

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: P967878

Luminaire Tested: **NAV-SB5A-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

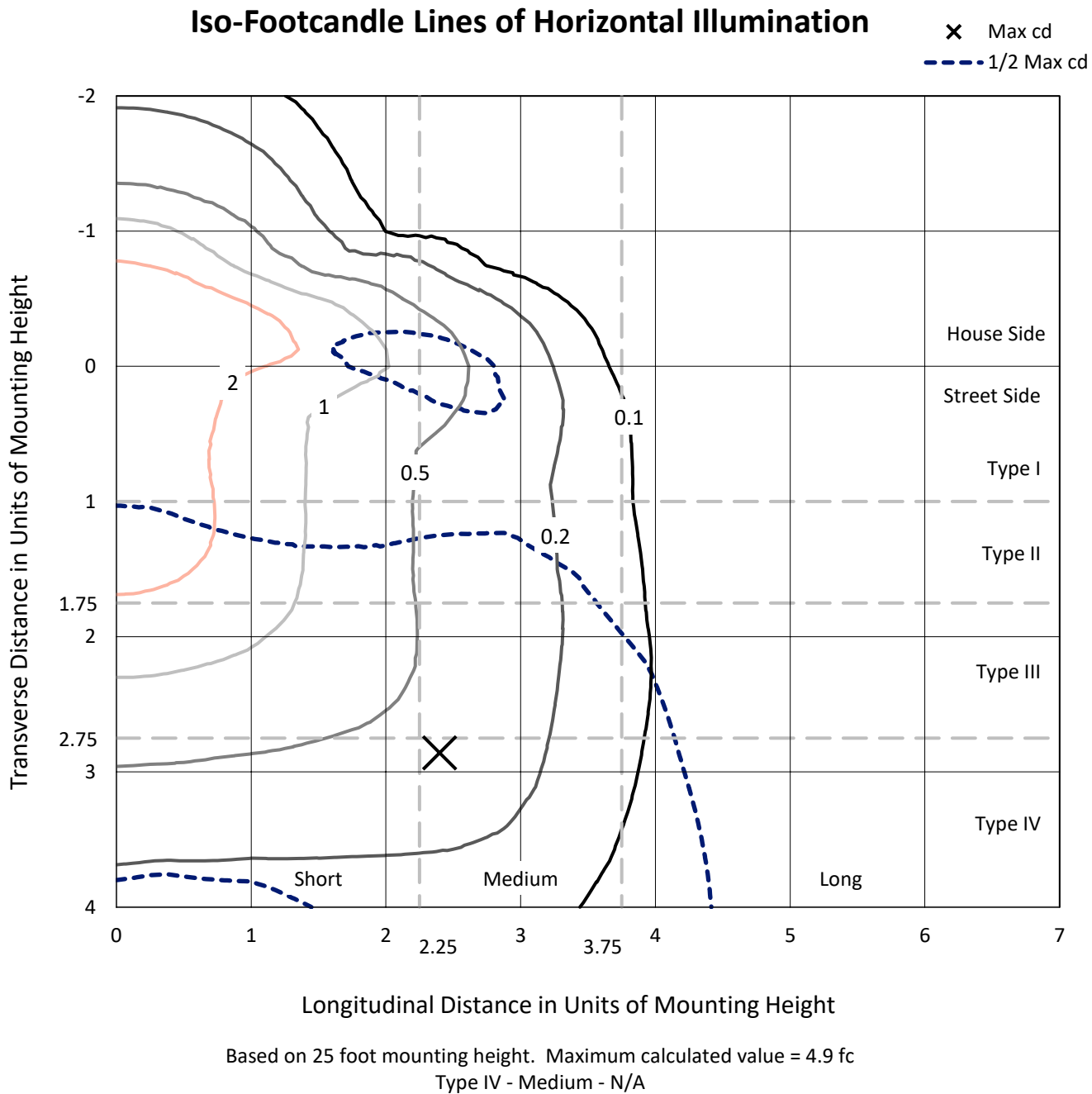
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20687.6 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 141.7
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

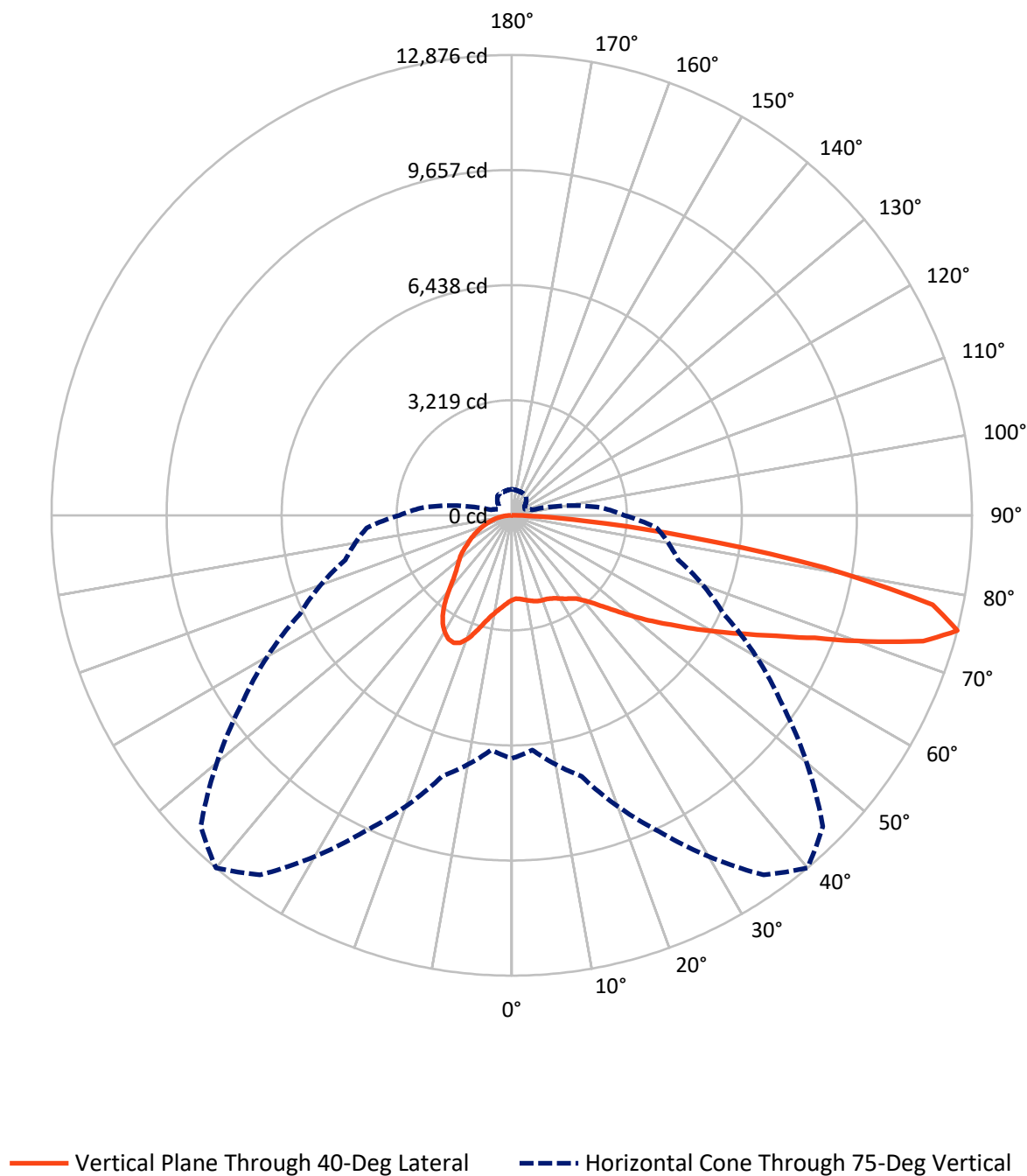


REPORT NUMBER: P967878
CATALOG NUMBER: NAV-SB5A-830-U-SL4



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Luminous Intensity Polar Plot



REPORT NUMBER: P967878

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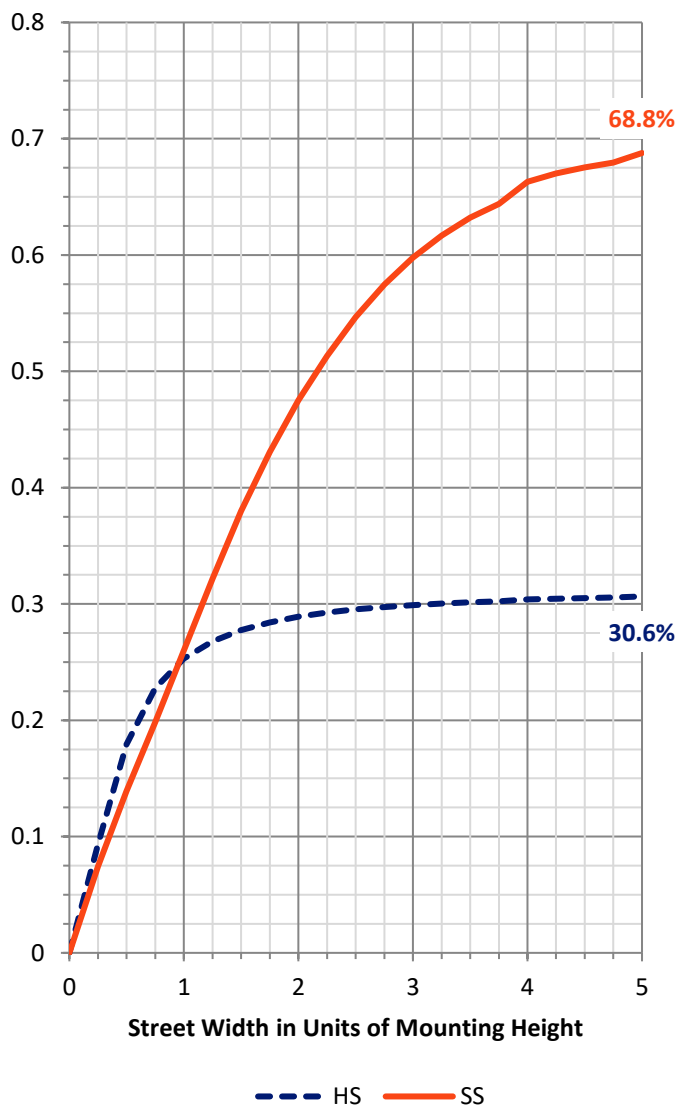
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6409.7	0.0	6409.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14277.9	0.0	14277.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	20687.6	0.0	20687.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	1.1
10°-20°	792.8	3.8
20°-30°	1447.6	7.0
30°-40°	2053.1	9.9
40°-50°	2772.3	13.4
50°-60°	3729.5	18.0
60°-70°	4733.7	22.9
70°-80°	4296.1	20.8
80°-90°	626.2	3.0
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°	20687.6	100.0
0°-180°	20687.6	100.0

Coefficient of Utilization



REPORT NUMBER: P967878

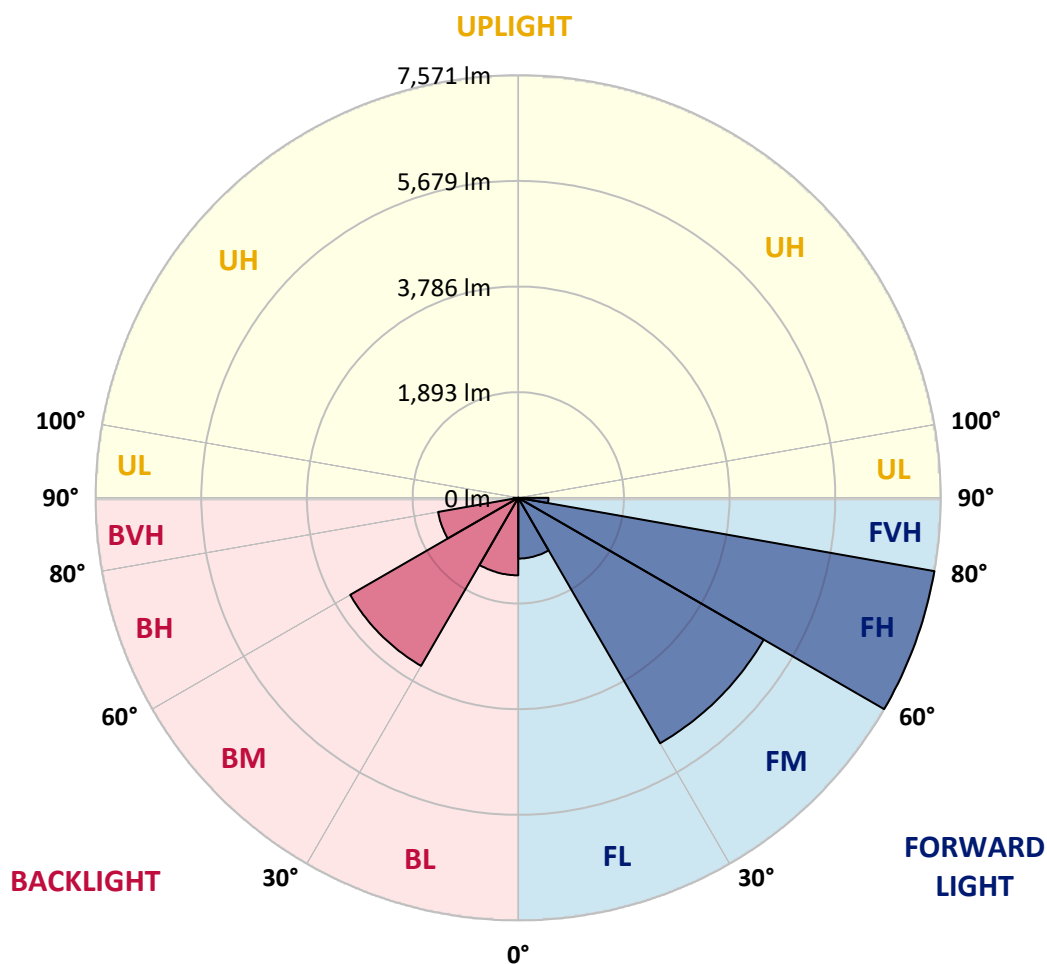
CATALOG NUMBER: NAV-SB5A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.2	5.3			
FM	(30°-60°)	5078.3	24.5			
FH	(60°-80°)	7571.3	36.6			G4/12000
FVH	(80°-90°)	540.0	2.6			G4/750
BL	(0°-30°)	1388.4	6.7	B3/2500		
BM	(30°-60°)	3476.7	16.8	B3/5000		
BH	(60°-80°)	1458.4	7.0	B3/2500		G3/2500
BVH	(80°-90°)	86.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



REPORT NUMBER: P967878

CATALOG NUMBER: NAV-SB5A-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7
2.5°	2329.4	2342.6	2339.4	2335.0	2335.0	2336.1	2335.0	2342.6	2350.3	2358.0	2370.0
5°	2353.6	2366.7	2360.2	2354.6	2350.3	2349.2	2345.9	2344.8	2349.2	2359.0	2375.5
7.5°	2400.8	2414.0	2404.0	2394.2	2385.4	2381.0	2376.7	2370.0	2366.7	2372.3	2395.3
10°	2453.4	2466.6	2454.6	2436.9	2422.7	2417.3	2412.8	2406.3	2401.9	2405.2	2430.4
12.5°	2506.1	2519.2	2502.8	2478.7	2460.0	2456.7	2451.3	2449.0	2447.9	2446.9	2472.1
15°	2555.4	2566.5	2545.6	2517.1	2497.3	2491.9	2486.3	2489.6	2495.2	2501.7	2530.2
17.5°	2593.9	2604.8	2574.1	2536.8	2518.1	2516.0	2512.7	2523.7	2539.0	2555.4	2590.6
20°	2629.0	2640.0	2600.4	2550.0	2528.1	2528.1	2529.2	2552.1	2574.1	2598.3	2646.5
22.5°	2678.3	2687.1	2638.9	2569.8	2537.9	2540.2	2548.9	2571.9	2599.4	2632.3	2699.2
25°	2751.9	2758.5	2699.2	2607.1	2570.8	2577.5	2585.0	2596.1	2622.4	2660.8	2750.8
27.5°	2870.4	2875.8	2797.9	2672.9	2618.1	2629.0	2640.0	2632.3	2644.4	2677.3	2792.5
30°	3037.2	3040.5	2941.7	2776.0	2698.1	2703.6	2705.8	2674.0	2651.0	2677.3	2822.1
32.5°	3234.7	3233.6	3116.2	2901.1	2789.2	2783.7	2765.0	2702.5	2648.7	2671.8	2848.5
35°	3540.8	3528.8	3377.3	3076.6	2892.3	2858.3	2814.4	2734.3	2659.7	2666.3	2871.4
37.5°	4047.7	4010.4	3800.8	3364.2	3045.9	2959.3	2894.5	2785.8	2683.9	2664.1	2898.9
40°	4619.4	4572.2	4341.8	3758.1	3276.4	3137.0	3032.8	2859.4	2723.3	2674.0	2939.5
42.5°	5297.5	5230.6	4982.5	4222.2	3568.2	3366.3	3209.5	2952.7	2781.5	2705.8	2994.3
45°	6130.3	6041.5	5690.3	4745.5	3935.8	3666.9	3457.4	3094.3	2870.4	2767.2	3076.6
47.5°	6971.8	6993.8	6494.6	5344.7	4376.9	4037.9	3767.9	3307.1	2999.9	2866.0	3209.5
50°	7866.2	7881.5	7294.4	6008.4	4877.3	4457.0	4116.8	3545.2	3179.8	3006.4	3408.0
52.5°	8564.0	8566.1	8020.8	6703.1	5398.5	4917.8	4493.2	3817.3	3388.2	3193.0	3672.5
55°	9000.6	8995.2	8529.9	7360.3	5997.5	5401.7	4910.2	4126.8	3642.8	3412.4	4004.9
57.5°	9317.8	9301.4	8881.1	7925.4	6636.2	5973.4	5382.0	4477.8	3943.5	3673.6	4442.8
60°	9438.5	9428.6	9119.2	8413.6	7307.6	6605.4	5926.2	4870.7	4284.7	3981.9	5005.6
62.5°	9484.5	9503.2	9352.9	8886.5	8026.4	7305.4	6524.2	5340.2	4668.8	4330.8	5599.3
65°	9647.0	9680.9	9650.3	9505.4	8838.3	8125.1	7317.5	5898.8	5087.9	4705.0	6219.2
67.5°	9968.4	10002.5	10015.6	10246.0	9830.2	9146.6	8307.2	6594.4	5578.4	5093.4	6685.5
70°	9960.7	9950.9	10183.5	10835.3	11072.3	10561.0	9641.5	7450.3	6163.2	5416.0	6744.7
72.5°	9066.5	8987.5	9537.2	10828.7	12105.9	12037.8	11270.9	8554.1	6667.9	5455.5	5852.6
75°	6801.8	6591.2	7562.1	9758.8	12278.2	12876.2	12306.7	9238.7	6548.3	4820.2	4072.9
77.5°	2908.7	2697.0	3841.4	7224.2	10988.8	12036.8	11356.5	8060.3	5227.3	3187.4	2000.3
80°	761.5	760.3	1160.9	3275.3	7473.3	8888.8	7798.1	5205.4	2986.6	1139.0	552.0
82.5°	314.9	307.2	426.8	1273.9	3651.7	4988.1	4070.8	2321.7	1078.6	308.3	183.3
85°	117.4	116.3	207.4	440.0	1288.1	2057.3	1488.9	593.6	268.9	150.4	82.3
87.5°	32.9	31.8	45.0	152.5	313.9	476.2	254.6	97.7	75.7	59.2	24.2
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: P967878

CATALOG NUMBER: NAV-SB5A-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7
2.5°	2373.3	2378.8	2388.7	2396.3	2406.3	2417.3	2432.6	2442.5	2452.3	2458.9	2454.6
5°	2383.2	2395.3	2420.5	2445.8	2475.4	2502.8	2534.6	2557.7	2576.3	2581.8	2584.0
7.5°	2405.2	2424.9	2467.7	2510.5	2557.7	2602.7	2648.7	2688.3	2720.0	2732.1	2733.3
10°	2443.6	2469.8	2530.2	2590.6	2653.1	2722.3	2781.5	2838.5	2883.5	2902.2	2903.3
12.5°	2491.9	2524.8	2603.7	2687.1	2773.9	2869.3	2946.1	3016.3	3072.2	3097.5	3097.5
15°	2554.4	2597.1	2698.1	2810.0	2937.3	3070.1	3167.8	3245.7	3308.2	3338.9	3336.7
17.5°	2622.4	2679.5	2806.8	2975.7	3157.8	3332.3	3446.5	3503.4	3568.2	3597.9	3596.7
20°	2688.3	2758.5	2940.6	3186.4	3428.8	3614.4	3706.5	3721.9	3726.2	3729.6	3738.3
22.5°	2756.2	2850.6	3108.5	3451.9	3711.9	3840.4	3853.5	3787.7	3695.5	3652.7	3664.8
25°	2830.8	2956.0	3328.0	3744.8	3955.6	3971.0	3870.0	3709.8	3535.3	3455.2	3467.3
27.5°	2903.3	3077.8	3591.3	4024.7	4131.2	3996.2	3778.9	3551.7	3341.1	3256.6	3266.5
30°	2975.7	3217.1	3882.1	4269.3	4211.2	3933.6	3635.2	3381.7	3169.9	3081.0	3090.9
32.5°	3049.3	3379.5	4216.7	4446.0	4197.0	3800.8	3456.3	3190.8	3004.3	2911.0	2923.1
35°	3132.6	3579.2	4533.8	4542.6	4101.5	3605.5	3220.4	2962.6	2800.2	2725.6	2742.0
37.5°	3241.3	3832.7	4813.6	4566.7	3934.7	3319.2	2927.4	2692.7	2558.8	2524.8	2548.9
40°	3376.2	4137.7	5027.5	4528.3	3687.8	2971.4	2607.1	2419.4	2343.7	2351.4	2377.7
42.5°	3551.7	4478.9	5177.9	4429.5	3344.4	2612.5	2326.1	2242.8	2279.0	2309.7	2338.2
45°	3780.0	4833.4	5271.2	4261.6	2956.0	2308.6	2160.5	2180.2	2207.6	2210.9	2232.9
47.5°	4071.8	5192.1	5332.6	4008.3	2559.8	2094.6	2055.1	2059.5	2054.0	2031.0	2048.6
50°	4436.1	5541.0	5387.5	3672.5	2223.0	1960.7	1908.1	1892.8	1817.0	1742.4	1752.3
52.5°	4850.9	5861.5	5410.5	3255.5	1960.7	1848.9	1763.3	1666.8	1525.2	1502.1	1509.8
55°	5311.8	6157.7	5351.2	2743.1	1740.2	1705.1	1575.6	1459.3	1444.0	1424.2	1427.5
57.5°	5862.6	6477.0	5230.6	2171.5	1514.2	1537.2	1411.0	1424.2	1396.8	1366.0	1360.6
60°	6465.0	6807.3	5018.8	1650.2	1280.4	1327.7	1368.3	1367.1	1359.5	1334.2	1325.4
62.5°	7007.0	7024.5	4601.8	1264.0	1075.3	1165.2	1276.1	1275.0	1268.4	1254.2	1248.7
65°	7329.6	6991.6	3906.2	995.2	906.3	1031.5	1151.0	1159.8	1160.9	1159.8	1159.8
67.5°	7272.5	6606.5	2951.6	792.2	767.0	895.3	1027.0	1039.0	1047.9	1050.0	1052.3
70°	6627.3	5760.5	1924.5	632.0	643.0	775.7	909.6	921.7	929.4	938.2	942.5
72.5°	5165.8	4235.3	1101.7	511.3	534.3	672.6	793.3	807.6	812.0	828.4	835.0
75°	3148.0	2490.8	594.7	402.7	438.9	574.9	678.1	694.5	702.2	722.0	724.2
77.5°	1496.6	1078.6	339.1	313.9	353.3	469.7	572.8	591.4	570.5	581.6	572.8
80°	505.8	400.5	213.9	239.2	269.9	366.4	458.7	477.3	433.4	431.2	426.8
82.5°	176.6	162.4	136.0	159.1	174.5	262.2	346.8	370.8	322.6	321.5	306.2
85°	69.1	65.8	75.7	86.7	104.2	161.3	228.3	240.3	198.6	160.2	158.0
87.5°	14.2	15.4	18.7	19.8	31.8	56.0	82.3	101.0	80.1	68.1	62.5
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)