.0	2559.9	1801.2	1825.7	1752.3	1872.3	1857.5	1639.7	1458.7	1448.8
67.5°	16015.6	8073.9	2207.5	1644.6	1700.9	1607.9	1715.6	1681.3	1502.6	1358.3	1348.5
70°	16164.9	7550.2	1806.2	1488.0	1556.6	1466.0	1559.0	1495.4	1348.5	1250.6	1231.0
72.5°	14965.7	6275.0	1421.9	1324.0	1382.7	1309.3	1390.1	1316.7	1182.0	1138.1	1101.4
75°	12381.3	4708.7	1094.0	1145.3	1189.4	1133.1	1186.9	1133.1	1010.8	1042.6	952.0
77.5°	8991.6	3179.1	837.0	956.9	976.5	947.1	993.6	932.4	822.4	815.0	778.3
80°	4471.4	1862.4	655.9	756.2	748.9	729.3	783.2	753.8	660.8	700.0	692.6
82.5°	1294.7	797.9	477.2	531.1	516.4	521.3	560.5	575.1	861.5	854.1	873.7
85°	406.3	313.2	286.4	296.1	281.5	288.7	330.4	655.9	606.9	354.9	384.3
87.5°	105.3	107.7	70.9	75.8	78.3	93.0	105.3	398.9	190.9	124.8	132.1
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)