

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: P970926

Luminaire Tested: **NAV-SB6C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970926
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-SB6C-740-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49908.3 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 300.9
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

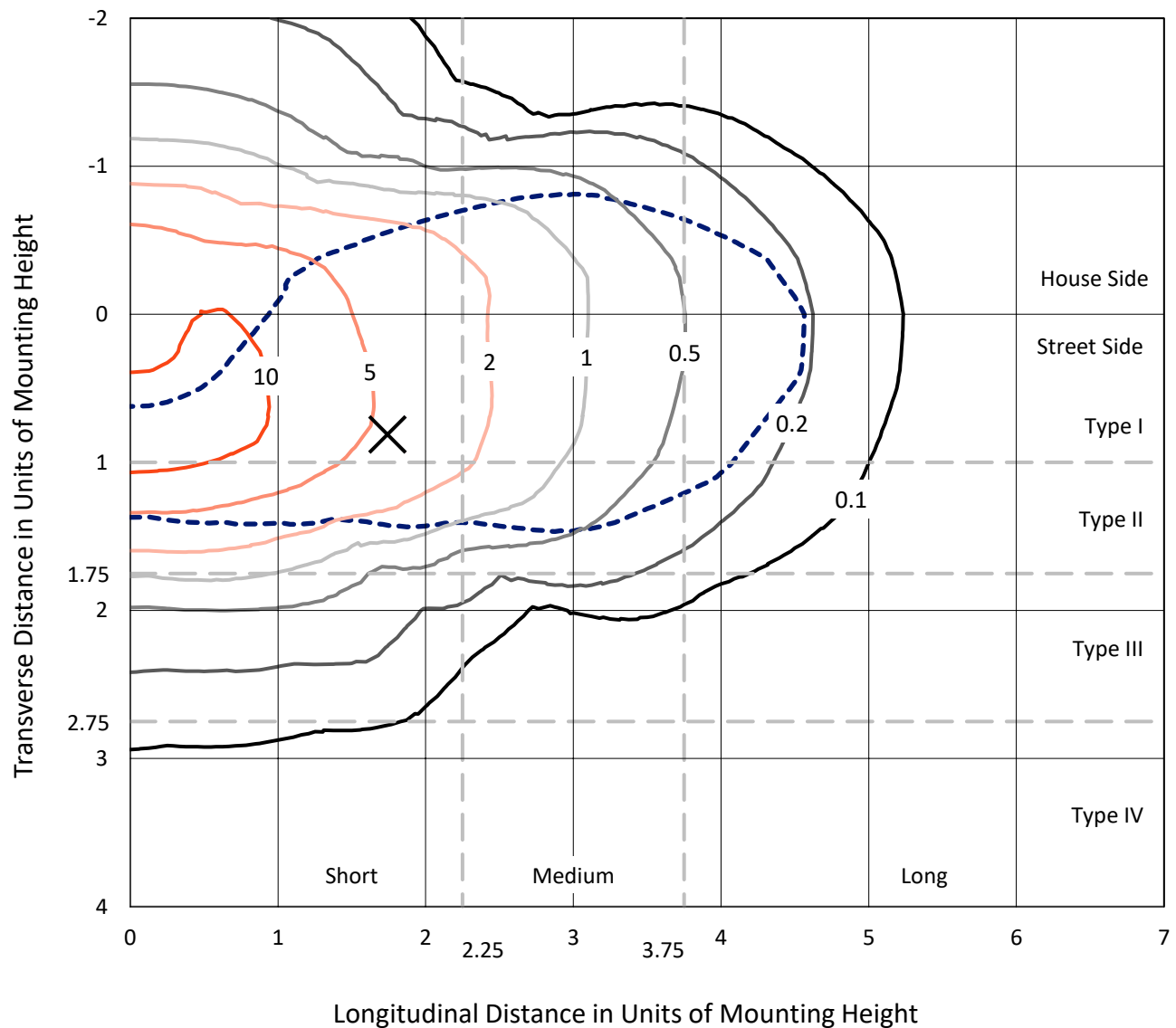


REPORT NUMBER: P970926

CATALOG NUMBER: NAV-SB6C-740-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

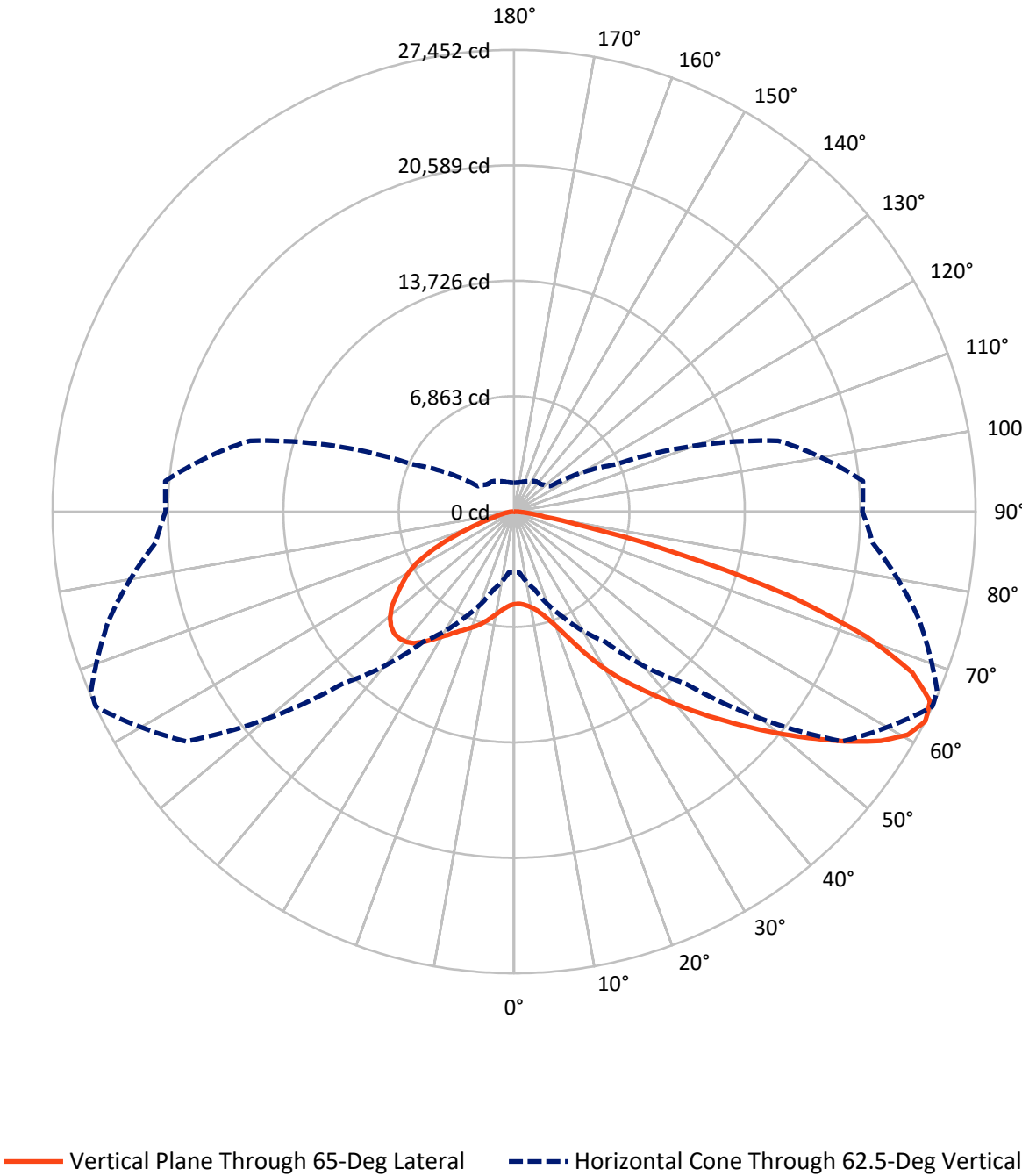
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
Type II - Short - N/A

REPORT NUMBER: P970926
CATALOG NUMBER: NAV-SB6C-740-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P970926

CATALOG NUMBER: NAV-SB6C-740-U-T2U

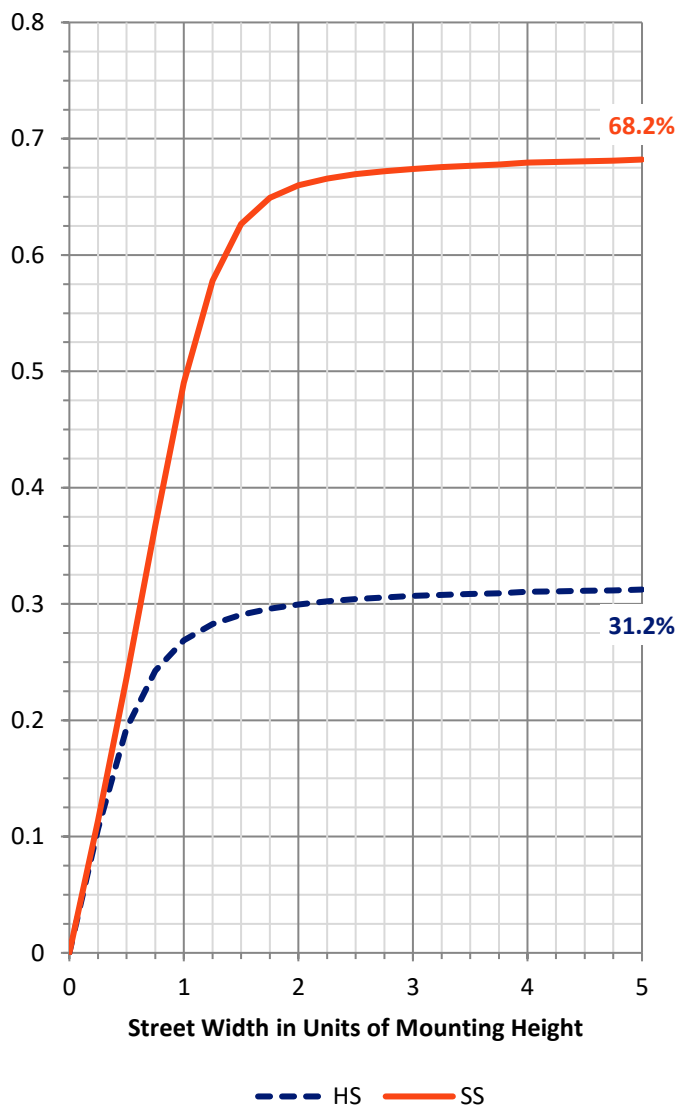
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15748.9	0.0	15748.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	34159.4	0.0	34159.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	49908.3	0.0	49908.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.3	1.1
10°-20°	1859.4	3.7
20°-30°	3770.1	7.6
30°-40°	6524.1	13.1
40°-50°	9872.9	19.8
50°-60°	11575.4	23.2
60°-70°	9704.5	19.4
70°-80°	5357.7	10.7
80°-90°	695.9	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°	49908.3	100.0
0°-180°	49908.3	100.0

Coefficient of Utilization



REPORT NUMBER: P970926

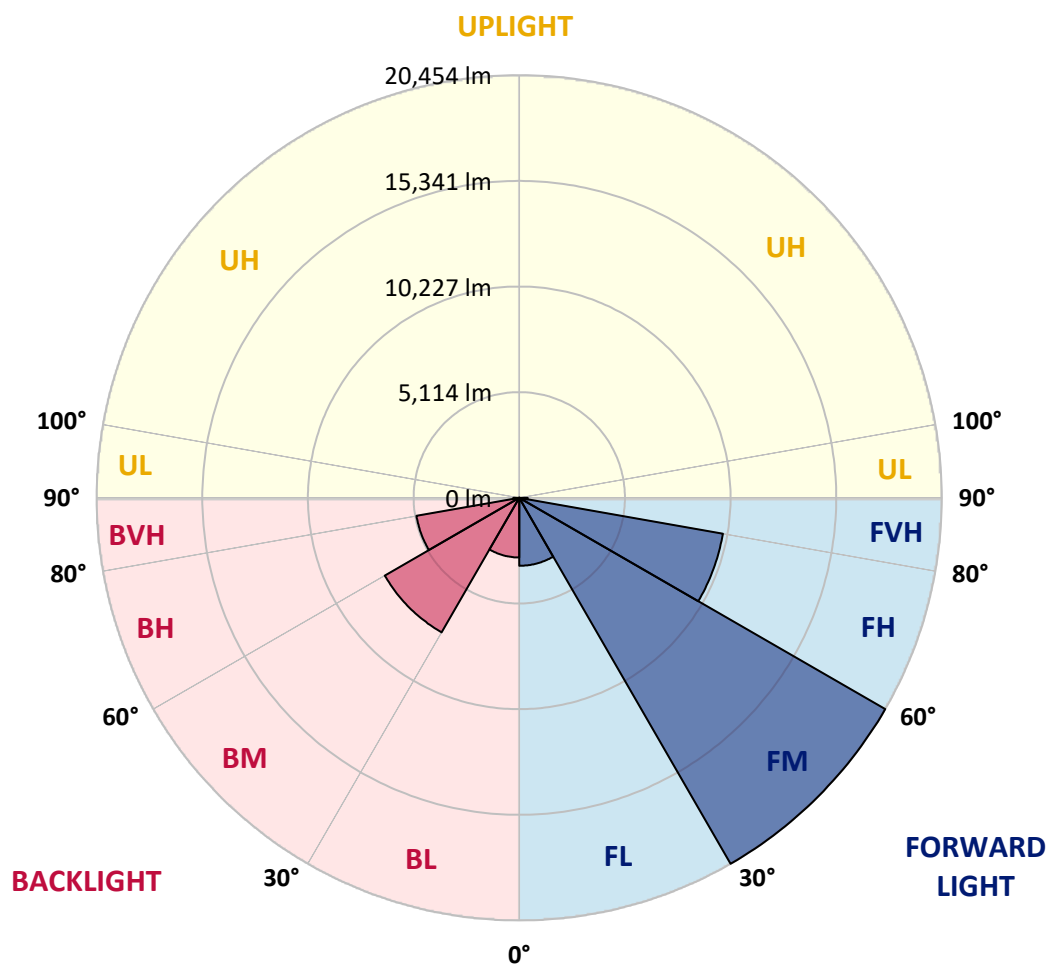
CATALOG NUMBER: NAV-SB6C-740-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3289.6	6.6			
FM	(30°-60°)	20454.0	41.0			
FH	(60°-80°)	10010.1	20.1			G4/12000
FVH	(80°-90°)	405.6	0.8			G3/500
BL	(0°-30°)	2888.2	5.8	B4/5000		
BM	(30°-60°)	7518.3	15.1	B4/8500		
BH	(60°-80°)	5052.1	10.1	B5		G5
BVH	(80°-90°)	290.3	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



REPORT NUMBER: P970926

CATALOG NUMBER: NAV-SB6C-740-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6
2.5°	5463.5	5447.9	5460.8	5460.8	5466.0	5463.5	5481.6	5486.7	5494.5	5510.0	5510.0
5°	5409.0	5406.5	5429.7	5450.4	5471.1	5489.3	5512.7	5546.3	5551.5	5569.5	5592.9
7.5°	5390.9	5375.4	5411.6	5437.5	5486.7	5530.8	5592.9	5649.9	5673.2	5681.0	5724.9
10°	5530.8	5504.9	5538.5	5554.1	5595.5	5639.4	5712.0	5802.6	5828.6	5859.6	5908.8
12.5°	5769.0	5740.5	5789.7	5813.0	5851.8	5890.7	5939.9	6027.9	6040.8	6097.8	6144.4
15°	6095.3	6061.5	6092.6	6121.1	6185.9	6222.1	6271.3	6356.7	6356.7	6400.7	6434.4
17.5°	6538.0	6494.0	6517.3	6527.6	6569.0	6623.4	6706.3	6781.4	6820.2	6804.7	6758.0
20°	7198.3	7143.8	7143.8	7092.1	7076.6	7120.6	7229.3	7332.8	7374.4	7294.1	7180.1
22.5°	8190.0	8112.3	8068.3	7892.2	7822.3	7827.4	7936.2	8063.1	8096.8	7954.3	7698.0
25°	9450.9	9329.2	9269.7	9010.8	8852.8	8715.6	8801.1	8964.1	9010.8	8834.7	8420.4
27.5°	10712.0	10719.8	10662.8	10352.0	10090.5	9839.4	9795.3	9966.2	10015.4	9816.0	9303.3
30°	12480.4	12296.6	12187.9	11815.0	11442.1	11090.0	10908.8	10978.7	10991.6	10753.4	10157.9
32.5°	14005.5	13959.0	13725.9	13399.6	12920.6	12369.1	12066.1	11954.8	11934.1	11594.9	10888.0
35°	15743.0	15717.0	15471.0	15082.7	14564.8	13798.3	13252.0	12933.6	12907.6	12431.2	11610.4
37.5°	17508.8	17508.8	17268.1	16843.4	16307.4	15349.4	14518.2	14013.3	13930.5	13309.0	12345.8
40°	18917.4	18832.0	18876.0	18697.3	18083.7	17066.0	15924.2	15191.4	15080.1	14334.4	13127.8
42.5°	19717.5	19689.0	19953.2	20152.5	19901.4	19088.4	17472.6	16468.0	16312.6	15463.4	14028.9
45°	19896.2	19865.1	20336.4	21066.5	21418.7	21084.7	19155.6	17811.8	17622.8	16644.1	14994.6
47.5°	19484.5	19422.3	20113.7	21265.9	22394.8	22982.7	20978.5	19269.6	18995.1	17793.7	15986.3
50°	18246.8	18187.3	19233.3	20763.6	22723.7	24272.1	22956.7	20815.4	20396.0	19026.2	16988.5
52.5°	15556.5	15585.0	17224.0	19326.6	22291.3	25074.8	24660.5	22444.0	21939.1	20287.2	17928.3
55°	12118.0	12180.1	14194.5	16509.4	20561.6	24953.1	25823.1	24121.9	23619.6	21473.0	18899.3
57.5°	8676.7	8951.2	10838.9	13130.4	17239.6	23024.1	26076.8	25716.9	25230.2	22767.7	19849.5
60°	5624.0	5673.2	7615.1	9924.8	13127.8	19595.8	25561.6	26926.1	26545.6	24088.2	20644.5
62.5°	3604.3	3637.9	4821.3	6941.9	9448.3	14497.5	23826.7	27451.8	27335.2	24960.9	21408.4
65°	2648.8	2623.0	3239.2	4588.2	6364.5	8940.9	20458.1	27198.1	27428.5	25507.2	22040.2
67.5°	2211.2	2175.0	2477.9	3177.1	4689.3	5077.6	15137.1	25548.6	26392.7	25445.1	22503.6
70°	2014.4	1983.4	2167.3	2358.8	3658.6	3399.7	7630.7	22211.0	23510.8	24738.2	22428.5
72.5°	1706.3	1652.0	1903.1	2094.8	2845.6	2607.4	3153.7	17060.9	18645.6	22472.5	21372.1
75°	1323.2	1286.9	1501.8	1843.6	2138.8	2035.2	1993.7	10359.8	12089.5	17379.4	18697.3
77.5°	1048.7	999.5	1196.3	1437.0	1923.8	1535.4	1452.6	4461.4	6175.5	11095.1	13990.0
80°	789.8	745.7	908.9	1136.7	1478.5	1157.4	939.9	1820.3	2327.8	5621.4	7035.1
82.5°	561.9	523.1	634.4	833.7	994.2	1038.3	577.4	1020.2	1147.1	2167.3	1571.7
85°	359.9	336.6	424.7	523.1	631.8	668.0	352.2	533.4	585.2	893.3	655.1
87.5°	196.8	160.5	227.9	243.4	292.6	266.7	168.3	194.2	209.7	323.7	277.1
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: P970926

CATALOG NUMBER: NAV-SB6C-740-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6	5499.6
2.5°	5520.3	5528.1	5554.1	5561.9	5579.9	5603.3	5618.7	5634.3	5634.3	5649.9	5649.9
5°	5595.5	5613.6	5667.9	5696.4	5743.1	5789.7	5818.2	5851.8	5872.5	5882.9	5888.1
7.5°	5740.5	5769.0	5846.6	5895.8	5976.1	6040.8	6084.8	6131.4	6141.8	6170.3	6159.9
10°	5937.3	5970.9	6059.0	6152.2	6248.0	6328.2	6369.7	6403.4	6416.3	6421.4	6408.5
12.5°	6162.5	6211.7	6325.7	6439.6	6540.5	6610.5	6620.9	6613.1	6576.8	6545.8	6545.8
15°	6439.6	6483.6	6610.5	6734.8	6833.2	6846.1	6781.4	6740.0	6695.9	6688.1	6688.1
17.5°	6771.0	6794.3	6910.9	7032.5	7040.3	6996.3	6900.5	6861.7	6820.2	6791.8	6794.3
20°	7156.9	7149.1	7231.9	7283.8	7229.3	7094.6	6949.7	6884.9	6843.5	6809.9	6812.5
22.5°	7617.7	7558.1	7547.8	7534.9	7389.8	7107.7	6910.9	6828.0	6763.3	6716.6	6732.2
25°	8288.4	8060.5	7902.5	7814.5	7488.2	7037.8	6786.5	6602.7	6481.0	6400.7	6431.9
27.5°	9127.3	8744.1	8345.3	8130.4	7488.2	6895.3	6486.2	6188.4	5989.1	5906.2	5947.7
30°	9927.3	9526.0	8938.3	8511.0	7470.1	6662.3	6002.0	5587.7	5354.7	5271.8	5321.0
32.5°	10611.0	10173.3	9567.5	8928.0	7426.1	6284.3	5401.2	4943.0	4717.7	4619.3	4668.5
35°	11245.4	10779.3	10199.3	9386.2	7309.6	5730.2	4741.0	4391.4	4140.3	3982.3	4034.1
37.5°	11895.2	11341.1	10797.3	9800.5	7099.9	5082.8	4233.6	3935.7	3640.6	3428.2	3485.2
40°	12602.2	11939.3	11436.9	10046.5	6755.5	4466.5	3840.0	3568.0	3254.8	3029.5	3073.5
42.5°	13428.1	12656.5	12149.0	10173.3	6284.3	4029.0	3583.6	3316.9	3021.7	2837.9	2874.1
45°	14290.3	13446.3	12798.9	10170.8	5758.7	3824.4	3500.8	3236.6	2910.4	2718.8	2749.9
47.5°	15194.0	14272.2	13360.8	10005.0	5302.8	3852.9	3454.1	3063.1	2703.2	2516.8	2542.7
50°	16100.3	15175.8	13904.5	9694.3	5108.7	3790.8	3280.6	2819.8	2395.1	2226.8	2237.2
52.5°	16998.8	16136.6	14373.2	9251.5	4911.9	3560.3	3058.0	2503.9	2268.2	2151.7	2151.7
55°	17902.4	17086.8	14883.3	8606.8	4419.9	3291.0	2685.1	2384.8	2167.3	2061.1	2050.7
57.5°	18808.6	18184.6	15367.5	7962.1	3801.1	2959.6	2480.5	2239.7	2066.3	1975.7	1960.1
60°	19751.2	19440.5	15867.2	7369.1	3190.0	2534.9	2330.3	2123.2	1947.2	1846.1	1838.4
62.5°	20722.2	20823.2	16258.2	6605.3	2628.1	2276.0	2195.8	1983.4	1812.5	1716.7	1714.1
65°	21700.9	22156.6	16514.6	5546.3	2131.0	2030.0	2050.7	1830.6	1657.1	1574.3	1571.7
67.5°	22438.9	23117.2	16442.0	4197.3	1747.7	1796.9	1869.5	1670.1	1507.0	1442.3	1444.8
70°	22521.7	23003.4	15727.4	2874.1	1463.0	1569.1	1667.5	1512.2	1343.9	1297.2	1299.8
72.5°	21418.7	21449.8	13736.2	1877.3	1237.7	1377.5	1455.2	1351.6	1188.5	1141.8	1139.3
75°	18526.5	17739.3	10085.3	1237.7	1035.8	1183.3	1255.8	1183.3	1025.4	1035.8	999.5
77.5°	14036.6	12563.3	6123.7	880.4	864.8	994.2	1092.6	1040.9	906.3	1017.6	895.8
80°	7231.9	6796.9	2731.7	657.6	683.6	794.9	898.5	831.2	717.2	683.6	624.0
82.5°	1657.1	1926.5	1077.2	471.3	494.6	572.3	686.1	624.0	515.3	435.0	429.8
85°	580.0	634.4	476.4	295.2	290.0	357.3	466.1	416.9	349.5	279.6	295.2
87.5°	183.9	240.8	178.7	119.1	124.3	160.5	214.9	196.8	163.1	106.2	111.3
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)