

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: P964580

Luminaire Tested: **NAV-SB3C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22986.6 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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

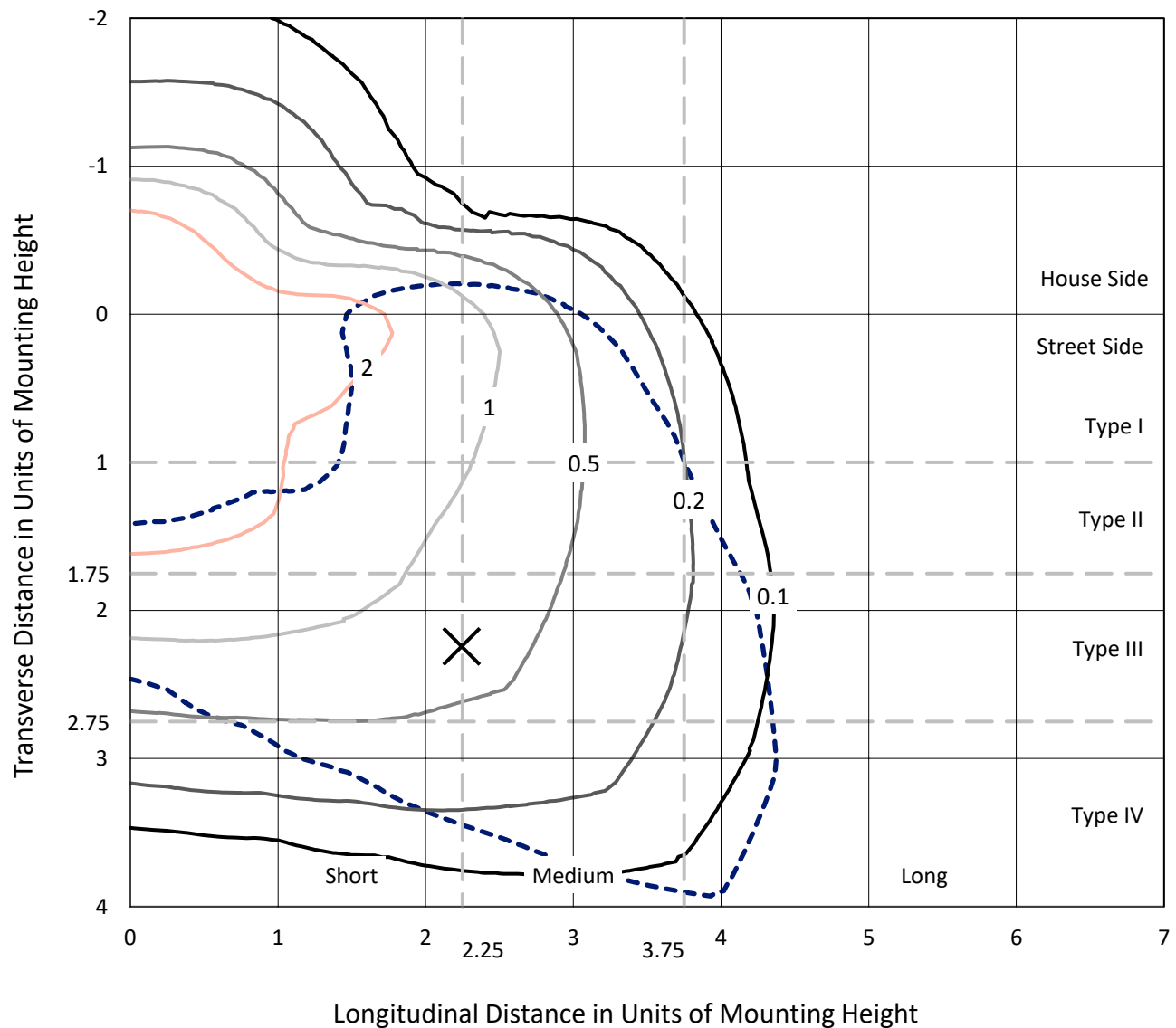


REPORT NUMBER: P964580

CATALOG NUMBER: NAV-SB3C-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

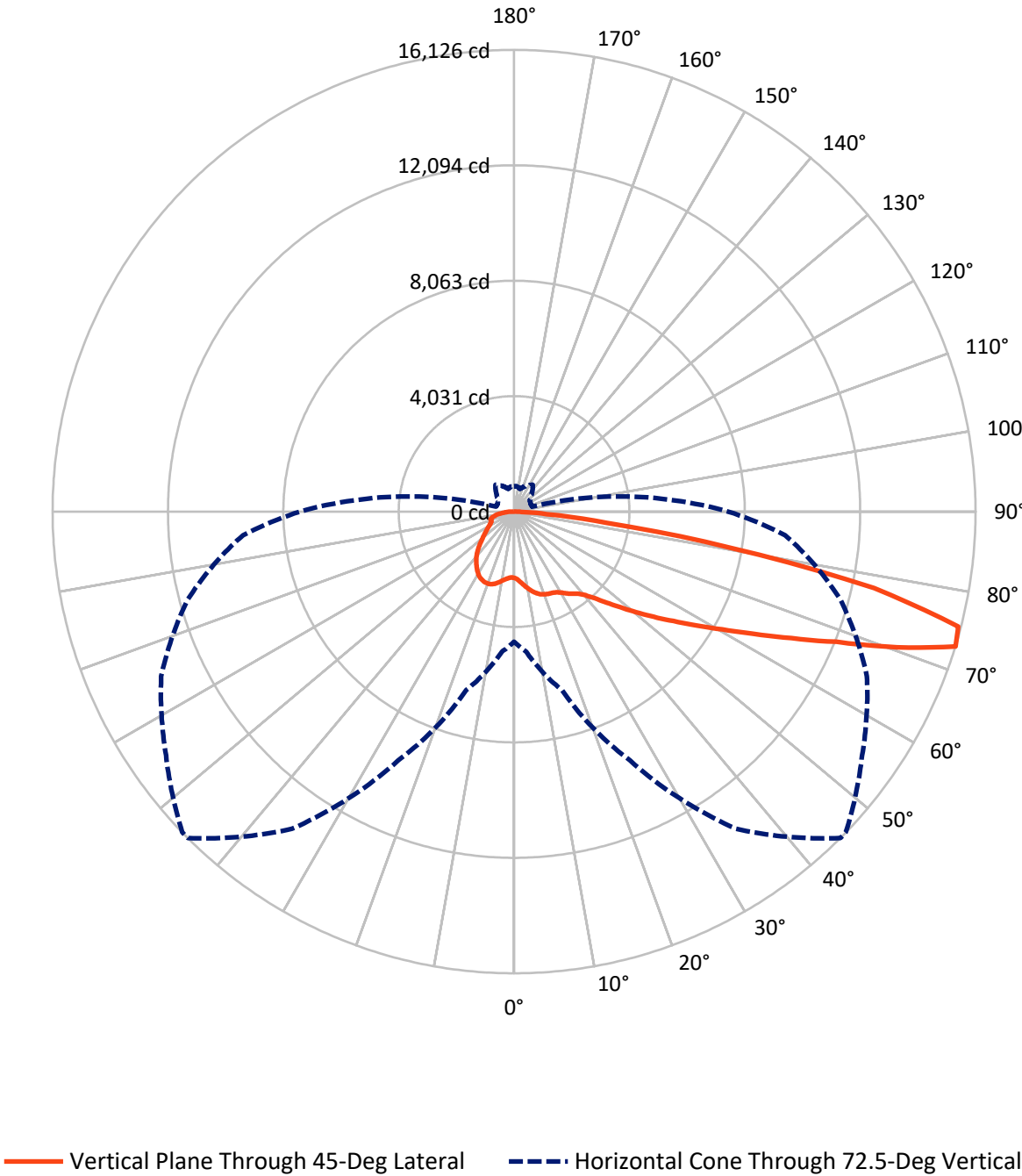
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - N/A

REPORT NUMBER: P964580
CATALOG NUMBER: NAV-SB3C-735-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P964580

CATALOG NUMBER: NAV-SB3C-735-U-T4W

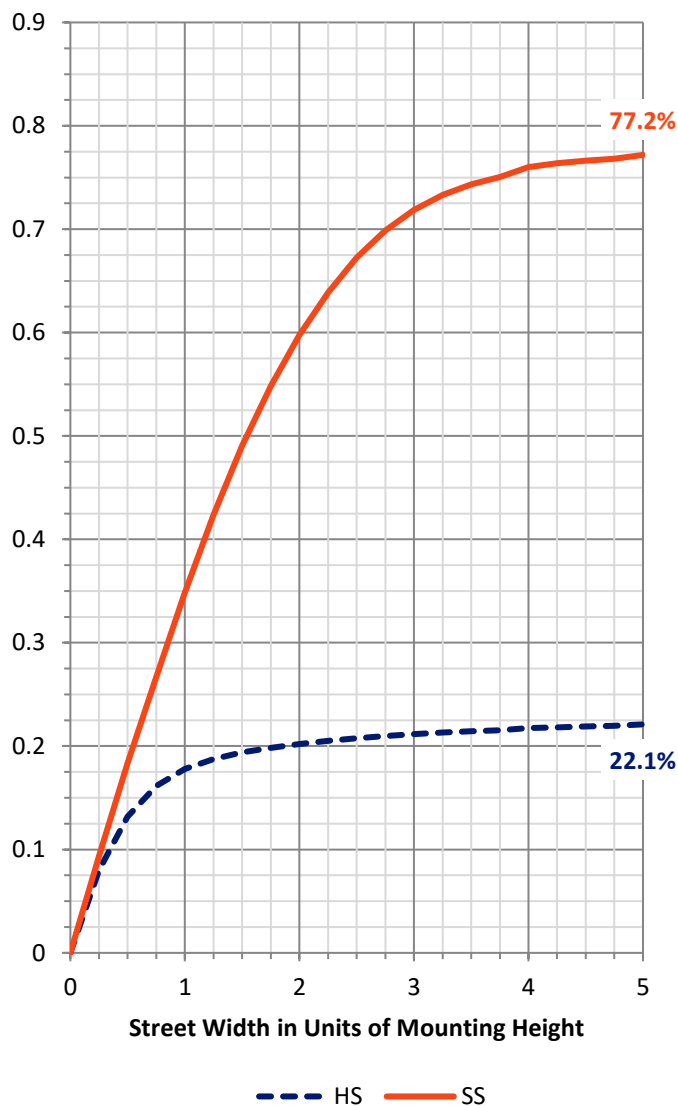
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5196.5	0.0	5196.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17790.2	0.0	17790.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	22986.6	0.0	22986.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	1.0
10°-20°	786.9	3.4
20°-30°	1368.9	6.0
30°-40°	1962.4	8.5
40°-50°	2763.1	12.0
50°-60°	4232.3	18.4
60°-70°	6131.1	26.7
70°-80°	4896.1	21.3
80°-90°	609.8	2.7
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°	22986.6	100.0
0°-180°	22986.6	100.0

Coefficient of Utilization



REPORT NUMBER: P964580

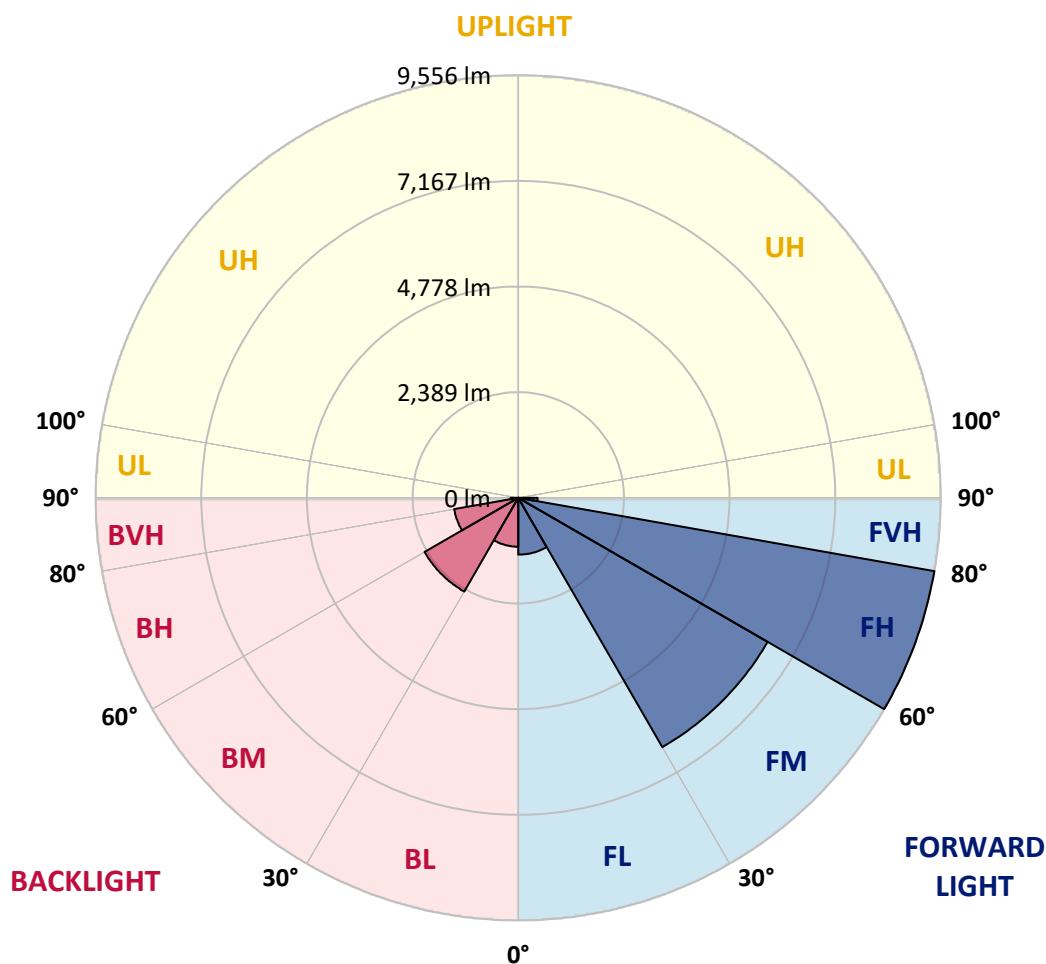
CATALOG NUMBER: NAV-SB3C-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1285.4	5.6			
FM	(30°-60°)	6511.0	28.3			
FH	(60°-80°)	9556.2	41.6			G4/12000
FVH	(80°-90°)	437.5	1.9			G3/500
BL	(0°-30°)	1106.4	4.8	B3/2500		
BM	(30°-60°)	2446.8	10.6	B2/2500		
BH	(60°-80°)	1471.0	6.4	B3/2500		G3/2500
BVH	(80°-90°)	172.3	0.7			G2/225
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 Short



REPORT NUMBER: P964580

CATALOG NUMBER: NAV-SB3C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9
2.5°	2409.8	2425.5	2410.9	2397.6	2391.5	2375.8	2374.6	2364.9	2358.8	2341.9	2337.1
5°	2578.1	2598.6	2574.4	2547.7	2523.5	2484.8	2480.0	2452.1	2420.6	2384.3	2363.8
7.5°	2768.1	2786.4	2758.5	2718.5	2676.2	2611.9	2610.8	2559.8	2510.2	2448.5	2413.4
10°	2934.1	2958.3	2920.7	2866.2	2813.0	2740.3	2731.8	2673.7	2610.8	2530.8	2477.5
12.5°	3080.5	3097.5	3061.2	2994.6	2932.8	2860.2	2849.3	2785.1	2714.9	2624.1	2556.2
15°	3196.8	3218.6	3170.2	3098.8	3033.4	2961.9	2952.2	2894.1	2823.9	2728.2	2641.0
17.5°	3273.1	3291.3	3241.7	3161.7	3098.8	3039.4	3032.2	2983.7	2922.0	2825.1	2731.8
20°	3302.1	3321.5	3269.4	3188.4	3130.2	3084.2	3080.5	3045.5	3003.0	2914.7	2820.2
22.5°	3331.2	3349.4	3281.5	3196.8	3145.9	3116.9	3115.7	3092.7	3075.7	3003.0	2911.0
25°	3448.7	3453.5	3362.7	3240.4	3167.8	3142.3	3141.1	3139.9	3147.2	3090.3	3009.1
27.5°	3550.4	3549.2	3471.7	3356.7	3244.0	3190.7	3189.6	3201.7	3224.6	3177.4	3110.9
30°	3699.3	3686.0	3594.0	3474.1	3371.2	3288.8	3281.5	3270.7	3288.8	3251.3	3212.6
32.5°	4015.4	3973.0	3824.1	3611.0	3476.5	3413.6	3403.9	3336.1	3343.3	3320.3	3300.9
35°	4468.3	4412.6	4214.0	3870.1	3607.3	3517.7	3512.9	3426.9	3412.3	3391.8	3399.0
37.5°	5007.1	4938.1	4706.8	4245.4	3832.6	3638.9	3631.6	3554.1	3494.7	3472.9	3514.1
40°	5548.4	5461.2	5269.9	4703.2	4164.4	3841.0	3818.0	3700.6	3632.7	3596.4	3683.6
42.5°	6073.9	6001.3	5837.8	5216.6	4573.7	4136.5	4085.6	3884.6	3833.8	3799.9	3957.3
45°	6539.0	6473.6	6353.7	5765.2	5053.1	4538.5	4488.9	4160.7	4145.0	4145.0	4372.6
47.5°	6916.8	6902.2	6775.0	6324.7	5618.6	4996.3	4910.3	4544.5	4587.0	4652.4	4962.3
50°	7335.7	7295.7	7160.1	6875.6	6283.5	5520.5	5450.3	5015.6	5174.2	5353.5	5814.8
52.5°	7720.8	7742.6	7591.3	7449.6	7034.2	6105.4	5981.9	5571.4	5914.1	6210.8	6813.8
55°	8116.8	8118.0	8075.6	8056.2	7821.3	6752.1	6616.5	6239.9	6784.8	7152.9	7978.7
57.5°	8488.5	8491.0	8553.9	8724.7	8734.3	7498.0	7344.2	7060.8	7752.3	8127.6	9180.0
60°	8820.3	8837.2	9009.2	9408.8	9537.2	8352.9	8207.6	8030.8	8752.5	9130.3	10442.9
62.5°	8931.7	8993.5	9376.1	9944.0	10330.4	9401.6	9258.6	9153.4	9803.6	10154.8	11498.9
65°	8742.8	8884.5	9624.3	10386.0	11146.5	10647.6	10505.9	10390.8	10895.9	11226.4	12365.9
67.5°	8279.0	8461.9	9609.8	10849.8	12137.0	12146.7	12014.7	11744.7	12066.8	12193.9	12648.0
70°	7057.2	7330.9	8763.4	11023.0	13274.1	14196.8	14069.7	13374.6	13235.3	12620.2	11853.7
72.5°	4547.0	4915.1	6453.0	9597.7	13527.1	16125.8	16118.5	14845.8	13604.6	11791.9	9506.9
75°	1659.0	1884.2	2998.2	6024.3	11354.7	16027.7	16074.9	14594.0	12419.2	9108.6	5922.6
77.5°	604.2	661.1	978.5	2315.3	6983.3	12860.0	12958.0	11667.2	8839.7	4571.2	2346.7
80°	317.2	348.7	501.3	898.5	2992.2	7637.3	7791.0	6933.7	4154.6	1376.8	703.6
82.5°	175.6	190.1	281.0	488.0	1347.8	3265.9	3357.9	2739.1	1461.5	583.6	290.6
85°	94.4	100.6	132.0	266.4	658.8	1132.2	1157.6	818.6	582.4	342.7	140.4
87.5°	27.9	33.9	43.6	84.8	257.9	254.3	260.3	162.3	230.1	173.1	46.0
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: P964580

CATALOG NUMBER: NAV-SB3C-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9
2.5°	2329.8	2326.1	2312.8	2306.8	2299.5	2298.4	2304.4	2305.6	2306.8	2308.0	2312.8
5°	2351.6	2339.5	2327.4	2320.1	2322.5	2323.8	2335.9	2344.4	2350.4	2355.2	2357.7
7.5°	2394.0	2384.3	2363.8	2362.5	2366.1	2377.1	2392.8	2412.1	2423.0	2431.5	2434.0
10°	2456.9	2438.8	2414.6	2418.2	2425.5	2441.2	2473.9	2489.6	2507.8	2523.5	2520.0
12.5°	2521.1	2505.4	2477.5	2480.0	2492.1	2520.0	2551.4	2570.8	2582.9	2595.0	2599.8
15°	2604.7	2576.8	2546.5	2546.5	2568.3	2598.6	2613.1	2628.9	2636.2	2649.5	2654.3
17.5°	2690.6	2654.3	2614.4	2611.9	2638.6	2653.1	2661.6	2664.0	2666.4	2681.0	2685.8
20°	2776.6	2736.6	2679.8	2674.9	2681.0	2678.5	2677.3	2674.9	2678.5	2696.7	2704.0
22.5°	2861.4	2815.4	2736.6	2714.9	2697.9	2674.9	2673.7	2672.5	2674.9	2693.1	2705.2
25°	2960.7	2905.0	2799.7	2734.3	2677.3	2645.8	2649.5	2650.6	2653.1	2667.7	2687.0
27.5°	3068.4	3006.7	2857.8	2728.2	2625.2	2603.5	2597.5	2601.0	2609.5	2632.5	2655.6
30°	3176.3	3103.6	2911.0	2704.0	2559.8	2529.6	2510.2	2518.7	2545.4	2568.3	2593.8
32.5°	3274.4	3201.7	2953.4	2650.6	2476.3	2429.1	2403.6	2414.6	2441.2	2449.6	2480.0
35°	3389.4	3307.1	2971.6	2565.9	2385.5	2312.8	2279.0	2263.2	2276.5	2268.0	2294.7
37.5°	3517.7	3431.7	2969.1	2454.6	2279.0	2195.3	2148.2	2088.8	2061.0	2032.0	2050.1
40°	3707.8	3584.3	2940.1	2320.1	2147.0	2070.7	1985.9	1885.4	1822.4	1765.6	1769.2
42.5°	3967.0	3796.2	2886.8	2172.4	1998.0	1926.6	1811.5	1694.1	1594.8	1500.3	1491.9
45°	4353.3	4073.6	2820.2	2014.9	1837.0	1766.7	1642.0	1510.0	1397.4	1276.3	1261.8
47.5°	4910.3	4446.4	2757.2	1835.8	1667.5	1603.3	1490.7	1368.4	1235.1	1117.7	1104.3
50°	5675.5	4981.7	2699.1	1661.4	1500.3	1451.9	1362.3	1237.6	1103.1	1008.7	1002.7
52.5°	6649.2	5709.5	2674.9	1493.0	1344.1	1325.9	1254.5	1138.3	1011.2	931.2	925.2
55°	7766.8	6580.1	2674.9	1332.0	1207.2	1213.3	1163.7	1056.0	945.8	874.3	867.0
57.5°	8907.5	7461.7	2626.5	1183.1	1091.0	1116.4	1085.0	990.6	891.2	817.3	805.2
60°	9958.6	8200.3	2430.3	1047.4	988.1	1028.1	1007.5	926.4	805.2	743.5	733.8
62.5°	10766.3	8616.9	2052.5	939.7	903.3	949.4	938.5	841.6	789.6	764.1	755.6
65°	11170.8	8549.1	1569.4	844.0	831.9	903.3	880.4	876.7	835.6	806.5	796.7
67.5°	10922.5	7965.4	1138.3	773.8	790.7	861.0	949.4	963.9	887.6	830.7	821.0
70°	9833.8	6909.5	847.7	707.1	738.6	862.1	1082.6	1008.7	870.6	804.0	793.1
72.5°	7481.1	5152.5	657.5	636.9	670.9	868.3	1141.8	988.1	822.3	888.8	881.5
75°	4278.1	2828.7	528.0	550.9	586.1	811.3	1111.6	934.8	784.6	816.2	816.2
77.5°	1631.1	1087.4	435.9	466.2	471.1	708.4	1063.2	931.2	747.1	729.0	664.8
80°	565.5	425.1	360.9	370.5	364.5	629.7	1019.6	810.1	611.5	547.3	529.2
82.5°	231.2	211.9	285.8	273.7	259.1	489.2	823.4	662.4	500.1	442.0	437.2
85°	100.6	134.4	188.9	165.8	150.2	339.1	660.0	560.7	422.6	364.5	363.3
87.5°	20.6	50.8	79.9	75.0	77.5	226.4	468.6	398.4	299.1	224.1	175.6
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)