

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: P969995

Luminaire Tested: **NAV-SB6A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19147 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

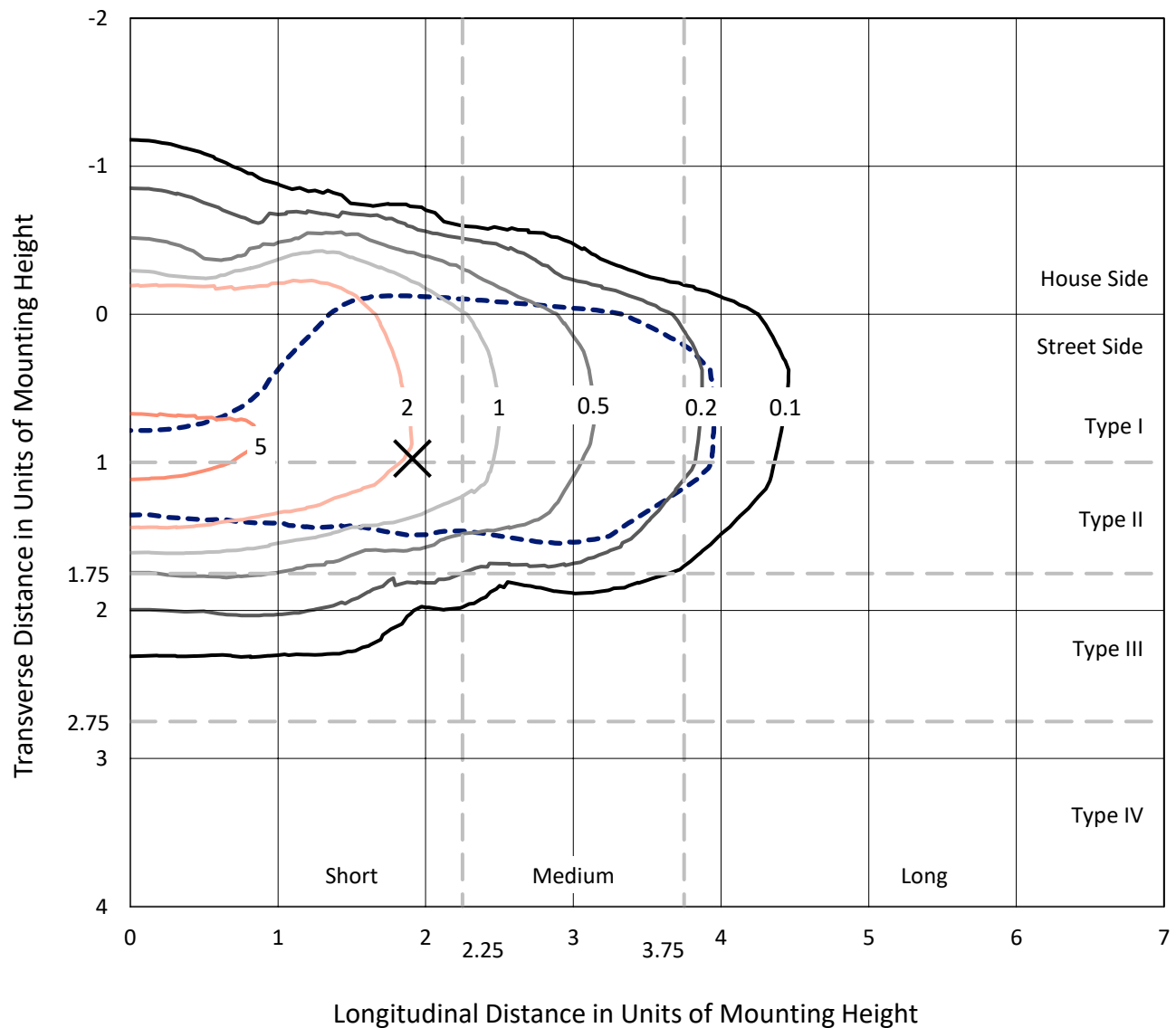


REPORT NUMBER: P969995

CATALOG NUMBER: NAV-SB6A-830-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

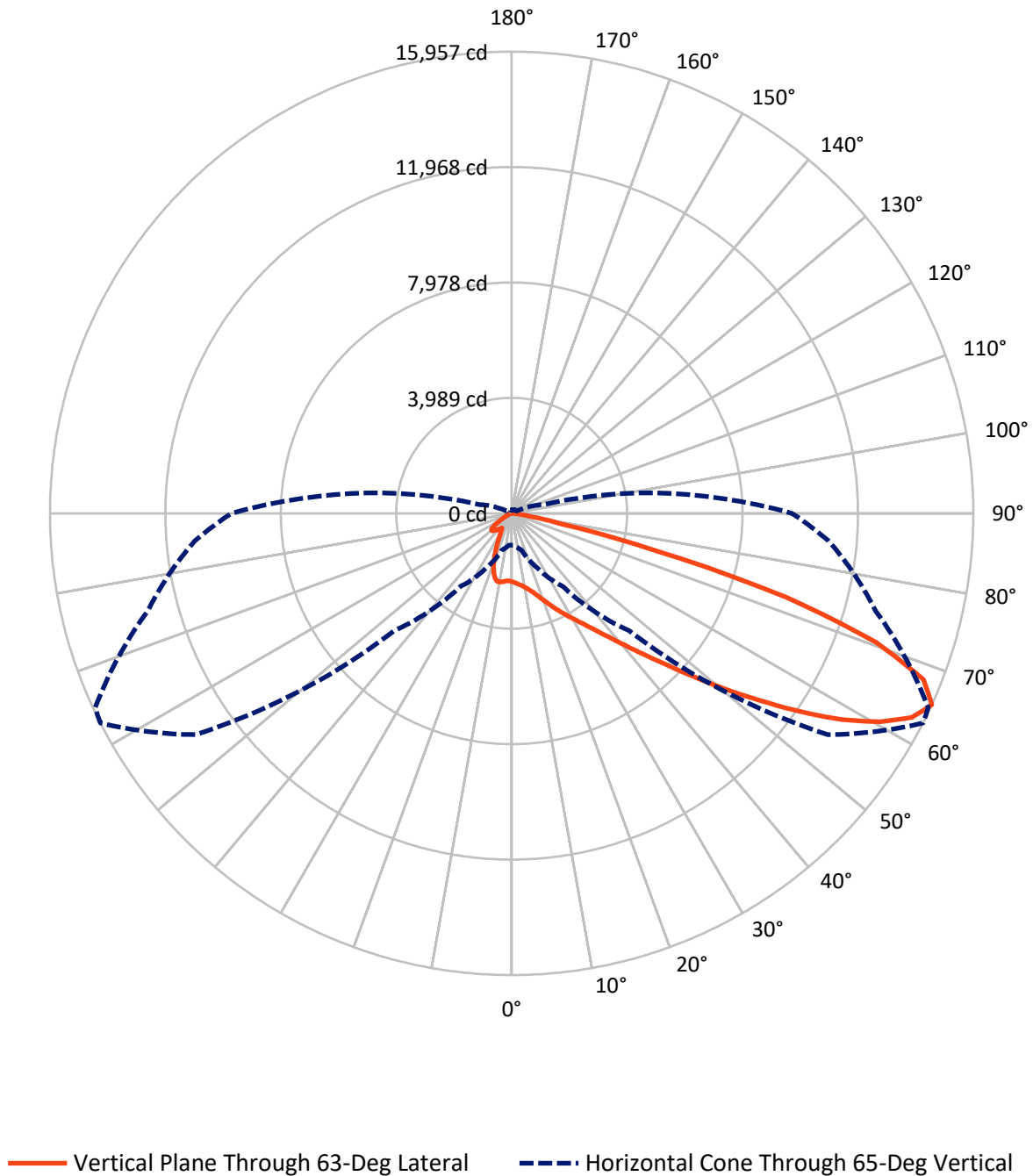
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Short - N/A

REPORT NUMBER: P969995
CATALOG NUMBER: NAV-SB6A-830-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P969995

CATALOG NUMBER: NAV-SB6A-830-U-T2U-HSS

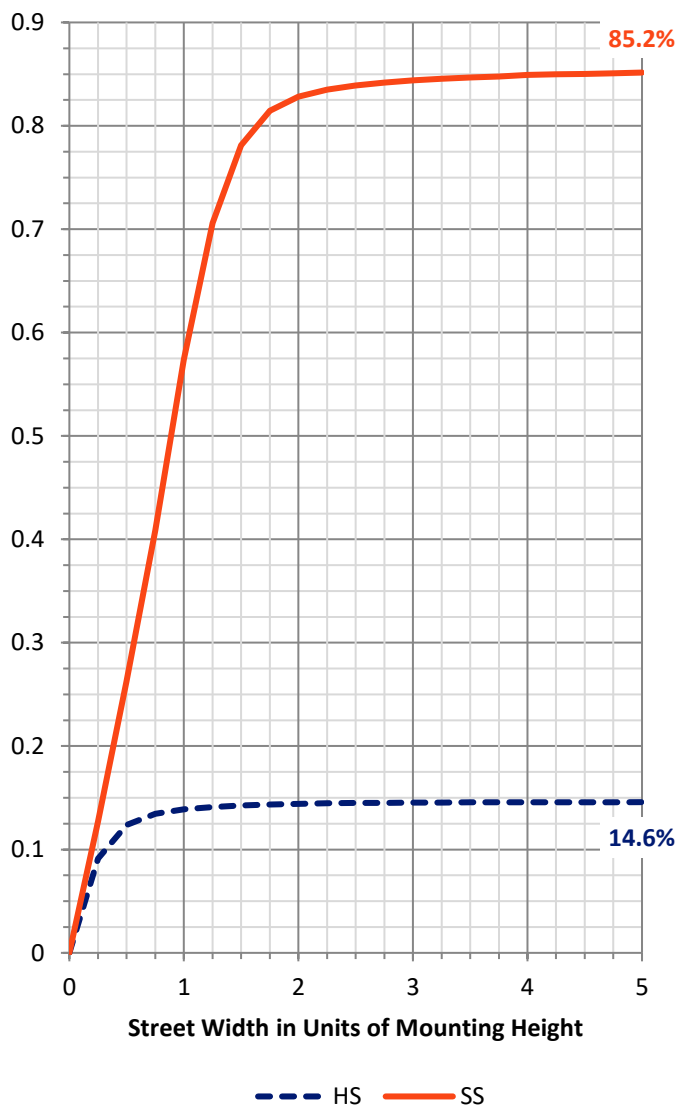
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2814.5	0.0	2814.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16332.5	0.0	16332.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	19147.0	0.0	19147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	1.2
10°-20°	617.8	3.2
20°-30°	1075.7	5.6
30°-40°	1938.8	10.1
40°-50°	3845.3	20.1
50°-60°	5237.9	27.4
60°-70°	4180.9	21.8
70°-80°	1891.9	9.9
80°-90°	136.0	0.7
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°	19147.0	100.0
0°-180°	19147.0	100.0

Coefficient of Utilization



REPORT NUMBER: P969995

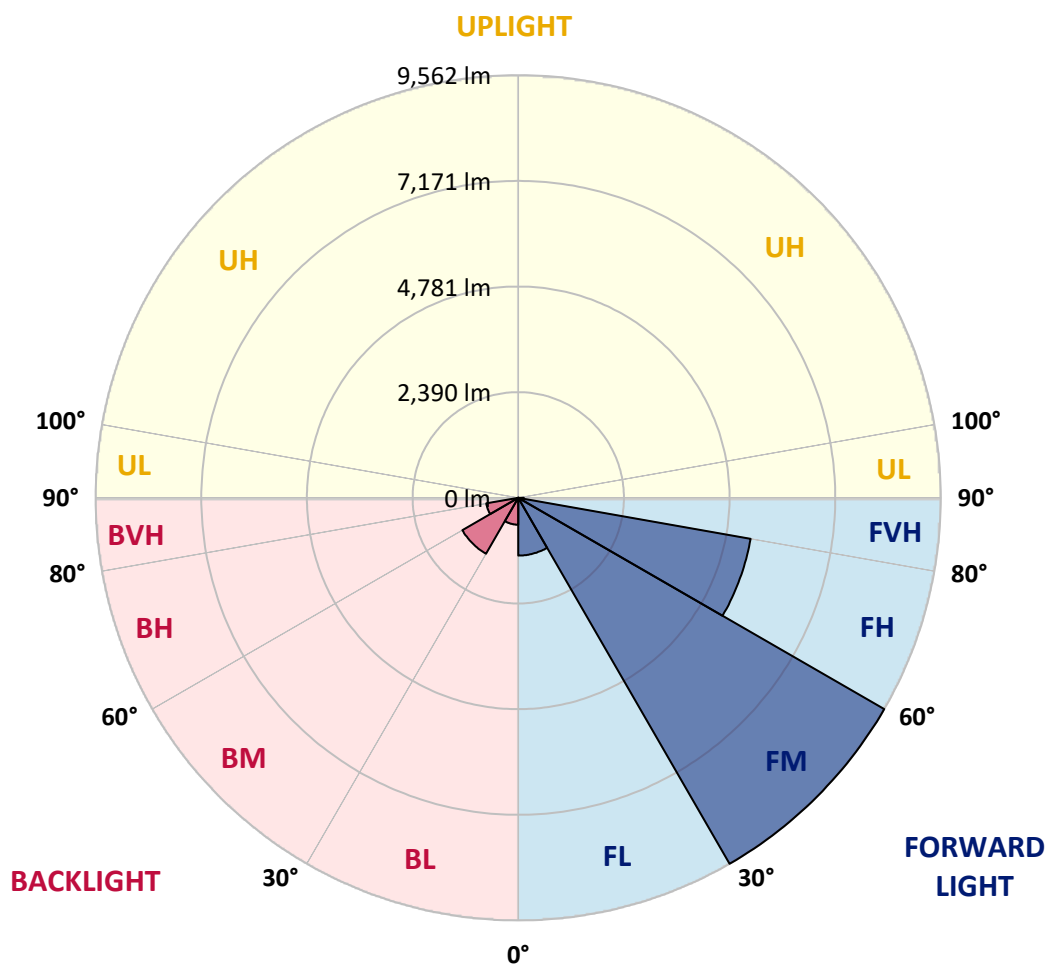
CATALOG NUMBER: NAV-SB6A-830-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1307.0	6.8			
FM	(30°-60°)	9561.5	49.9			
FH	(60°-80°)	5338.1	27.9			G3/7500
FVH	(80°-90°)	125.9	0.7			G2/225
BL	(0°-30°)	609.1	3.2	B2/1000		
BM	(30°-60°)	1460.5	7.6	B2/2500		
BH	(60°-80°)	734.7	3.8	B2/1000		G2/1000
BVH	(80°-90°)	10.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



REPORT NUMBER: P969995

CATALOG NUMBER: NAV-SB6A-830-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1
2.5°	2418.4	2411.8	2421.0	2417.2	2414.5	2409.2	2406.6	2403.9	2398.7	2394.7	2378.9
5°	2425.0	2421.0	2430.3	2438.2	2446.1	2454.0	2458.0	2463.2	2458.0	2447.4	2431.6
7.5°	2369.7	2367.0	2386.8	2410.5	2446.1	2476.4	2509.3	2527.8	2529.1	2525.1	2508.0
10°	2365.7	2359.1	2378.9	2407.9	2454.0	2508.0	2566.0	2605.4	2610.8	2627.9	2609.4
12.5°	2427.6	2421.0	2448.7	2480.3	2527.8	2584.4	2655.6	2710.8	2718.7	2742.5	2729.3
15°	2531.8	2522.5	2554.1	2594.9	2655.6	2720.0	2795.2	2845.2	2851.8	2880.8	2857.1
17.5°	2652.9	2643.7	2680.6	2724.0	2789.8	2878.1	2965.1	3020.4	3028.3	3046.7	3003.2
20°	2808.3	2796.5	2825.4	2865.0	2934.8	3040.1	3144.2	3223.2	3221.9	3221.9	3150.8
22.5°	2988.8	2970.3	2995.4	3027.0	3092.8	3220.7	3358.9	3452.4	3452.4	3415.6	3298.3
25°	3182.4	3164.0	3191.6	3220.7	3278.6	3423.5	3585.4	3701.4	3706.7	3643.5	3456.4
27.5°	3424.8	3401.1	3422.2	3456.4	3490.6	3638.1	3830.5	3964.8	3967.5	3870.0	3606.6
30°	3891.1	3823.9	3758.1	3721.2	3736.9	3883.2	4088.6	4237.6	4250.7	4116.3	3769.8
32.5°	4744.6	4731.5	4499.6	4196.7	4038.6	4146.6	4377.2	4556.3	4564.2	4391.6	3981.9
35°	6071.1	6055.3	5682.5	5105.5	4590.6	4499.6	4727.5	4939.6	4934.3	4739.4	4257.2
37.5°	7654.4	7639.9	7148.6	6376.7	5542.9	5033.2	5179.3	5402.0	5434.9	5179.3	4612.9
40°	9007.2	8953.2	8642.3	7898.0	6807.4	5918.2	5822.1	5969.7	6003.9	5700.9	5064.7
42.5°	10032.0	9985.9	9827.8	9362.9	8338.1	7227.6	6579.6	6636.2	6674.4	6310.8	5583.7
45°	10562.8	10552.3	10615.5	10572.1	9897.6	8834.6	7662.3	7426.5	7441.0	6986.6	6172.5
47.5°	10637.9	10632.6	10921.1	11329.4	11238.6	10647.1	9052.0	8411.8	8360.4	7749.2	6812.7
50°	10195.4	10184.8	10738.0	11503.4	12134.3	12169.8	10630.0	9522.2	9409.0	8538.2	7480.6
52.5°	8781.9	8779.3	9688.2	10962.0	12449.1	13502.8	12189.6	10742.0	10552.3	9373.4	8186.6
55°	6757.4	6806.1	7848.0	9353.6	11874.8	14144.4	13589.9	12096.1	11804.9	10213.7	8837.2
57.5°	4786.8	4857.9	5888.0	7228.9	10093.9	13765.0	14536.9	13452.8	13139.3	11051.6	9497.2
60°	2571.2	2634.5	3665.8	5266.2	7509.5	12350.3	15036.1	14630.4	14334.0	11847.2	10092.6
62.5°	1532.0	1553.0	1979.8	3399.7	5079.2	9435.3	14824.1	15527.4	15283.8	12514.9	10610.3
65°	1099.9	1103.8	1318.6	2075.9	3083.6	5732.5	13336.9	15956.9	15881.8	13018.1	10993.5
67.5°	926.0	923.4	1012.9	1379.1	2100.9	2871.5	10221.7	15349.6	15668.4	13336.9	11210.9
70°	794.3	798.3	903.6	1010.3	1579.3	1625.4	5081.8	13364.6	14044.2	13421.2	11197.7
72.5°	591.4	604.6	702.1	920.8	1192.1	1118.3	1754.5	9909.5	11138.5	12645.3	10616.8
75°	417.6	424.1	493.9	774.5	889.1	814.1	895.7	5122.6	6698.1	9694.8	8689.7
77.5°	321.4	333.2	374.1	541.4	876.0	571.6	548.0	1772.9	2724.0	5856.3	5957.8
80°	173.8	195.0	270.0	391.2	615.1	404.4	271.3	706.0	923.4	2738.5	2297.2
82.5°	89.6	100.1	188.4	281.9	350.3	353.0	134.4	293.8	380.7	845.6	314.8
85°	35.6	43.5	126.5	155.4	180.5	173.8	60.6	118.6	137.0	234.4	96.1
87.5°	7.9	13.2	46.1	35.6	34.2	36.9	14.5	27.7	26.3	27.7	17.1
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: P969995

CATALOG NUMBER: NAV-SB6A-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1
2.5°	2377.6	2372.4	2357.8	2342.0	2323.6	2313.0	2306.5	2305.1	2295.9	2289.3	2295.9
5°	2417.2	2411.8	2384.1	2351.2	2315.7	2288.0	2261.7	2238.0	2203.8	2197.1	2194.5
7.5°	2496.2	2481.6	2436.8	2392.0	2324.9	2244.5	2147.1	2035.1	1935.0	1904.8	1890.2
10°	2593.7	2573.9	2517.2	2438.2	2289.3	2070.7	1834.9	1616.2	1442.4	1393.6	1375.1
12.5°	2704.3	2687.1	2612.0	2465.8	2140.5	1744.0	1383.1	1111.7	943.1	901.0	889.1
15°	2836.0	2811.0	2706.9	2423.7	1874.4	1325.1	949.8	789.0	728.5	720.5	712.6
17.5°	2975.6	2934.8	2791.2	2272.2	1516.1	941.8	733.7	687.6	661.2	653.3	649.4
20°	3103.4	3050.7	2841.3	2043.0	1132.8	733.7	657.3	627.0	603.3	594.1	588.8
22.5°	3231.1	3156.1	2841.3	1730.8	849.6	650.7	603.3	575.6	548.0	536.1	529.5
25°	3364.2	3264.1	2791.2	1383.1	683.7	596.7	552.0	521.6	497.9	483.4	478.2
27.5°	3493.3	3354.9	2676.6	1053.8	608.5	549.3	504.5	475.5	453.2	442.6	442.6
30°	3615.8	3444.5	2515.9	799.6	559.9	503.2	461.0	436.0	413.6	403.0	404.4
32.5°	3781.7	3557.8	2344.7	656.0	517.6	459.7	421.5	397.8	378.0	370.1	370.1
35°	4012.3	3725.2	2197.1	644.1	482.1	424.1	385.9	363.6	343.8	337.2	337.2
37.5°	4338.9	3995.1	2119.4	723.1	453.2	392.6	357.0	333.2	314.8	309.5	308.2
40°	4742.1	4361.4	2161.5	802.2	433.4	364.9	330.7	306.9	291.1	284.5	283.2
42.5°	5220.1	4813.1	2394.7	862.7	420.1	341.1	305.6	279.2	268.8	266.1	266.1
45°	5769.4	5309.7	2751.7	927.3	399.1	318.8	280.5	260.8	252.9	251.6	250.3
47.5°	6393.8	5855.1	3165.3	1007.7	378.0	297.7	260.8	247.6	241.1	238.4	238.4
50°	7012.9	6404.3	3590.8	1052.5	360.9	278.0	245.0	234.4	229.2	227.9	227.9
52.5°	7661.0	6969.5	3934.6	1010.3	346.4	262.1	231.9	224.0	218.6	217.3	217.3
55°	8278.7	7426.5	3993.8	857.5	317.4	246.3	217.3	213.4	206.8	206.8	205.5
57.5°	8810.9	7655.7	3575.0	629.7	288.4	222.6	202.8	198.8	193.6	192.3	191.0
60°	9299.6	7589.8	2759.6	424.1	256.9	198.8	184.4	181.7	176.5	169.9	168.6
62.5°	9574.9	7300.0	1887.5	276.6	225.3	173.8	163.4	162.1	150.2	137.0	134.4
65°	9679.0	6704.6	1177.6	201.5	188.4	148.8	140.9	138.3	121.2	106.7	105.4
67.5°	9588.1	5724.6	594.1	159.4	148.8	123.8	115.9	115.9	104.0	90.9	89.6
70°	9224.5	4291.5	250.3	127.8	114.6	94.8	94.8	100.1	88.3	73.8	72.5
72.5°	8435.5	2887.3	133.0	97.5	85.6	67.1	77.7	81.7	69.8	55.4	55.4
75°	6706.0	1761.2	92.2	72.5	54.0	47.5	59.2	61.9	47.5	36.9	35.6
77.5°	4586.6	1011.7	61.9	46.1	34.2	27.7	40.8	38.2	25.0	17.1	18.4
80°	2014.0	421.5	35.6	21.1	13.2	10.6	14.5	10.6	7.9	5.2	5.2
82.5°	235.7	98.8	13.2	7.9	5.2	2.7	1.3	0.0	0.0	0.0	0.0
85°	48.7	11.9	6.6	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	2.7	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	0.0

(END OF REPORT)