

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: P969947

Luminaire Tested: **NAV-SB6A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-827-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20672.2 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 170.9
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



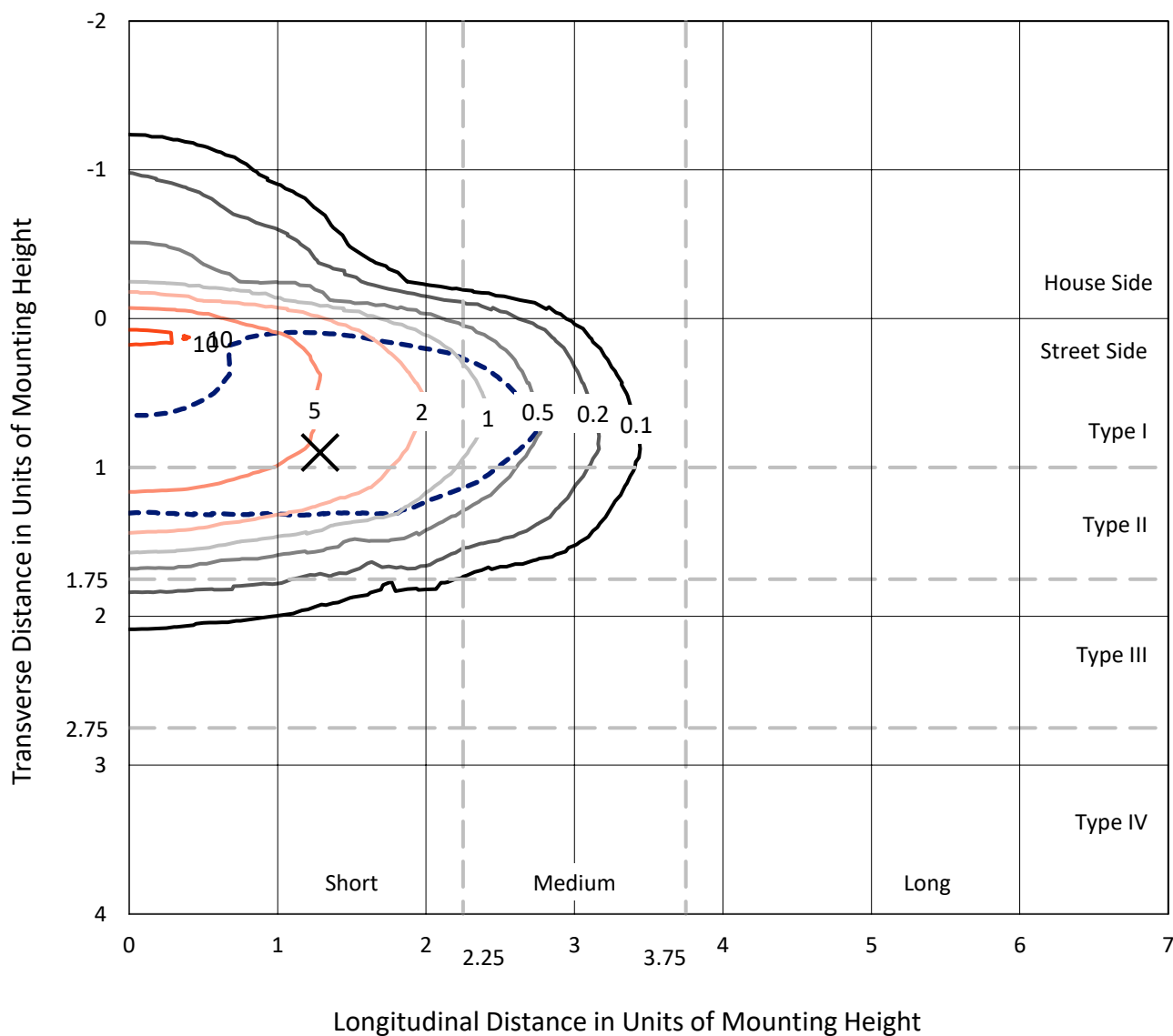
REPORT NUMBER: P969947

CATALOG NUMBER: NAV-SB6A-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

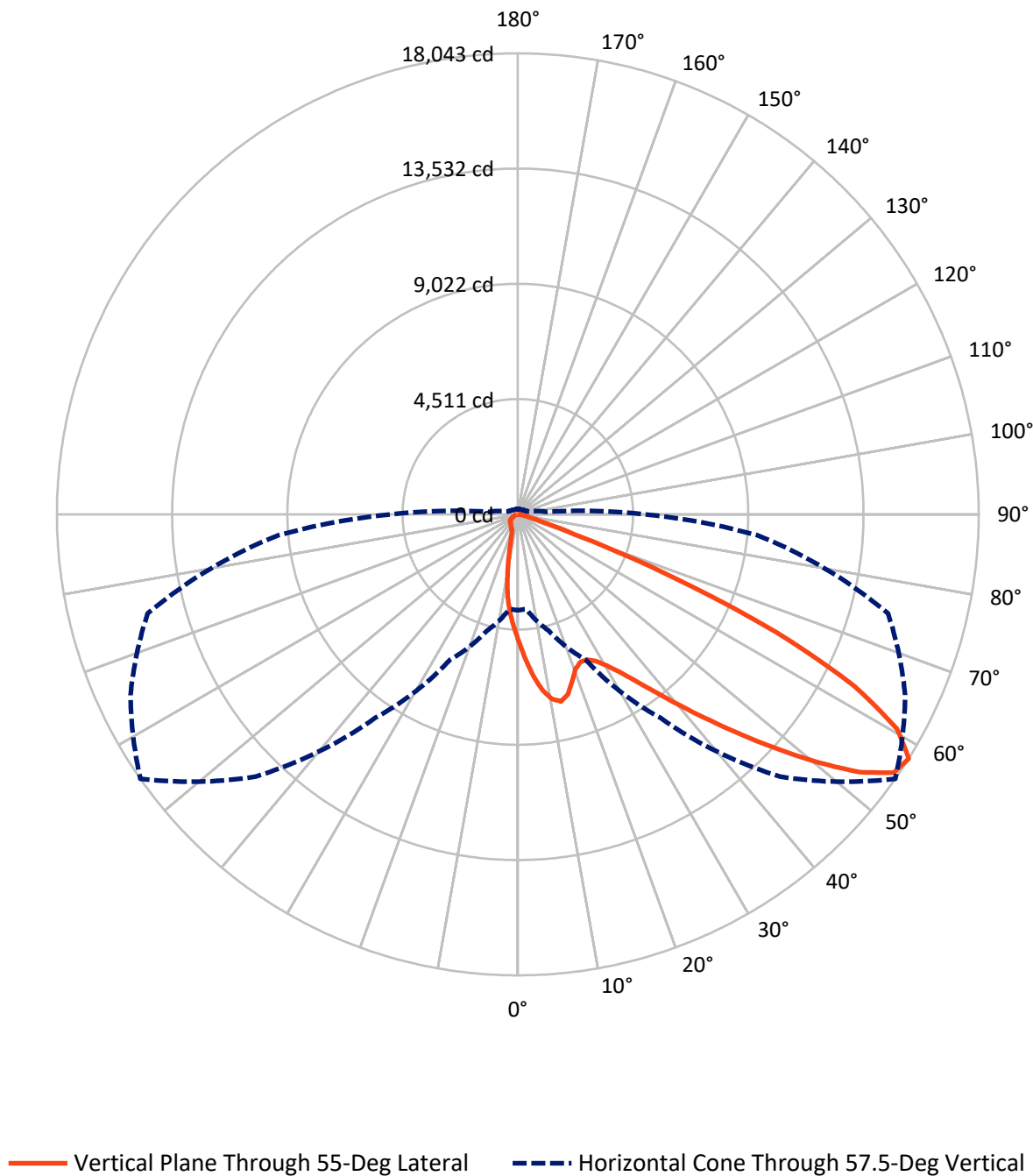


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc

Type II - Short - N/A

REPORT NUMBER: P969947
CATALOG NUMBER: NAV-SB6A-827-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P969947

CATALOG NUMBER: NAV-SB6A-827-U-AFL-HSS

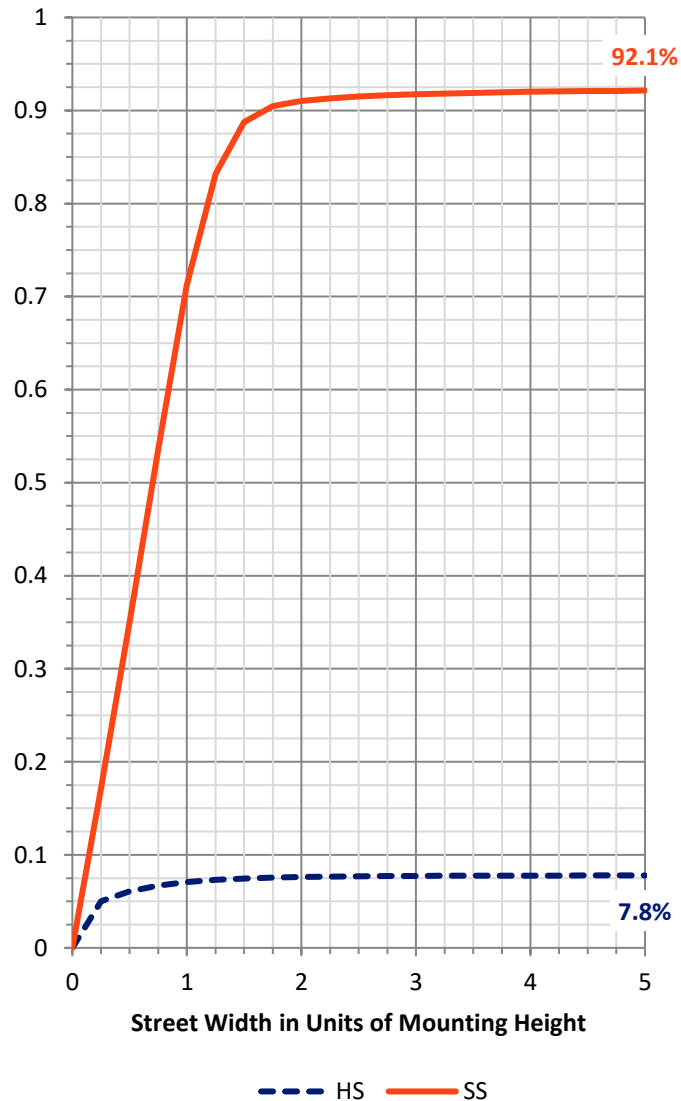
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1614.4	0.0	1614.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19057.8	0.0	19057.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	20672.2	0.0	20672.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	2.2
10°-20°	1119.6	5.4
20°-30°	1791.3	8.7
30°-40°	3031.9	14.7
40°-50°	4977.8	24.1
50°-60°	5470.9	26.5
60°-70°	3138.1	15.2
70°-80°	641.2	3.1
80°-90°	37.8	0.2
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°	20672.2	100.0
0°-180°	20672.2	100.0

Coefficient of Utilization



REPORT NUMBER: P969947

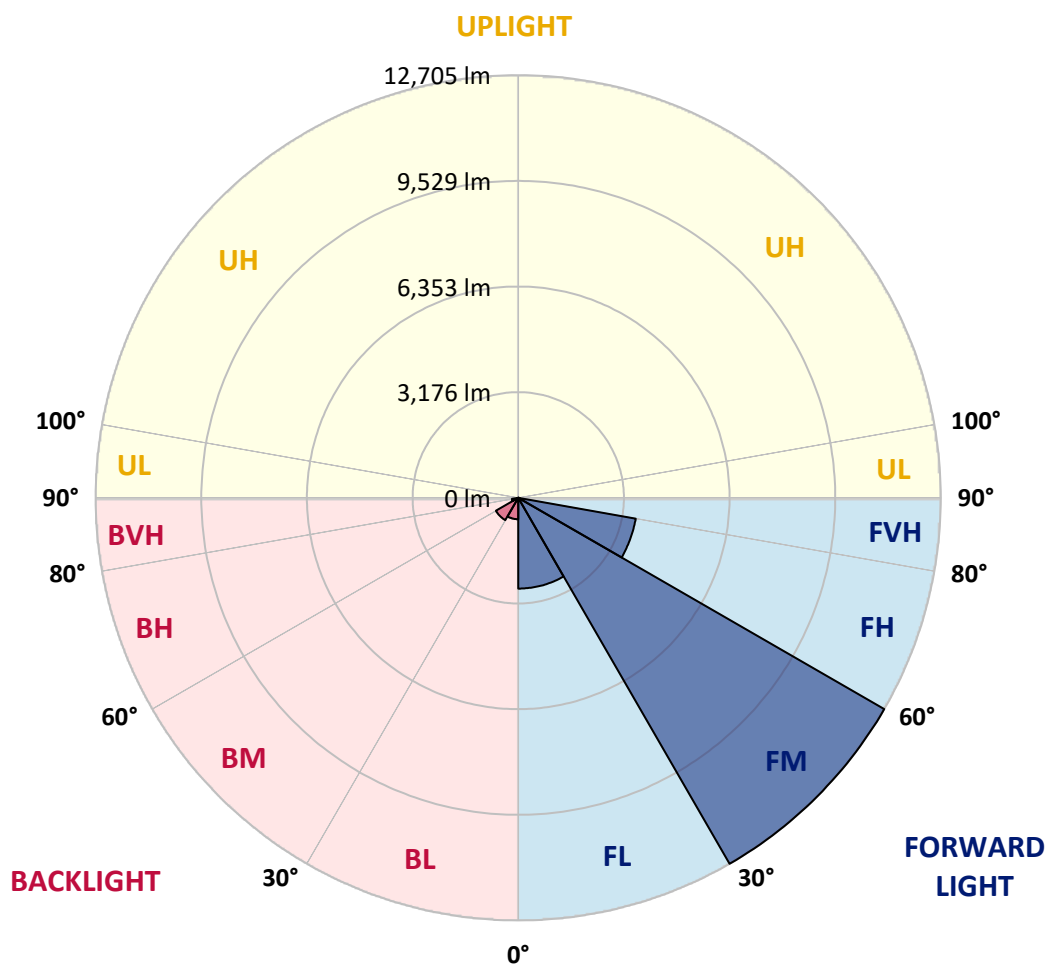
CATALOG NUMBER: NAV-SB6A-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2729.9	13.2			
FM	(30°-60°)	12705.3	61.5			
FH	(60°-80°)	3587.3	17.4			G2/5000
FVH	(80°-90°)	35.3	0.2			G1/100
BL	(0°-30°)	644.5	3.1	B2/1000		
BM	(30°-60°)	775.3	3.8	B1/1000		
BH	(60°-80°)	192.0	0.9	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
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 Short



REPORT NUMBER: P969947

CATALOG NUMBER: NAV-SB6A-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5
2.5°	6181.0	6103.3	6091.8	6076.4	5928.6	5817.7	5657.1	5481.2	5283.6	5082.2	4993.0
5°	7140.9	7079.7	7068.2	6996.8	6828.6	6639.8	6354.3	5993.6	5625.2	5191.8	5005.7
7.5°	7326.9	7315.4	7367.7	7365.1	7342.2	7193.0	6952.2	6522.6	5969.4	5326.9	5038.9
10°	6497.1	6526.4	6682.0	6818.3	7186.7	7400.8	7348.6	6994.2	6323.7	5481.2	5075.8
12.5°	5741.2	5706.8	5817.7	5972.0	6400.2	7037.5	7513.0	7388.1	6729.1	5655.8	5130.6
15°	5267.1	5253.0	5315.4	5386.9	5713.1	6355.6	7321.8	7708.1	7119.1	5862.3	5213.5
17.5°	5115.4	5103.9	5123.0	5140.8	5352.4	5849.6	6866.8	7904.4	7492.6	6098.1	5305.3
20°	5239.0	5223.7	5221.1	5207.1	5295.0	5634.1	6455.0	7918.3	7827.9	6312.3	5384.3
22.5°	5599.7	5581.8	5519.4	5463.4	5470.9	5663.4	6271.5	7778.2	8080.3	6512.4	5434.0
25°	6253.6	6224.3	6094.3	5905.6	5785.8	5867.4	6299.5	7593.3	8321.2	6669.2	5409.7
27.5°	7072.0	7033.8	6866.8	6586.3	6312.3	6212.8	6502.2	7465.9	8521.3	6789.0	5357.6
30°	7873.7	7824.0	7659.6	7441.6	7041.3	6727.8	6868.0	7522.0	8759.6	6913.9	5288.7
32.5°	8739.3	8692.1	8474.2	8203.9	7872.5	7450.5	7369.0	7796.0	9051.6	7088.6	5240.2
35°	9834.3	9760.3	9450.6	9082.2	8730.3	8303.3	8047.2	8268.9	9440.4	7355.0	5267.1
37.5°	11080.9	10981.4	10647.5	10138.9	9680.0	9202.0	8873.1	8919.0	10010.2	7711.9	5349.9
40°	12256.1	12165.6	11857.2	11377.9	10801.8	10221.7	9871.2	9769.3	10796.6	8146.6	5495.2
42.5°	12961.0	12879.4	12749.5	12546.8	12061.1	11469.6	11027.4	10806.8	11727.1	8666.6	5672.3
45°	13000.6	12929.1	13103.8	13339.7	13244.0	12850.1	12311.0	11906.9	12661.5	9154.8	5855.9
47.5°	12368.4	12319.9	12850.1	13673.6	14084.0	14249.8	13752.6	12915.2	13432.7	9505.3	5931.2
50°	10644.9	10627.1	11718.2	13230.0	14404.0	15476.1	15273.3	13853.4	14030.5	9686.4	5859.7
52.5°	9230.0	9165.0	9801.0	11810.0	13938.8	16121.0	16759.7	14773.6	14448.6	9720.8	5692.7
55°	7000.6	6943.2	7741.2	9434.0	12438.5	15891.6	17847.0	15723.3	14748.2	9632.8	5393.2
57.5°	3755.2	3719.5	4727.8	6279.2	9723.4	14514.9	18043.3	16727.8	15000.6	9399.6	4973.8
60°	1462.1	1455.7	1833.0	3046.5	5909.4	11808.7	17052.8	17330.7	15158.6	9112.8	4623.3
62.5°	884.7	903.7	964.9	1367.8	2610.6	7335.8	14769.8	16644.9	15264.4	8850.2	4333.9
65°	731.6	733.0	740.6	939.4	1250.5	3069.5	11119.1	14388.7	15003.1	8382.3	3923.5
67.5°	627.2	638.6	667.9	745.7	882.1	1346.0	6401.5	11145.8	13413.6	7293.8	3283.6
70°	494.6	509.8	546.8	613.2	680.7	842.6	2365.8	7416.2	10247.2	5497.7	2483.1
72.5°	416.9	415.5	434.7	498.4	540.5	592.8	910.1	4155.5	5955.4	2624.6	1228.8
75°	322.5	335.3	359.5	416.9	442.3	429.6	493.3	1518.1	2133.8	795.4	418.1
77.5°	252.4	262.6	284.2	340.3	365.8	304.6	284.2	543.0	685.8	285.6	188.7
80°	113.5	122.4	193.7	251.1	298.3	210.3	154.3	277.9	304.6	130.0	95.6
82.5°	20.4	34.4	113.5	132.5	152.9	136.4	80.3	144.0	149.1	52.3	33.1
85°	1.2	2.6	39.6	48.5	61.2	44.6	24.2	57.4	49.7	17.8	12.7
87.5°	0.0	0.0	0.0	1.2	1.2	6.4	7.7	10.1	7.7	6.4	5.1
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: P969947

CATALOG NUMBER: NAV-SB6A-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5
2.5°	4901.1	4720.2	4544.2	4400.2	4316.1	4173.3	4079.0	4063.7	4024.2	4058.6
5°	4806.8	4483.0	4155.5	3862.3	3621.4	3310.3	3078.4	2980.2	2894.8	2924.1
7.5°	4762.3	4251.1	3741.2	3240.2	2725.3	2228.1	1858.5	1704.3	1587.0	1603.5
10°	4702.3	4010.2	3210.9	2446.2	1756.5	1265.8	1010.9	916.5	864.3	865.5
12.5°	4656.5	3722.1	2595.3	1658.3	1069.5	808.1	729.1	706.2	690.8	692.2
15°	4633.5	3383.0	1987.3	1105.2	764.9	684.5	665.4	655.2	645.0	643.7
17.5°	4595.3	3005.7	1454.4	806.9	669.2	641.1	624.6	613.2	600.3	597.8
20°	4537.9	2577.5	1063.1	681.9	627.2	605.5	582.5	567.2	552.0	549.4
22.5°	4432.1	2124.9	817.0	631.0	596.6	572.4	544.3	526.4	511.2	508.6
25°	4235.8	1700.5	688.3	599.1	569.8	540.5	509.8	485.6	471.6	469.0
27.5°	3987.2	1335.9	624.6	569.8	535.4	508.6	474.2	451.2	438.5	435.9
30°	3694.1	1028.7	587.6	536.7	494.6	471.6	441.1	421.9	414.3	414.3
32.5°	3377.9	822.2	572.4	503.5	458.9	433.4	409.2	401.5	398.9	397.7
35°	3080.9	713.8	564.7	476.7	427.0	402.8	392.6	393.9	398.9	398.9
37.5°	2817.1	679.4	560.9	457.7	398.9	377.3	383.7	395.1	390.0	390.0
40°	2578.7	683.3	558.3	443.6	376.1	363.3	376.1	367.2	354.3	353.1
42.5°	2396.4	715.1	553.2	432.1	362.0	353.1	348.0	333.9	332.7	335.3
45°	2263.8	743.1	552.0	427.0	346.8	330.2	323.8	309.8	335.3	341.6
47.5°	2107.1	743.1	552.0	409.2	321.2	314.9	304.6	289.4	314.9	321.2
50°	1904.3	696.0	530.2	388.8	300.8	297.0	279.1	260.0	254.9	258.8
52.5°	1648.2	610.6	475.5	360.7	280.4	272.8	251.1	237.1	233.3	233.3
55°	1356.3	511.2	401.5	319.9	258.8	244.8	229.4	223.0	219.2	216.7
57.5°	1102.6	419.3	322.5	284.2	238.4	220.5	215.5	207.8	201.4	197.6
60°	905.1	330.2	266.4	252.4	218.0	201.4	200.1	189.9	173.3	170.8
62.5°	698.5	242.2	224.4	219.2	197.6	183.6	181.0	160.6	135.1	130.0
65°	493.3	188.7	181.0	192.5	175.9	163.2	156.8	126.2	99.4	95.6
67.5°	346.8	158.1	142.8	168.3	152.9	136.4	132.5	107.1	82.8	80.3
70°	247.3	128.7	117.3	144.0	122.4	119.8	112.1	89.3	67.5	65.0
72.5°	174.7	98.2	90.5	124.9	84.2	103.2	91.7	68.9	50.9	48.5
75°	128.7	70.1	63.8	72.7	61.2	77.8	65.0	45.9	31.9	30.5
77.5°	94.3	44.6	38.2	35.7	35.7	48.5	35.7	19.2	14.0	12.7
80°	66.3	20.4	17.8	15.3	14.0	11.5	5.1	2.6	1.2	1.2
82.5°	39.6	8.9	8.9	6.4	3.8	0.0	0.0	0.0	0.0	0.0
85°	8.9	3.8	3.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)