

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: P969978

Luminaire Tested: **NAV-SB6A-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969978
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-830-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 21361 lumens
Efficiency: N/A
Efficacy: 125.0 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

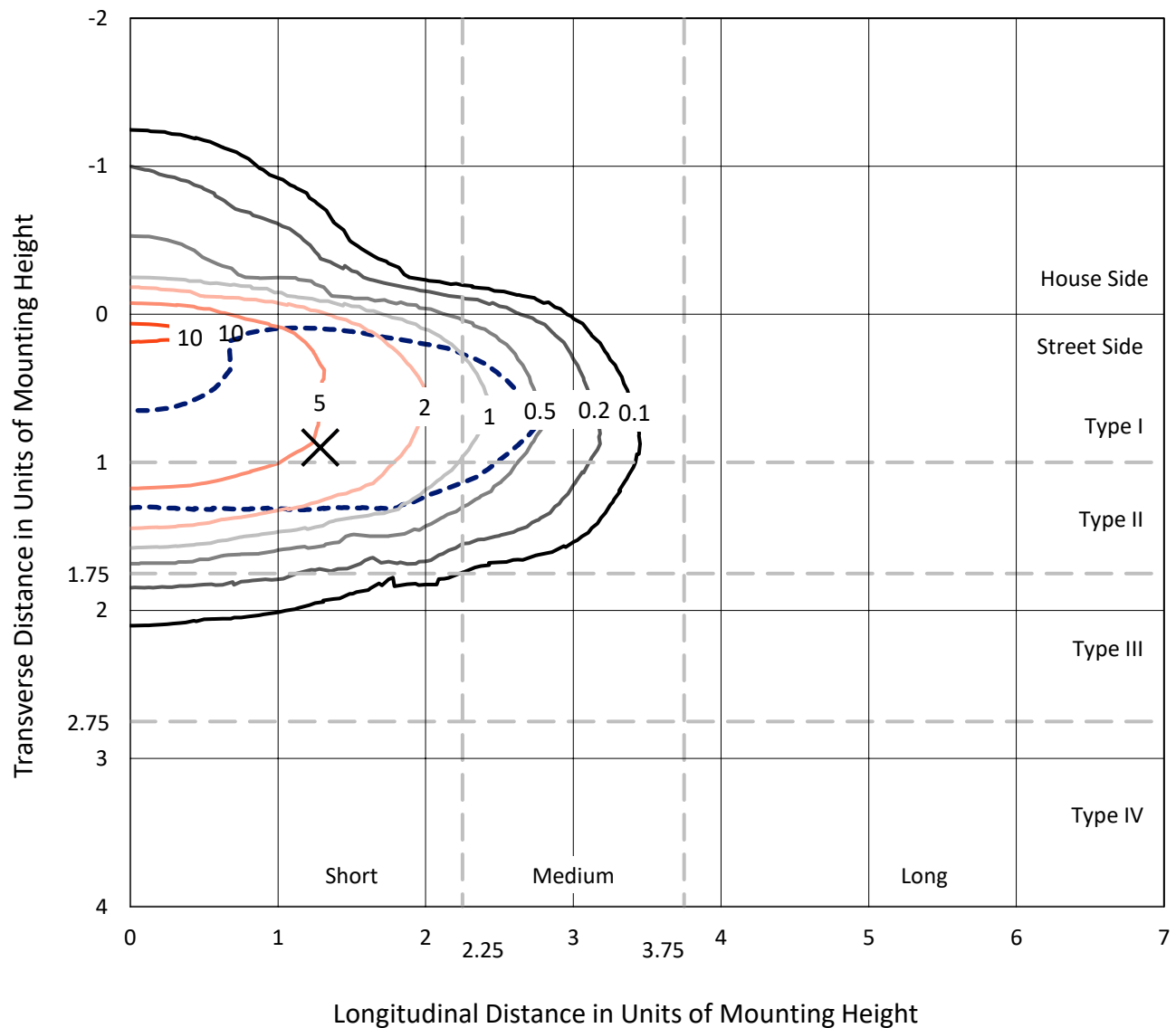


REPORT NUMBER: P969978

CATALOG NUMBER: NAV-SB6A-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

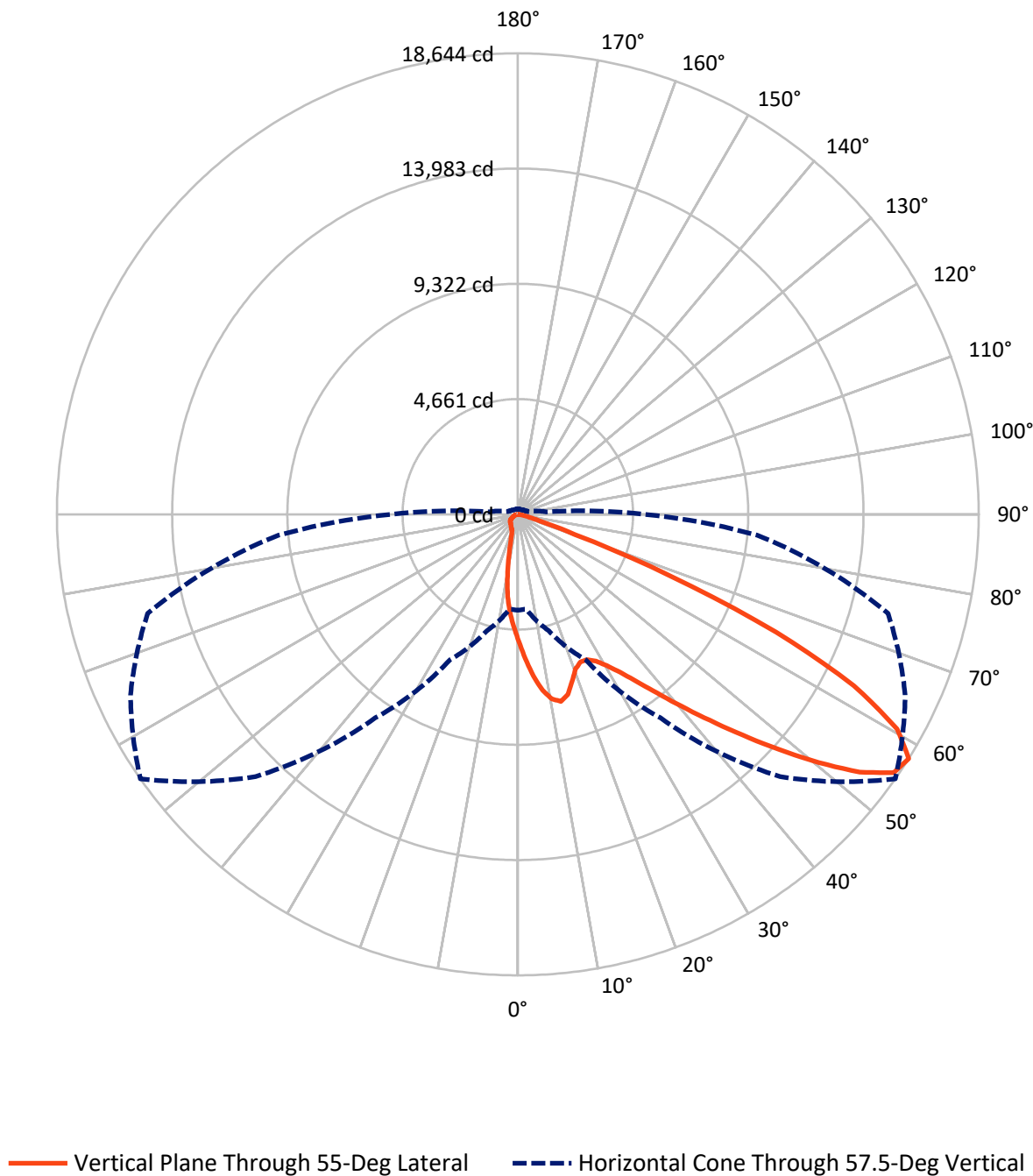
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
Type II - Short - N/A

REPORT NUMBER: P969978
CATALOG NUMBER: NAV-SB6A-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P969978

CATALOG NUMBER: NAV-SB6A-830-U-AFL-HSS

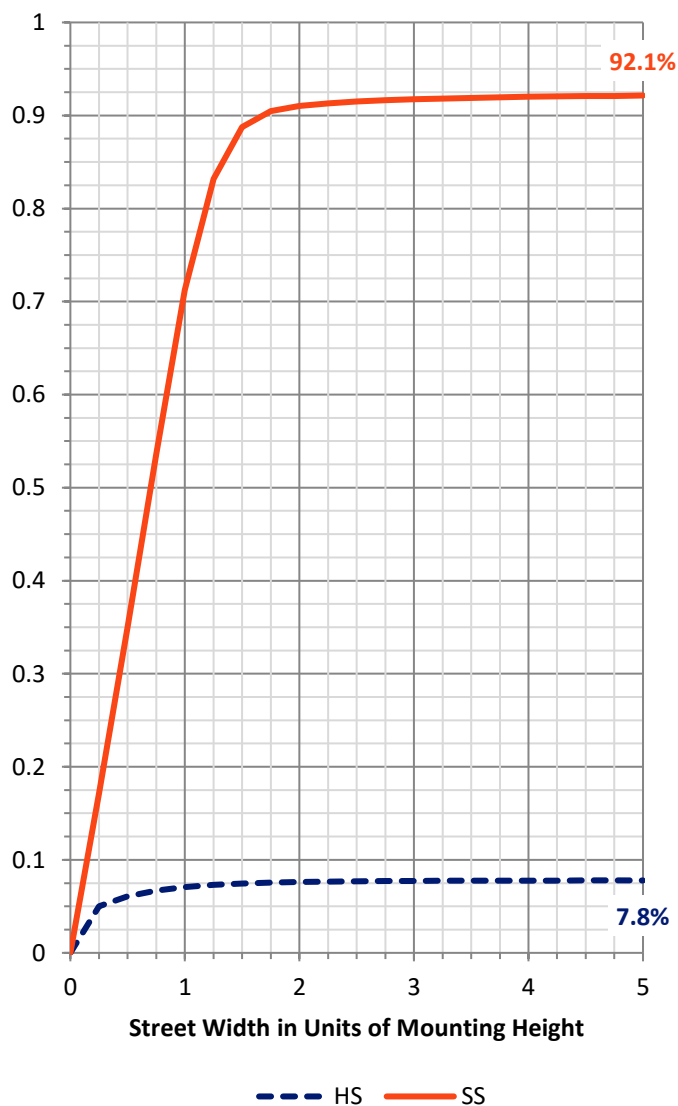
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1668.2	0.0	1668.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19692.8	0.0	19692.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	21361.0	0.0	21361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.9	2.2
10°-20°	1156.9	5.4
20°-30°	1851.0	8.7
30°-40°	3132.9	14.7
40°-50°	5143.6	24.1
50°-60°	5653.2	26.5
60°-70°	3242.7	15.2
70°-80°	662.6	3.1
80°-90°	39.1	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°	21361.0	100.0
0°-180°	21361.0	100.0

Coefficient of Utilization



REPORT NUMBER: P969978

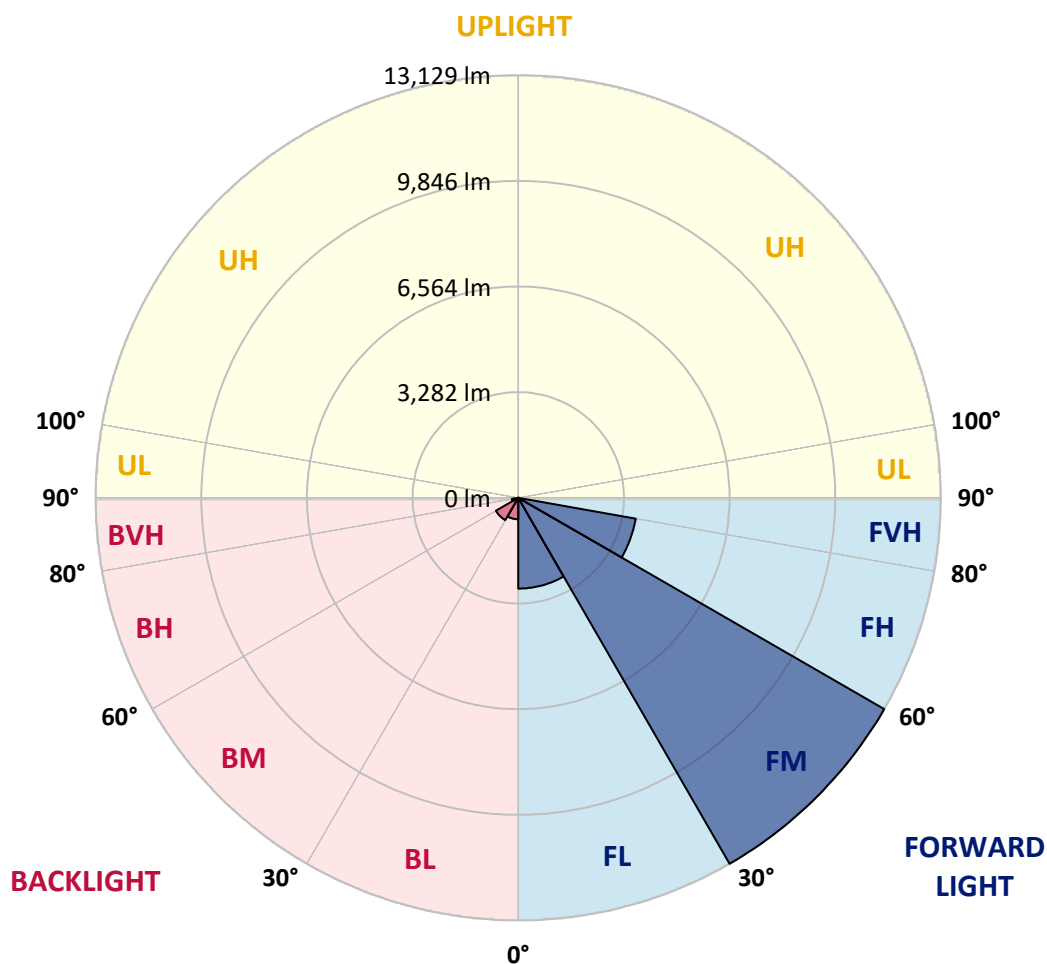
CATALOG NUMBER: NAV-SB6A-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2820.9	13.2			
FM	(30°-60°)	13128.6	61.5			
FH	(60°-80°)	3706.9	17.4			G2/5000
FVH	(80°-90°)	36.4	0.2			G1/100
BL	(0°-30°)	666.0	3.1	B2/1000		
BM	(30°-60°)	801.2	3.8	B1/1000		
BH	(60°-80°)	198.4	0.9	B1/500		G1/500
BVH	(80°-90°)	2.6	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: P969978

CATALOG NUMBER: NAV-SB6A-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4
2.5°	6386.9	6306.6	6294.7	6278.9	6126.1	6011.5	5845.6	5663.8	5459.7	5251.5	5159.3
5°	7378.8	7315.5	7303.6	7229.9	7056.0	6861.1	6566.0	6193.3	5812.7	5364.8	5172.5
7.5°	7571.1	7559.2	7613.2	7610.5	7586.8	7432.8	7183.8	6739.9	6168.2	5504.5	5206.8
10°	6713.5	6743.9	6904.6	7045.5	7426.1	7647.4	7593.4	7227.3	6534.5	5663.8	5244.9
12.5°	5932.5	5896.9	6011.5	6170.9	6613.5	7272.1	7763.4	7634.3	6953.3	5844.2	5301.6
15°	5442.5	5428.0	5492.6	5566.4	5903.5	6567.4	7565.8	7964.9	7356.3	6057.6	5387.2
17.5°	5285.8	5273.9	5293.7	5312.2	5530.8	6044.4	7095.6	8167.7	7742.3	6301.3	5482.0
20°	5413.5	5397.8	5395.1	5380.6	5471.4	5821.9	6670.1	8182.3	8088.7	6522.6	5563.7
22.5°	5786.3	5767.9	5703.3	5645.4	5653.3	5852.1	6480.5	8037.3	8349.5	6729.4	5615.1
25°	6462.0	6431.7	6297.4	6102.4	5978.6	6062.9	6509.5	7846.4	8598.4	6891.4	5590.0
27.5°	7307.6	7268.1	7095.6	6805.8	6522.6	6419.9	6718.9	7714.7	8805.3	7015.2	5536.0
30°	8136.1	8084.8	7914.8	7689.6	7276.0	6952.0	7096.9	7772.6	9051.6	7144.2	5464.9
32.5°	9030.5	8981.8	8756.5	8477.3	8134.8	7698.8	7614.5	8055.8	9353.2	7324.8	5414.9
35°	10162.0	10085.5	9765.5	9384.8	9021.2	8580.0	8315.2	8544.4	9754.9	7600.1	5442.5
37.5°	11450.1	11347.4	11002.2	10476.7	10002.6	9508.6	9168.7	9216.2	10343.7	7968.9	5528.1
40°	12664.5	12571.0	12252.2	11757.0	11161.6	10562.3	10200.1	10094.7	11156.4	8418.0	5678.3
42.5°	13393.0	13308.6	13174.2	12964.8	12463.0	11851.9	11394.8	11166.9	12117.9	8955.4	5861.4
45°	13433.8	13360.0	13540.5	13784.1	13685.3	13278.4	12721.2	12303.6	13083.4	9459.8	6051.1
47.5°	12780.4	12730.4	13278.4	14129.2	14553.4	14724.5	14210.9	13345.5	13880.2	9822.1	6128.8
50°	10999.6	10981.2	12108.6	13670.8	14883.9	15991.6	15782.2	14314.9	14498.0	10009.1	6055.0
52.5°	9537.6	9470.4	10127.7	12203.5	14403.2	16658.2	17318.1	15265.9	14930.0	10044.7	5882.5
55°	7233.8	7174.6	7999.1	9748.4	12852.9	16421.1	18441.6	16247.2	15239.6	9953.8	5572.9
57.5°	3880.3	3843.4	4885.4	6488.4	10047.4	14998.5	18644.4	17285.1	15500.4	9712.8	5139.6
60°	1510.7	1504.2	1894.1	3148.0	6106.3	12202.2	17621.0	17908.2	15663.7	9416.4	4777.3
62.5°	914.1	933.9	997.1	1413.3	2697.6	7580.3	15261.9	17199.5	15773.0	9145.0	4478.3
65°	756.0	757.4	765.3	970.8	1292.1	3171.8	11489.6	14868.1	15503.0	8661.7	4054.2
67.5°	648.0	659.9	690.2	770.5	911.4	1390.9	6614.8	11517.3	13860.5	7536.8	3393.1
70°	511.1	526.8	565.1	633.6	703.4	870.6	2444.6	7663.2	10588.7	5681.0	2565.9
72.5°	430.7	429.4	449.2	515.0	558.5	612.4	940.4	4293.9	6153.8	2712.0	1269.8
75°	333.2	346.4	371.5	430.7	457.0	443.9	509.7	1568.8	2205.0	821.9	432.0
77.5°	260.8	271.3	293.8	351.7	378.0	314.8	293.8	561.1	708.7	295.0	195.0
80°	117.3	126.5	200.2	259.5	308.2	217.3	159.4	287.1	314.8	134.4	98.8
82.5°	21.1	35.6	117.3	136.9	158.1	140.9	83.0	148.8	154.1	54.0	34.2
85°	1.3	2.7	40.8	50.0	63.2	46.1	25.0	59.2	51.4	18.4	13.2
87.5°	0.0	0.0	0.0	1.3	1.3	6.6	7.9	10.6	7.9	6.6	5.2
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: P969978

CATALOG NUMBER: NAV-SB6A-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4	5147.4
2.5°	5064.5	4877.5	4695.7	4546.8	4459.9	4312.4	4214.9	4199.1	4158.3	4193.9
5°	4967.0	4632.5	4293.9	3991.0	3742.1	3420.6	3181.0	3079.5	2991.3	3021.6
7.5°	4920.9	4392.7	3865.9	3348.3	2816.1	2302.4	1920.4	1761.1	1639.9	1657.0
10°	4859.0	4143.8	3317.9	2527.6	1815.1	1307.9	1044.5	947.0	893.1	894.3
12.5°	4811.6	3846.1	2681.7	1713.6	1105.1	835.1	753.4	729.7	713.9	715.2
15°	4787.9	3495.8	2053.5	1142.0	790.3	707.4	687.6	677.0	666.5	665.1
17.5°	4748.4	3105.9	1502.9	833.7	691.5	662.6	645.4	633.6	620.4	617.8
20°	4689.1	2663.3	1098.5	704.7	648.0	625.7	602.0	586.1	570.3	567.7
22.5°	4579.8	2195.8	844.3	652.0	616.4	591.4	562.4	544.0	528.2	525.5
25°	4377.0	1757.1	711.2	619.1	588.8	558.5	526.8	501.8	487.4	484.7
27.5°	4120.1	1380.4	645.4	588.8	553.2	525.5	489.9	466.3	453.2	450.5
30°	3817.1	1062.9	607.2	554.5	511.1	487.4	455.7	435.9	428.0	428.0
32.5°	3490.4	849.5	591.4	520.3	474.2	447.8	422.8	414.9	412.3	410.9
35°	3183.5	737.6	583.5	492.6	441.3	416.3	405.7	407.0	412.3	412.3
37.5°	2910.9	702.0	579.5	472.8	412.3	389.9	396.5	408.4	403.0	403.0
40°	2664.6	706.0	576.9	458.4	388.6	375.4	388.6	379.4	366.1	364.9
42.5°	2476.3	738.9	571.6	446.5	374.1	364.9	359.6	345.1	343.8	346.4
45°	2339.3	767.9	570.3	441.3	358.2	341.1	334.6	320.1	346.4	353.0
47.5°	2177.3	767.9	570.3	422.8	331.9	325.3	314.8	299.0	325.3	331.9
50°	1967.8	719.1	548.0	401.7	310.9	306.9	288.4	268.7	263.4	267.4
52.5°	1703.1	630.9	491.3	372.8	289.8	281.9	259.5	245.0	241.1	241.1
55°	1401.5	528.2	414.9	330.6	267.4	252.9	237.1	230.5	226.5	224.0
57.5°	1139.4	433.4	333.2	293.8	246.3	227.9	222.6	214.7	208.1	204.2
60°	935.2	341.1	275.3	260.8	225.2	208.1	206.8	196.3	179.2	176.5
62.5°	721.8	250.3	231.9	226.5	204.2	189.6	187.1	165.9	139.6	134.4
65°	509.7	195.0	187.1	198.8	181.7	168.6	162.1	130.4	102.7	98.8
67.5°	358.2	163.3	147.5	173.8	158.1	140.9	136.9	110.6	85.6	83.0
70°	255.5	133.0	121.2	148.8	126.5	123.8	115.9	92.2	69.8	67.1
72.5°	180.5	101.4	93.5	129.0	86.9	106.7	94.8	71.1	52.7	50.0
75°	133.0	72.5	65.9	75.0	63.2	80.4	67.1	47.5	32.9	31.6
77.5°	97.5	46.1	39.6	36.9	36.9	50.0	36.9	19.8	14.5	13.2
80°	68.5	21.1	18.4	15.8	14.5	11.9	5.2	2.7	1.3	1.3
82.5°	40.8	9.2	9.2	6.6	4.0	0.0	0.0	0.0	0.0	0.0
85°	9.2	4.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	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)