

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: P884936

Luminaire Tested: **NAV-SB6A-727-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-727-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

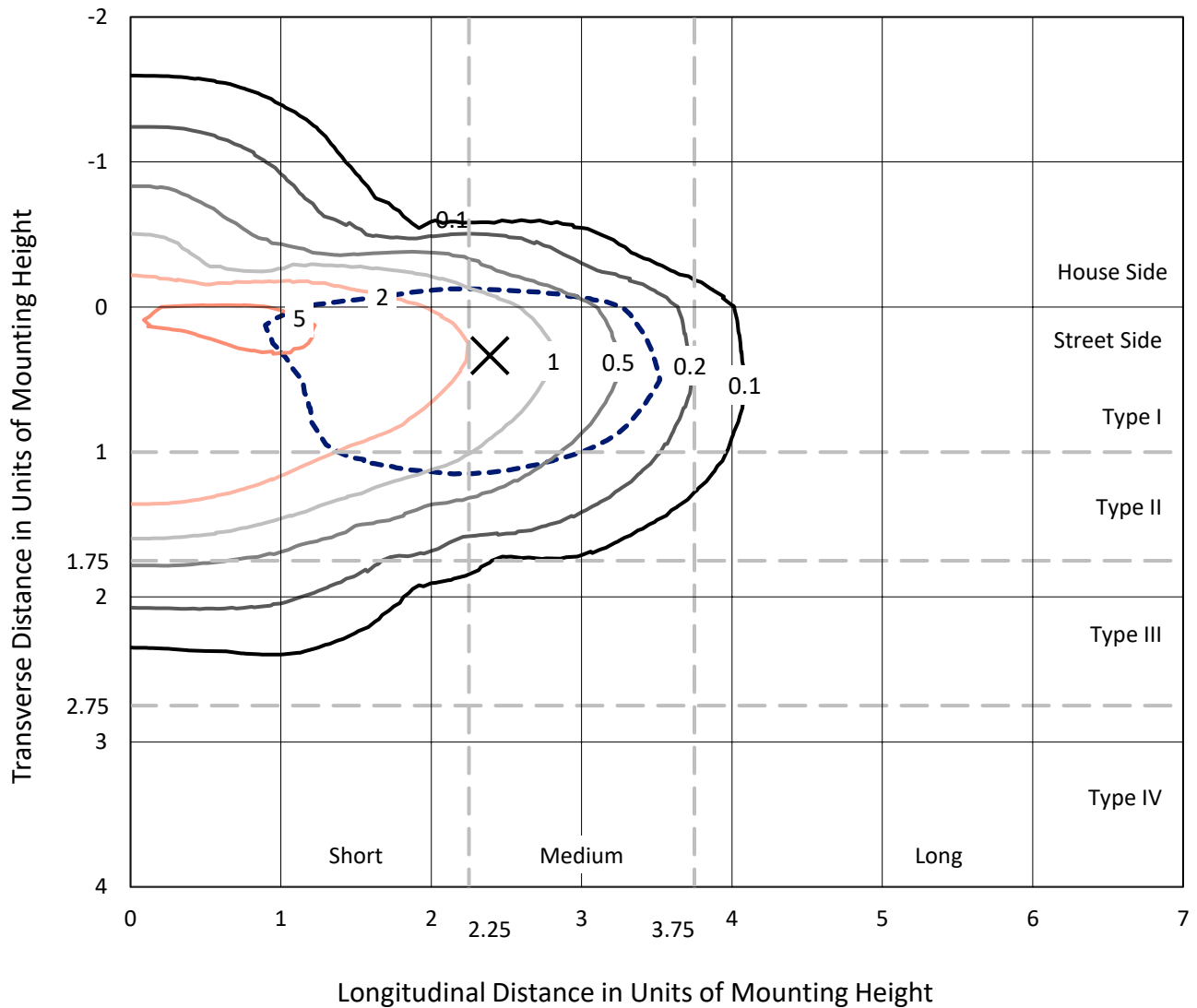
Lumens per Lamp: N/A  
Luminaire Lumens: 18018 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P884936  
 CATALOG NUMBER: NAV-SB6A-727-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

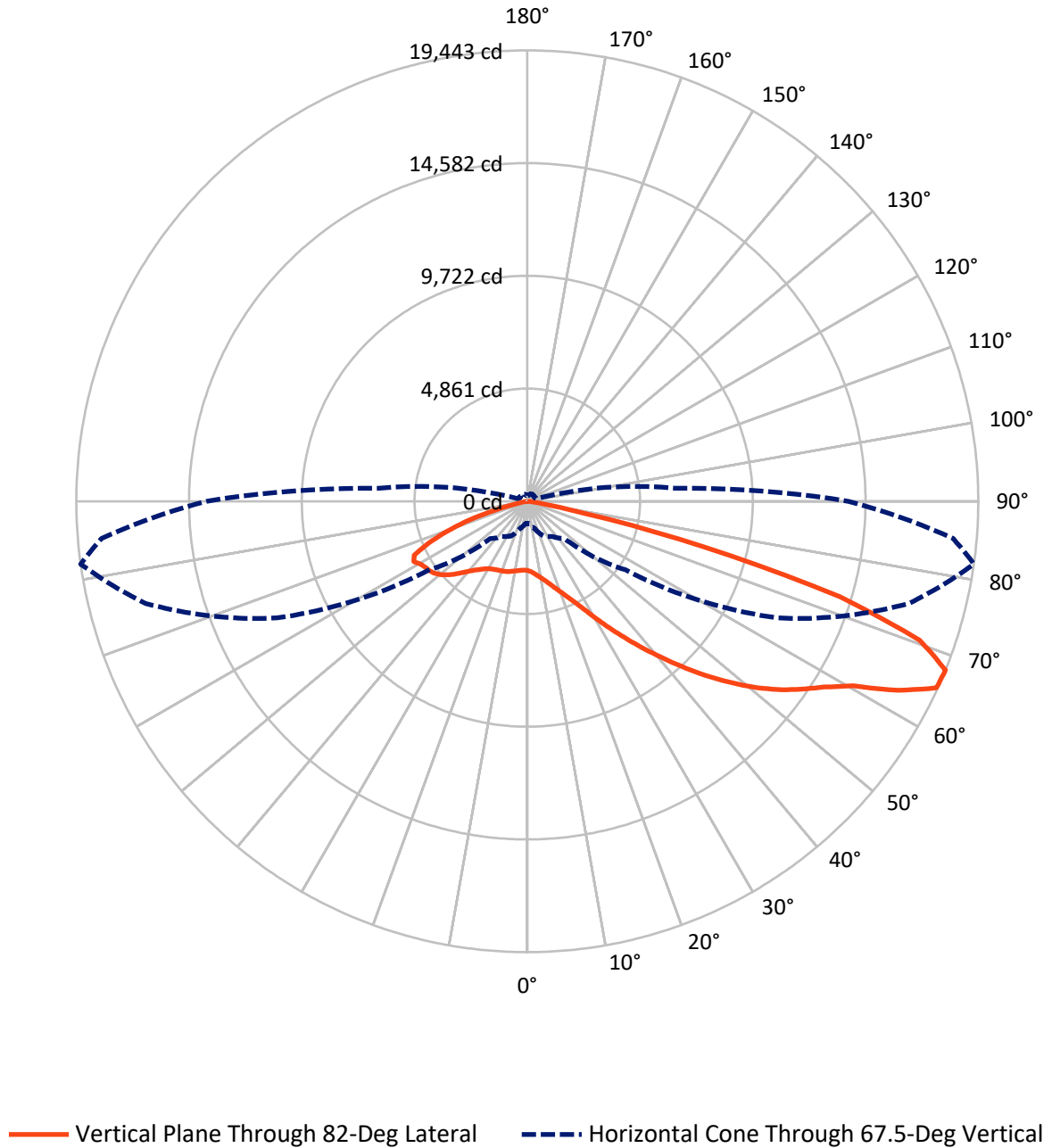
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P884936  
CATALOG NUMBER: NAV-SB6A-727-U-T2-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P884936

CATALOG NUMBER: NAV-SB6A-727-U-T2-HSS

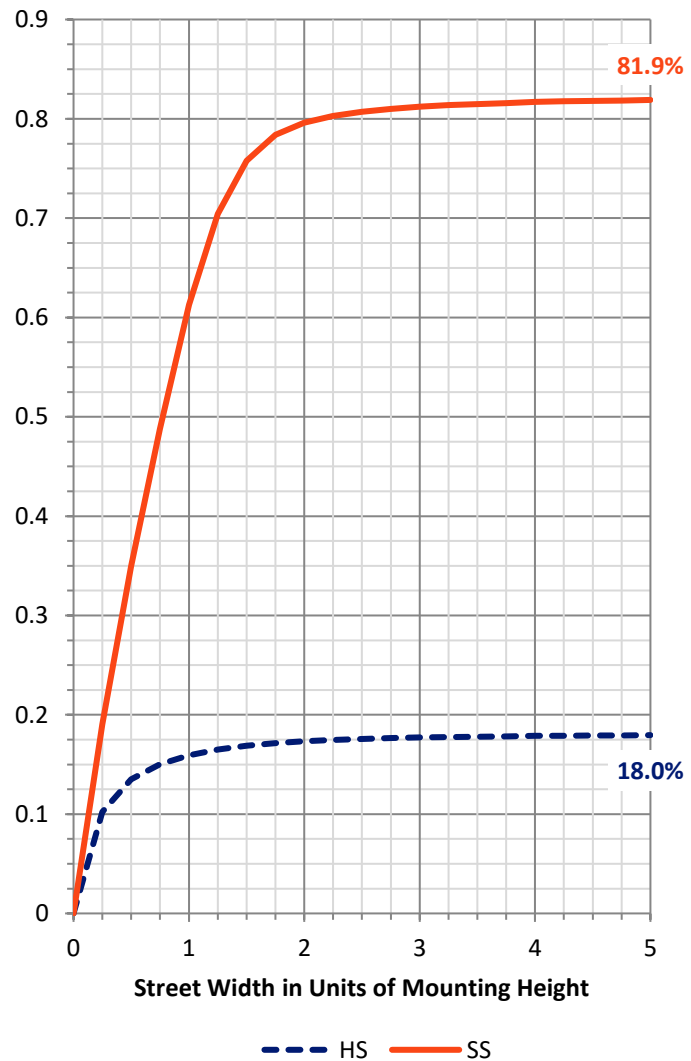
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3263.8	0.0	3263.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	14754.2	0.0	14754.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	18018.0	0.0	18018.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.9	1.5
10°-20°	691.1	3.8
20°-30°	1106.9	6.1
30°-40°	1957.3	10.9
40°-50°	3429.4	19.0
50°-60°	4573.8	25.4
60°-70°	4258.0	23.6
70°-80°	1634.2	9.1
80°-90°	101.5	0.6
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°	18018.0	100.0
0°-180°	18018.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P884936

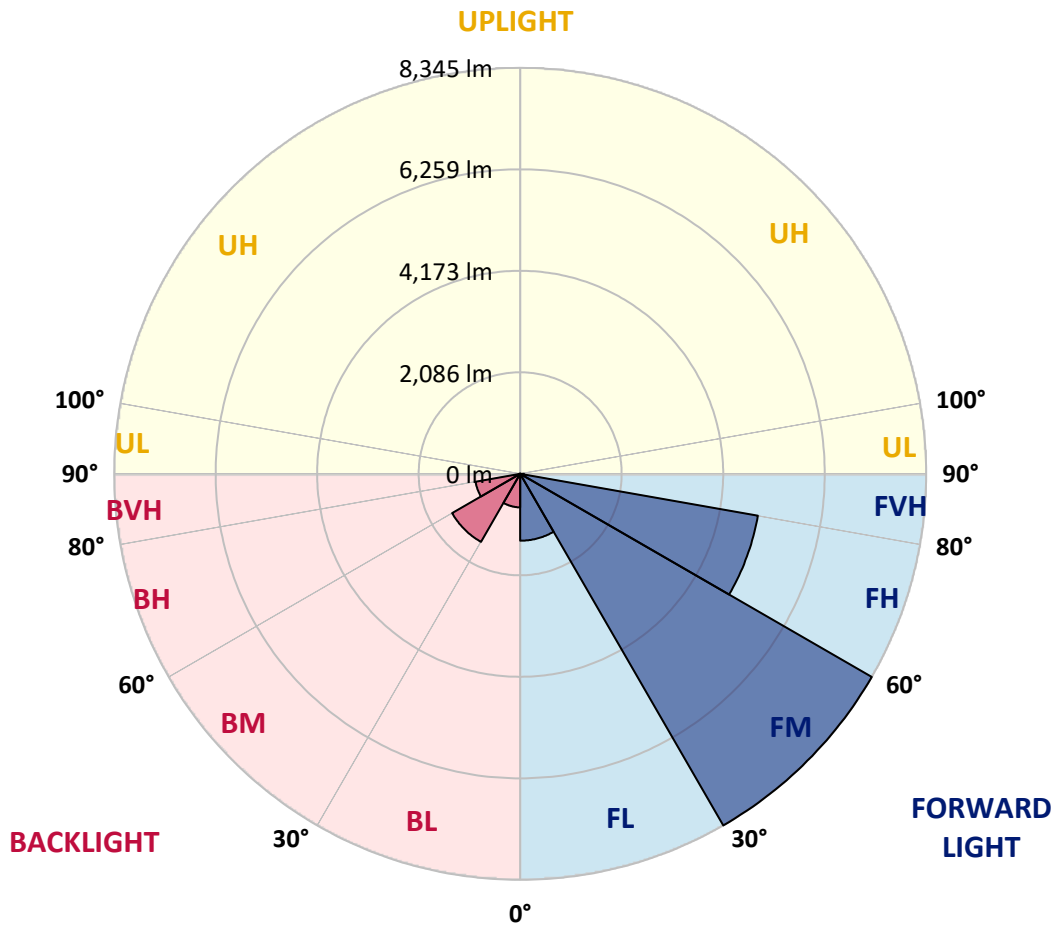
CATALOG NUMBER: NAV-SB6A-727-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.6	7.6			
FM (30°-60°)	8345.2	46.3			
FH (60°-80°)	4960.6	27.5			G2/5000
FVH (80°-90°)	73.8	0.4			G1/100
BL (0°-30°)	689.3	3.8	B2/1000		
BM (30°-60°)	1615.2	9.0	B2/2500		
BH (60°-80°)	931.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



REPORT NUMBER: P884936

CATALOG NUMBER: NAV-SB6A-727-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0
2.5°	3154.9	3173.1	3162.7	3157.5	3148.4	3135.5	3125.1	3092.6	3058.9	3036.9	3029.1
5°	3218.5	3236.6	3235.3	3240.5	3247.0	3250.9	3248.3	3212.0	3164.0	3126.4	3104.3
7.5°	3164.0	3184.7	3201.6	3227.6	3273.0	3321.0	3344.3	3336.5	3287.2	3235.3	3208.1
10°	3009.6	3031.7	3071.9	3132.9	3228.9	3332.6	3419.6	3459.8	3428.6	3371.6	3333.9
12.5°	2726.8	2748.9	2828.0	2960.3	3121.2	3301.5	3467.5	3575.2	3583.0	3525.9	3481.8
15°	2409.0	2431.0	2515.4	2681.4	2926.6	3215.9	3493.5	3697.2	3765.9	3716.6	3663.4
17.5°	2211.8	2231.3	2294.8	2428.5	2684.0	3044.6	3484.4	3826.9	3983.9	3944.9	3881.4
20°	2152.1	2169.0	2198.8	2292.2	2505.0	2866.9	3424.7	3948.8	4218.7	4196.6	4125.3
22.5°	2215.7	2231.3	2240.4	2281.9	2415.5	2750.2	3349.5	4073.4	4491.1	4493.7	4406.8
25°	2362.3	2377.9	2367.5	2393.4	2451.8	2713.8	3321.0	4220.0	4833.6	4862.1	4763.5
27.5°	2603.6	2604.9	2580.2	2578.9	2588.0	2768.3	3350.8	4376.9	5265.5	5318.7	5196.8
30°	3087.5	3068.0	2973.3	2870.8	2824.1	2931.8	3433.8	4562.4	5775.4	5870.1	5717.0
32.5°	3833.4	3804.8	3631.0	3385.8	3139.3	3195.1	3583.0	4773.9	6330.6	6501.8	6315.0
35°	4642.9	4635.1	4453.5	4088.9	3658.2	3570.0	3825.6	5051.5	6936.4	7208.8	6987.0
37.5°	5395.3	5391.4	5287.6	4858.2	4334.1	4092.8	4214.8	5414.7	7585.0	7979.4	7717.3
40°	6082.8	6094.5	5990.7	5606.7	5078.7	4763.5	4744.0	5863.6	8306.3	8818.7	8507.4
42.5°	6676.9	6689.9	6584.8	6300.7	5814.3	5505.5	5394.0	6413.6	9010.7	9720.3	9351.9
45°	7080.4	7160.8	7145.3	6918.2	6569.3	6248.9	6174.9	7103.7	9813.7	10676.4	10244.4
47.5°	7194.5	7268.5	7385.2	7416.4	7203.6	6888.4	6976.6	7935.3	10625.8	11633.7	11142.1
50°	6913.0	6981.8	7224.4	7547.4	7695.3	7598.0	7756.3	8826.5	11457.3	12588.5	12022.9
52.5°	6357.8	6427.9	6734.0	7245.1	7848.4	8154.5	8538.5	9704.7	12262.9	13492.7	12857.0
55°	5554.8	5628.8	6021.8	6600.4	7556.5	8384.1	9191.0	10581.7	13001.0	14306.1	13609.5
57.5°	4462.5	4517.0	4925.7	5735.1	6822.2	8155.8	9672.3	11539.0	13696.4	15105.2	14355.4
60°	2908.4	2956.4	3431.2	4334.1	5605.4	7393.0	9768.3	12606.7	14620.0	16144.3	15360.7
62.5°	1934.2	1966.6	2248.1	2911.0	3947.5	5928.4	9206.6	13459.0	15974.3	17952.6	17084.8
65°	1327.1	1359.5	1641.0	2102.8	2550.4	3921.6	7591.5	13346.1	17201.5	19388.7	18362.6
67.5°	947.0	974.2	1212.9	1648.8	1846.0	2278.0	5146.2	11903.6	17025.1	19443.2	18431.3
70°	678.5	694.0	891.2	1284.3	1467.2	1368.6	2861.7	9104.1	14906.7	17953.9	17027.7
72.5°	474.8	480.0	618.8	978.1	1181.8	998.9	1362.1	6069.8	11274.4	14092.0	13200.8
75°	321.7	328.2	416.4	717.4	948.3	762.8	721.3	3254.8	6618.6	7800.4	6992.2
77.5°	197.2	199.8	268.5	490.4	709.6	581.2	464.4	1379.0	2560.8	2514.1	2143.1
80°	111.6	111.6	171.2	304.9	483.9	374.9	325.6	586.4	810.8	712.2	627.9
82.5°	62.3	63.6	124.5	189.4	320.4	221.8	179.0	271.1	350.3	310.0	269.8
85°	25.9	28.5	76.5	89.5	153.1	110.3	72.6	114.2	129.7	115.5	84.3
87.5°	2.6	3.9	23.4	16.9	18.2	22.1	10.4	22.1	18.2	18.2	13.0
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: P884936

CATALOG NUMBER: NAV-SB6A-727-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0
2.5°	3004.4	2985.0	2935.7	2878.6	2803.4	2767.0	2717.7	2684.0	2655.5	2658.1	2632.1
5°	3062.8	3013.5	2903.2	2765.7	2594.5	2472.6	2342.8	2253.3	2180.7	2165.1	2130.1
7.5°	3143.2	3065.4	2872.1	2624.3	2335.1	2115.8	1919.9	1794.1	1704.6	1676.0	1647.5
10°	3247.0	3134.2	2831.9	2446.6	2030.2	1751.3	1541.1	1442.5	1381.6	1360.8	1345.2
12.5°	3367.7	3213.3	2778.7	2230.0	1716.3	1447.7	1314.1	1264.8	1245.4	1238.9	1235.0
15°	3519.4	3311.9	2698.3	1973.1	1450.3	1262.2	1205.1	1198.7	1201.3	1198.7	1197.4
17.5°	3699.8	3419.6	2567.3	1708.5	1271.3	1167.5	1146.8	1152.0	1158.4	1157.1	1154.6
20°	3896.9	3525.9	2399.9	1473.7	1149.4	1100.1	1088.4	1093.6	1098.8	1096.2	1094.9
22.5°	4121.4	3640.1	2214.4	1290.8	1067.6	1037.8	1024.8	1026.1	1026.1	1020.9	1018.3
25°	4389.9	3765.9	2019.8	1161.0	1005.4	982.0	966.5	961.3	953.5	937.9	935.3
27.5°	4710.3	3899.5	1833.0	1070.2	956.1	934.0	915.9	902.9	883.4	857.5	854.9
30°	5071.0	4061.7	1674.8	1013.2	917.2	895.1	874.3	854.9	826.3	793.9	791.3
32.5°	5495.2	4235.5	1559.3	975.5	882.1	858.8	834.1	810.8	779.6	747.2	748.5
35°	6001.1	4445.7	1491.8	949.6	854.9	823.8	796.5	770.6	747.2	718.7	716.1
37.5°	6549.8	4668.8	1471.1	936.6	836.7	788.7	757.6	739.4	736.8	720.0	718.7
40°	7150.4	4933.4	1486.6	928.8	817.3	755.0	721.3	717.4	723.9	694.0	695.3
42.5°	7786.1	5247.4	1512.6	919.8	790.0	721.3	688.8	688.8	683.7	642.1	642.1
45°	8473.6	5609.3	1538.5	897.7	757.6	687.5	662.9	653.8	631.8	591.5	590.2
47.5°	9166.4	5977.7	1558.0	857.5	718.7	659.0	636.9	616.2	583.8	547.4	546.1
50°	9824.1	6308.5	1537.2	797.8	674.6	631.8	608.4	579.9	544.8	520.2	516.3
52.5°	10411.7	6595.2	1449.0	727.8	627.9	603.2	582.5	552.6	524.1	498.1	495.5
55°	10922.8	6827.4	1293.4	661.6	586.4	578.6	557.8	520.2	481.3	459.2	456.6
57.5°	11413.2	7003.9	1098.8	607.1	548.7	551.3	520.2	486.5	450.1	426.8	424.2
60°	12065.7	7240.0	901.6	556.5	508.5	516.3	482.6	457.9	412.5	382.7	378.8
62.5°	13108.7	7607.1	716.1	494.3	461.8	464.4	450.1	420.3	365.8	330.8	328.2
65°	13936.4	7472.2	564.3	426.8	408.6	412.5	412.5	380.1	321.7	281.5	277.6
67.5°	13843.0	6398.0	450.1	360.6	358.0	360.6	369.7	342.5	285.4	253.0	247.8
70°	12752.0	5089.1	360.6	299.7	311.3	304.9	330.8	312.6	256.9	224.4	220.5
72.5°	10405.2	3666.0	275.0	247.8	238.7	249.1	298.4	281.5	214.0	177.7	173.8
75°	6080.2	1956.3	205.0	195.9	172.5	207.6	264.6	240.0	163.5	131.0	127.1
77.5°	1979.6	682.4	150.5	144.0	128.4	167.3	225.7	202.4	133.6	103.8	99.9
80°	530.6	206.3	102.5	94.7	83.0	124.5	179.0	160.9	96.0	67.5	66.2
82.5°	212.7	86.9	59.7	53.2	45.4	85.6	141.4	129.7	71.3	42.8	42.8
85°	68.8	28.5	22.1	16.9	20.8	53.2	84.3	88.2	50.6	22.1	16.9
87.5°	9.1	3.9	3.9	5.2	3.9	9.1	25.9	24.6	14.3	2.6	0.0
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)