

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: P970554

Luminaire Tested: **NAV-SB6B-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-835-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32899.4 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 220.4
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

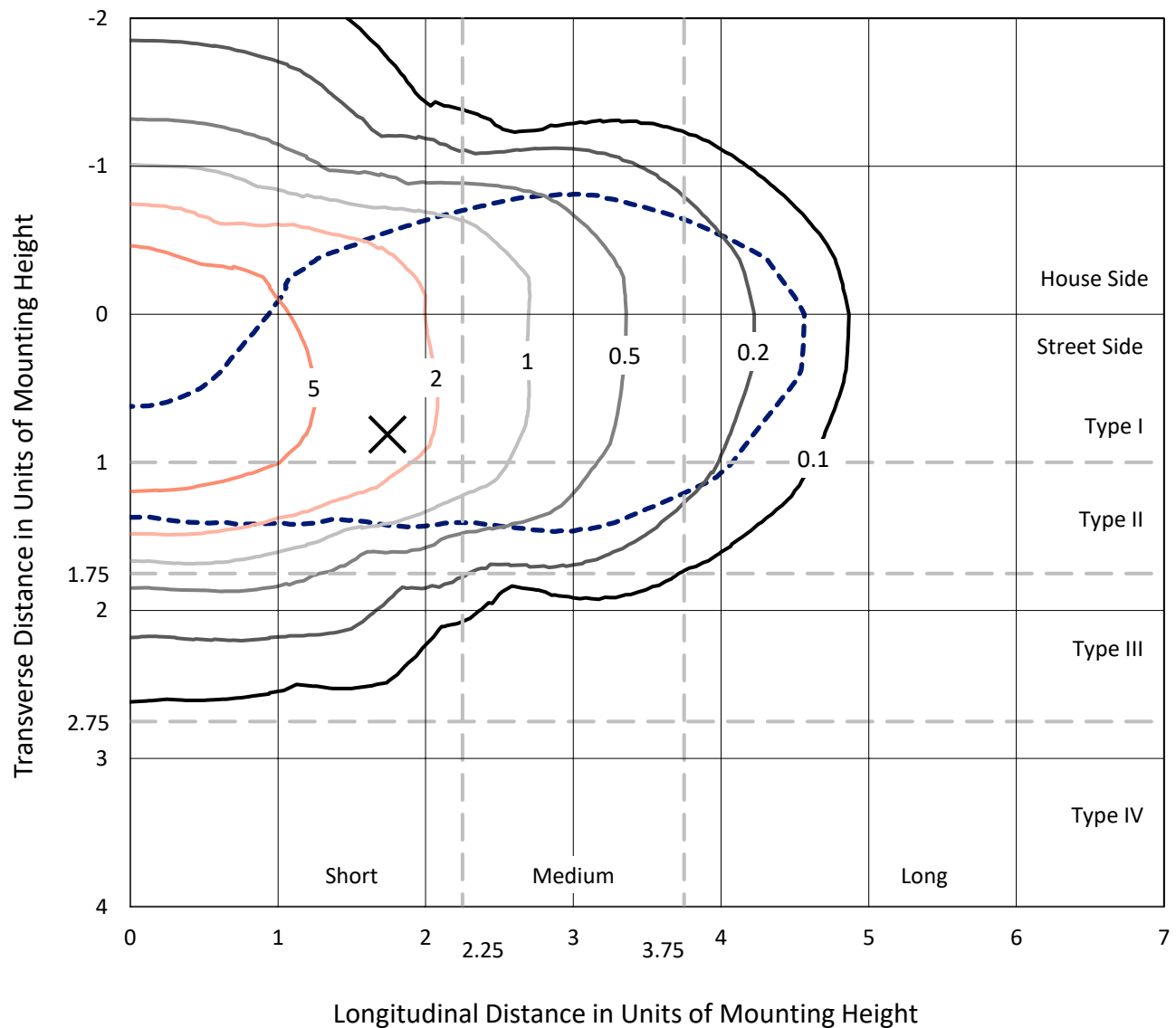


REPORT NUMBER: P970554

CATALOG NUMBER: NAV-SB6B-835-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

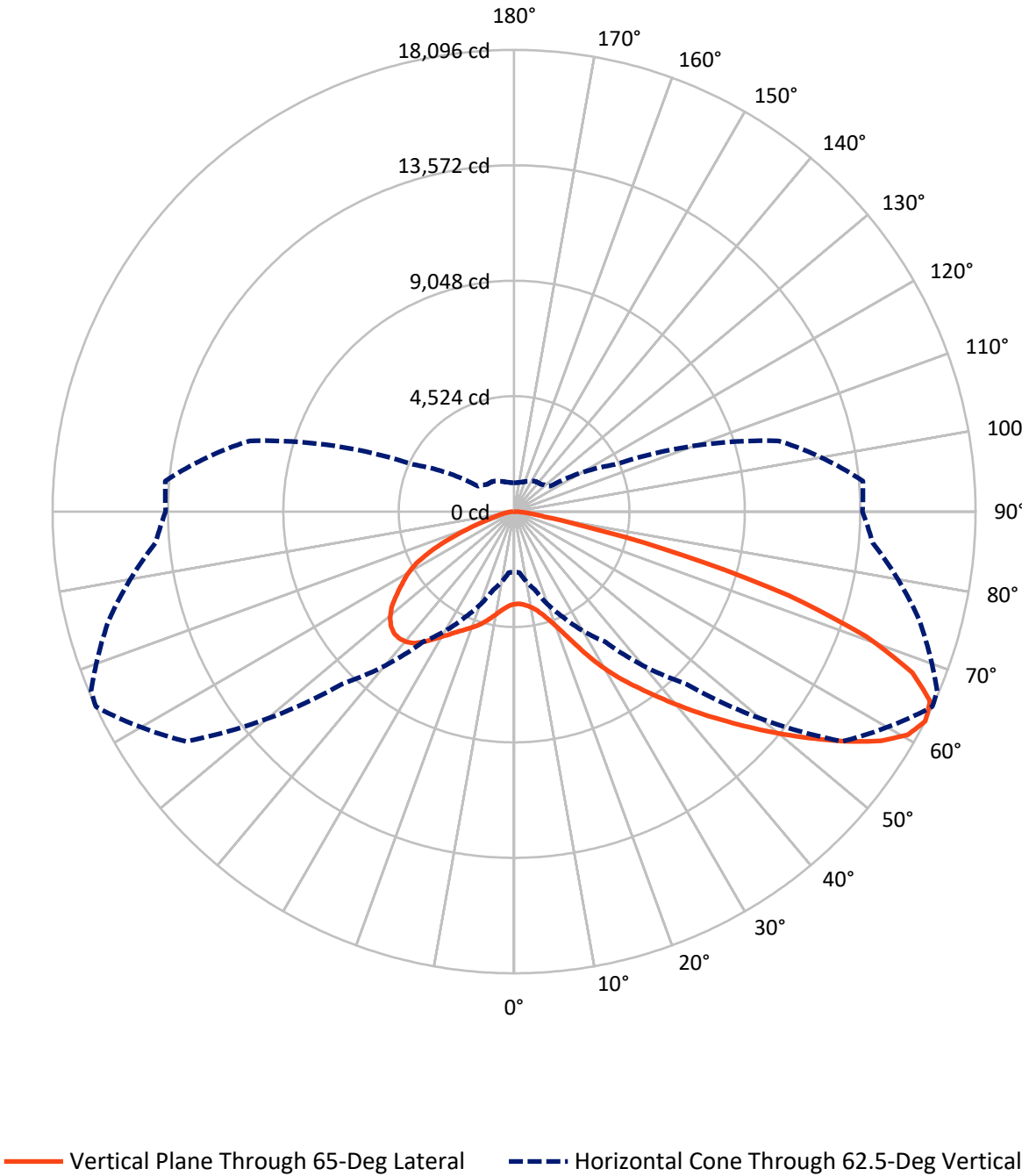
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

REPORT NUMBER: P970554
CATALOG NUMBER: NAV-SB6B-835-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P970554

CATALOG NUMBER: NAV-SB6B-835-U-T2U

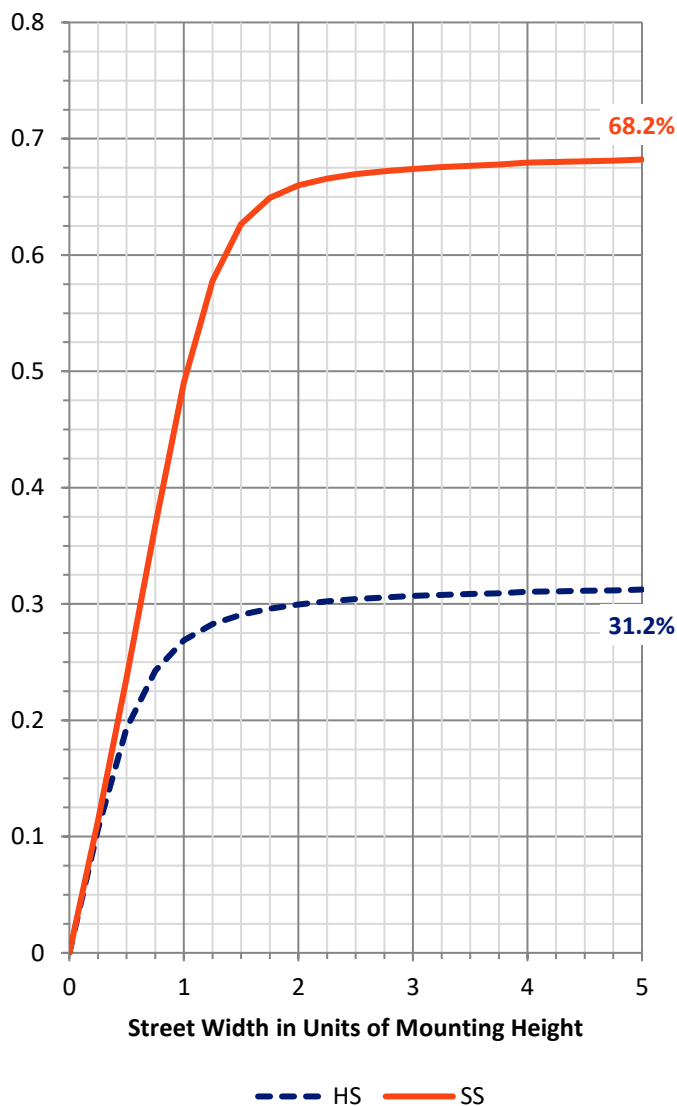
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10381.6	0.0	10381.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	22517.8	0.0	22517.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	32899.4	0.0	32899.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	1.1
10°-20°	1225.7	3.7
20°-30°	2485.2	7.6
30°-40°	4300.6	13.1
40°-50°	6508.2	19.8
50°-60°	7630.4	23.2
60°-70°	6397.2	19.4
70°-80°	3531.8	10.7
80°-90°	458.8	1.4
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°	32899.4	100.0
0°-180°	32899.4	100.0

Coefficient of Utilization



REPORT NUMBER: P970554

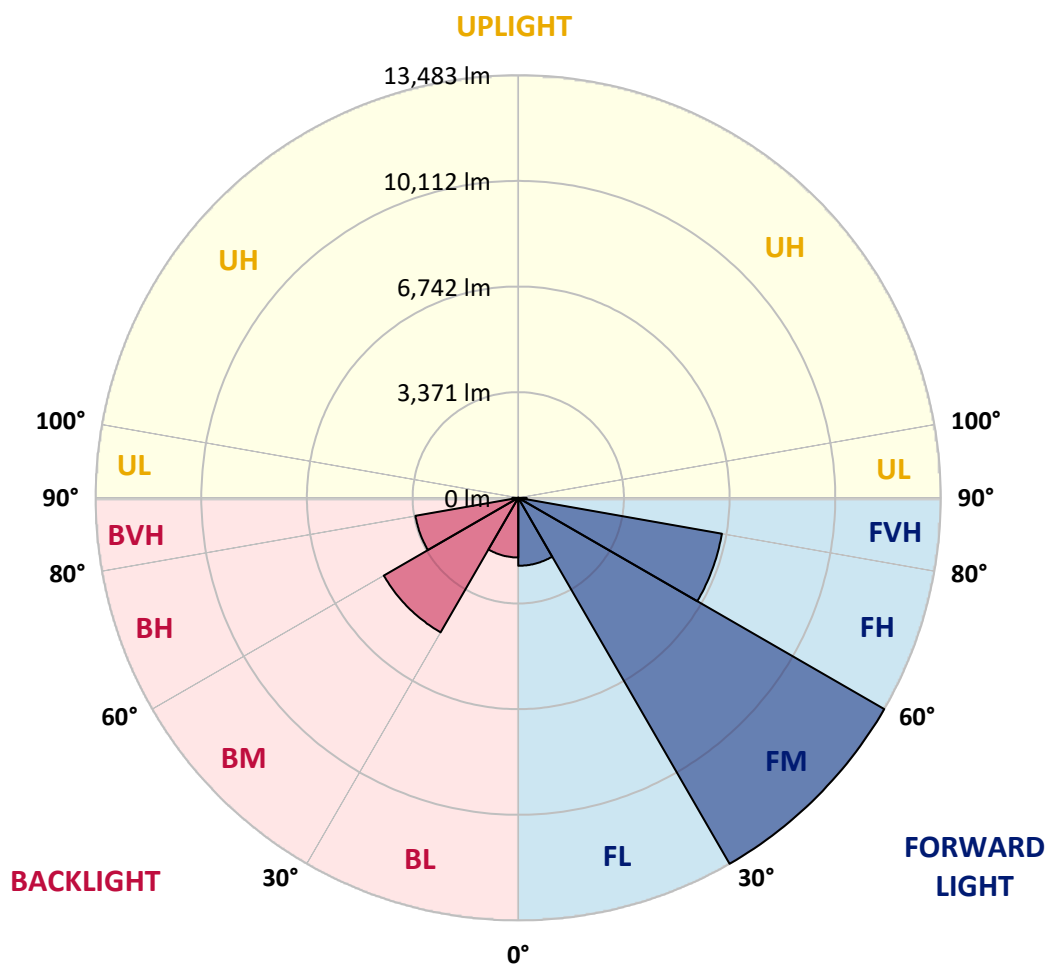
CATALOG NUMBER: NAV-SB6B-835-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2168.5	6.6			
FM	(30°-60°)	13483.3	41.0			
FH	(60°-80°)	6598.6	20.1			G3/7500
FVH	(80°-90°)	267.4	0.8			G3/500
BL	(0°-30°)	1903.9	5.8	B3/2500		
BM	(30°-60°)	4956.0	15.1	B3/5000		
BH	(60°-80°)	3330.3	10.1	B4/5000		G4/5000
BVH	(80°-90°)	191.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P970554

CATALOG NUMBER: NAV-SB6B-835-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4
2.5°	3601.4	3591.2	3599.8	3599.8	3603.2	3601.4	3613.4	3616.8	3621.9	3632.2	3632.2
5°	3565.7	3563.9	3579.3	3592.9	3606.6	3618.6	3633.9	3656.1	3659.6	3671.4	3686.8
7.5°	3553.7	3543.4	3567.3	3584.4	3616.8	3645.8	3686.8	3724.3	3739.7	3744.8	3773.8
10°	3645.8	3628.8	3650.9	3661.2	3688.6	3717.6	3765.3	3825.1	3842.1	3862.6	3895.1
12.5°	3802.9	3784.1	3816.6	3831.9	3857.5	3883.1	3915.5	3973.6	3982.1	4019.6	4050.4
15°	4018.0	3995.8	4016.3	4035.0	4077.7	4101.5	4134.0	4190.3	4190.3	4219.4	4241.6
17.5°	4309.8	4280.8	4296.2	4303.0	4330.3	4366.2	4420.7	4470.2	4495.9	4485.6	4455.0
20°	4745.0	4709.3	4709.3	4675.1	4664.9	4693.9	4765.5	4833.8	4861.2	4808.3	4733.1
22.5°	5398.8	5347.6	5318.6	5202.5	5156.5	5159.8	5231.5	5315.1	5337.4	5243.5	5074.5
25°	6230.1	6149.8	6110.5	5939.9	5835.7	5745.3	5801.6	5909.1	5939.9	5823.8	5550.7
27.5°	7061.3	7066.5	7028.8	6824.0	6651.6	6486.1	6457.1	6569.7	6602.1	6470.7	6132.8
30°	8227.1	8105.9	8034.2	7788.4	7542.7	7310.5	7191.0	7237.1	7245.6	7088.6	6696.0
32.5°	9232.4	9201.7	9048.1	8833.0	8517.2	8153.7	7954.0	7880.6	7866.9	7643.3	7177.4
35°	10377.7	10360.7	10198.5	9942.5	9601.1	9095.8	8735.8	8525.7	8508.7	8194.7	7653.6
37.5°	11541.8	11541.8	11383.0	11103.1	10749.8	10118.3	9570.3	9237.5	9182.9	8773.3	8138.3
40°	12470.4	12414.0	12443.0	12325.2	11920.7	11249.9	10497.2	10014.1	9940.8	9449.2	8653.8
42.5°	12997.7	12979.0	13153.1	13284.5	13119.0	12583.0	11517.9	10855.7	10753.3	10193.4	9247.8
45°	13115.5	13095.1	13405.7	13887.0	14119.2	13899.0	12627.4	11741.5	11616.9	10971.7	9884.5
47.5°	12844.2	12803.2	13258.9	14018.4	14762.7	15150.1	13829.0	12702.4	12521.5	11729.6	10538.1
50°	12028.3	11989.0	12678.5	13687.3	14979.5	16000.1	15133.0	13721.5	13444.9	12542.0	11198.7
52.5°	10254.8	10273.6	11354.0	12740.0	14694.4	16529.3	16256.2	14795.1	14462.2	13373.3	11818.4
55°	7988.1	8029.0	9357.0	10882.9	13554.2	16449.0	17022.5	15901.1	15570.0	14155.0	12458.4
57.5°	5719.7	5900.6	7145.0	8655.5	11364.3	15177.4	17189.8	16952.6	16631.6	15008.5	13084.8
60°	3707.3	3739.7	5019.8	6542.4	8653.8	12917.6	16850.2	17749.6	17498.7	15878.9	13608.8
62.5°	2376.0	2398.1	3178.2	4576.1	6228.3	9556.7	15706.6	18096.2	18019.3	16454.1	14112.3
65°	1746.1	1729.1	2135.3	3024.6	4195.4	5893.7	13485.9	17928.9	18080.8	16814.3	14528.8
67.5°	1457.7	1433.8	1633.4	2094.3	3091.1	3347.1	9978.3	16841.6	17398.0	16773.3	14834.3
70°	1327.9	1307.5	1428.6	1554.9	2411.8	2241.1	5030.1	14641.4	15498.3	16307.3	14784.8
72.5°	1124.8	1089.0	1254.5	1380.9	1875.9	1718.8	2079.0	11246.5	12291.1	14813.8	14088.4
75°	872.2	848.3	989.9	1215.2	1409.9	1341.6	1314.3	6829.2	7969.4	11456.4	12325.2
77.5°	691.3	658.9	788.5	947.3	1268.2	1012.2	957.6	2940.9	4070.9	7313.9	9222.1
80°	520.6	491.6	599.1	749.3	974.6	763.0	619.6	1200.0	1534.4	3705.6	4637.5
82.5°	370.4	344.8	418.2	549.6	655.4	684.5	380.6	672.5	756.1	1428.6	1036.1
85°	237.3	221.9	279.9	344.8	416.5	440.3	232.2	351.6	385.7	588.9	431.8
87.5°	129.8	105.8	150.2	160.4	192.9	175.8	110.9	128.0	138.3	213.4	182.7
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: P970554

CATALOG NUMBER: NAV-SB6B-835-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4
2.5°	3639.1	3644.2	3661.2	3666.3	3678.3	3693.7	3703.9	3714.1	3714.1	3724.3	3724.3
5°	3688.6	3700.5	3736.3	3755.1	3785.8	3816.6	3835.3	3857.5	3871.1	3878.0	3881.4
7.5°	3784.1	3802.9	3854.1	3886.5	3939.5	3982.1	4011.1	4041.9	4048.6	4067.4	4060.6
10°	3913.9	3936.0	3994.0	4055.5	4118.7	4171.5	4198.9	4221.1	4229.6	4233.0	4224.4
12.5°	4062.3	4094.8	4169.9	4244.9	4311.6	4357.6	4364.4	4359.3	4335.4	4314.9	4314.9
15°	4244.9	4273.9	4357.6	4439.6	4504.4	4513.0	4470.2	4443.0	4414.0	4408.8	4408.8
17.5°	4463.5	4478.8	4555.6	4635.9	4641.0	4612.0	4548.7	4523.2	4495.9	4477.1	4478.8
20°	4717.8	4712.6	4767.3	4801.4	4765.5	4676.8	4581.2	4538.5	4511.2	4489.1	4490.7
22.5°	5021.6	4982.3	4975.5	4966.9	4871.4	4685.4	4555.6	4501.0	4458.3	4427.6	4437.8
25°	5463.7	5313.5	5209.4	5151.3	4936.2	4639.3	4473.7	4352.5	4272.3	4219.4	4239.8
27.5°	6016.6	5764.1	5501.2	5359.5	4936.2	4545.4	4275.7	4079.4	3948.0	3893.4	3920.6
30°	6544.1	6279.6	5892.1	5610.4	4924.3	4391.7	3956.5	3683.4	3529.8	3475.2	3507.6
32.5°	6994.7	6706.3	6306.8	5885.2	4895.3	4142.5	3560.5	3258.4	3110.0	3045.1	3077.5
35°	7412.9	7105.7	6723.3	6187.4	4818.4	3777.3	3125.2	2894.8	2729.3	2625.1	2659.3
37.5°	7841.4	7476.0	7117.6	6460.5	4680.3	3350.5	2790.8	2594.5	2399.8	2259.9	2297.4
40°	8307.3	7870.4	7539.2	6622.6	4453.2	2944.3	2531.2	2352.1	2145.5	1997.0	2026.0
42.5°	8851.8	8343.1	8008.6	6706.3	4142.5	2655.9	2362.3	2186.5	1991.9	1870.7	1894.6
45°	9420.2	8863.7	8437.0	6704.5	3796.1	2521.0	2307.7	2133.5	1918.5	1792.2	1812.7
47.5°	10015.9	9408.3	8807.4	6595.4	3495.7	2539.8	2276.9	2019.2	1782.0	1659.1	1676.2
50°	10613.3	10003.9	9165.9	6390.5	3367.6	2498.8	2162.5	1858.7	1578.8	1467.9	1474.8
52.5°	11205.5	10637.1	9474.8	6098.6	3237.9	2346.9	2015.8	1650.6	1495.2	1418.4	1418.4
55°	11801.2	11263.6	9811.0	5673.6	2913.6	2169.4	1770.0	1572.0	1428.6	1358.6	1351.9
57.5°	12398.6	11987.3	10130.2	5248.6	2505.7	1951.0	1635.2	1476.4	1362.1	1302.4	1292.1
60°	13020.0	12815.2	10459.6	4857.7	2102.9	1671.1	1536.2	1399.6	1283.6	1217.0	1211.9
62.5°	13660.0	13726.6	10717.4	4354.2	1732.5	1500.3	1447.4	1307.5	1194.8	1131.6	1130.0
65°	14305.2	14605.6	10886.3	3656.1	1404.8	1338.1	1351.9	1206.7	1092.3	1037.8	1036.1
67.5°	14791.7	15238.9	10838.6	2766.8	1152.1	1184.6	1232.4	1101.0	993.4	950.7	952.4
70°	14846.3	15163.7	10367.5	1894.6	964.4	1034.3	1099.2	996.8	885.9	855.2	856.8
72.5°	14119.2	14139.7	9054.8	1237.5	815.9	908.0	959.3	891.0	783.4	752.8	751.0
75°	12212.6	11693.7	6648.3	815.9	682.8	780.0	827.8	780.0	675.9	682.8	658.9
77.5°	9252.9	8281.7	4036.8	580.4	570.1	655.4	720.3	686.1	597.4	670.8	590.6
80°	4767.3	4480.5	1800.7	433.6	450.6	524.0	592.2	547.9	472.8	450.6	411.3
82.5°	1092.3	1269.9	710.0	310.7	326.1	377.2	452.3	411.3	339.7	286.8	283.3
85°	382.3	418.2	314.1	194.5	191.2	235.5	307.2	274.8	230.4	184.3	194.5
87.5°	121.2	158.8	117.8	78.5	81.9	105.8	141.7	129.8	107.5	70.0	73.4
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)