

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: P971427

Luminaire Tested: **NAV-SB6D-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63293.8 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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



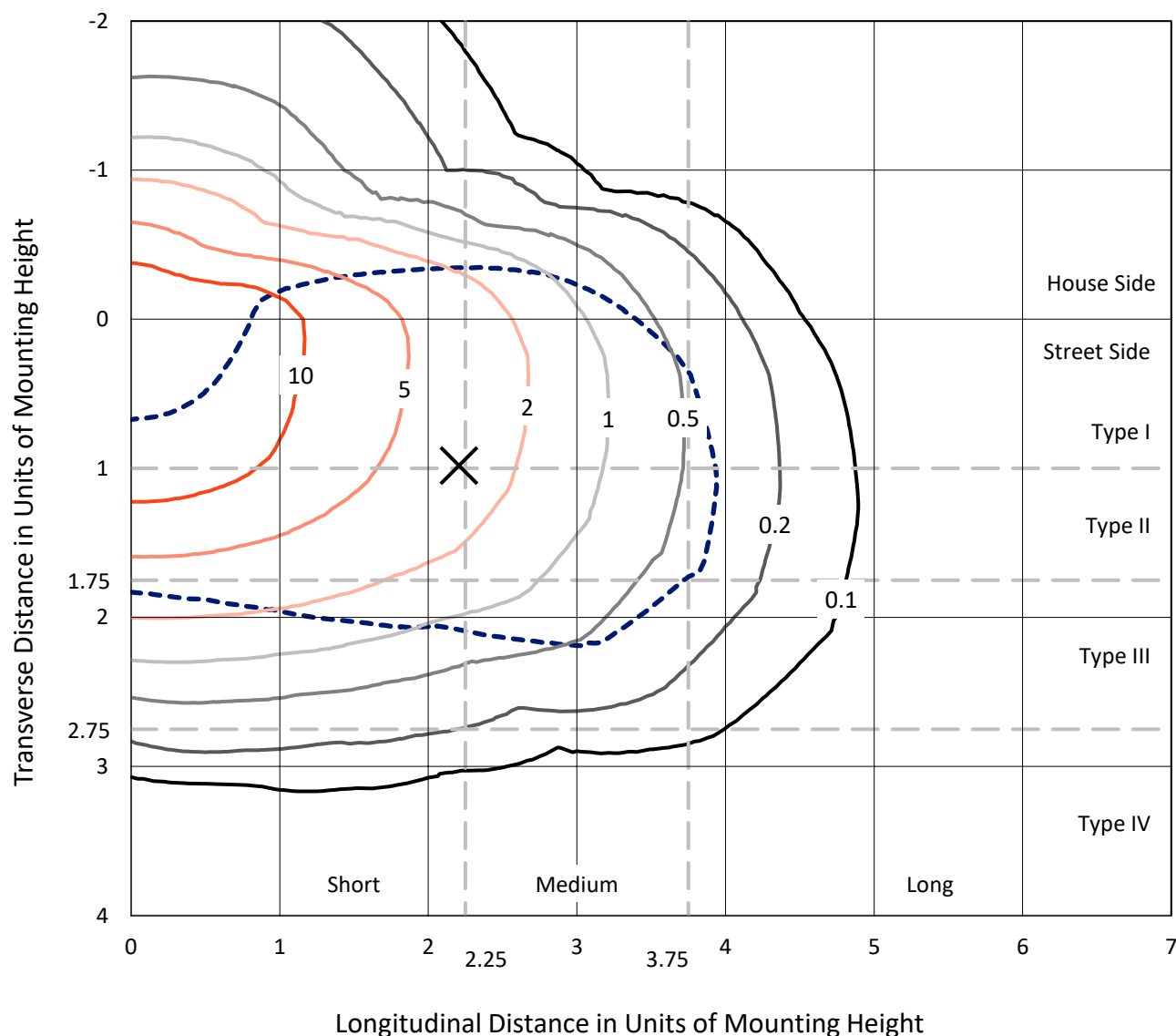
REPORT NUMBER: P971427

CATALOG NUMBER: NAV-SB6D-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

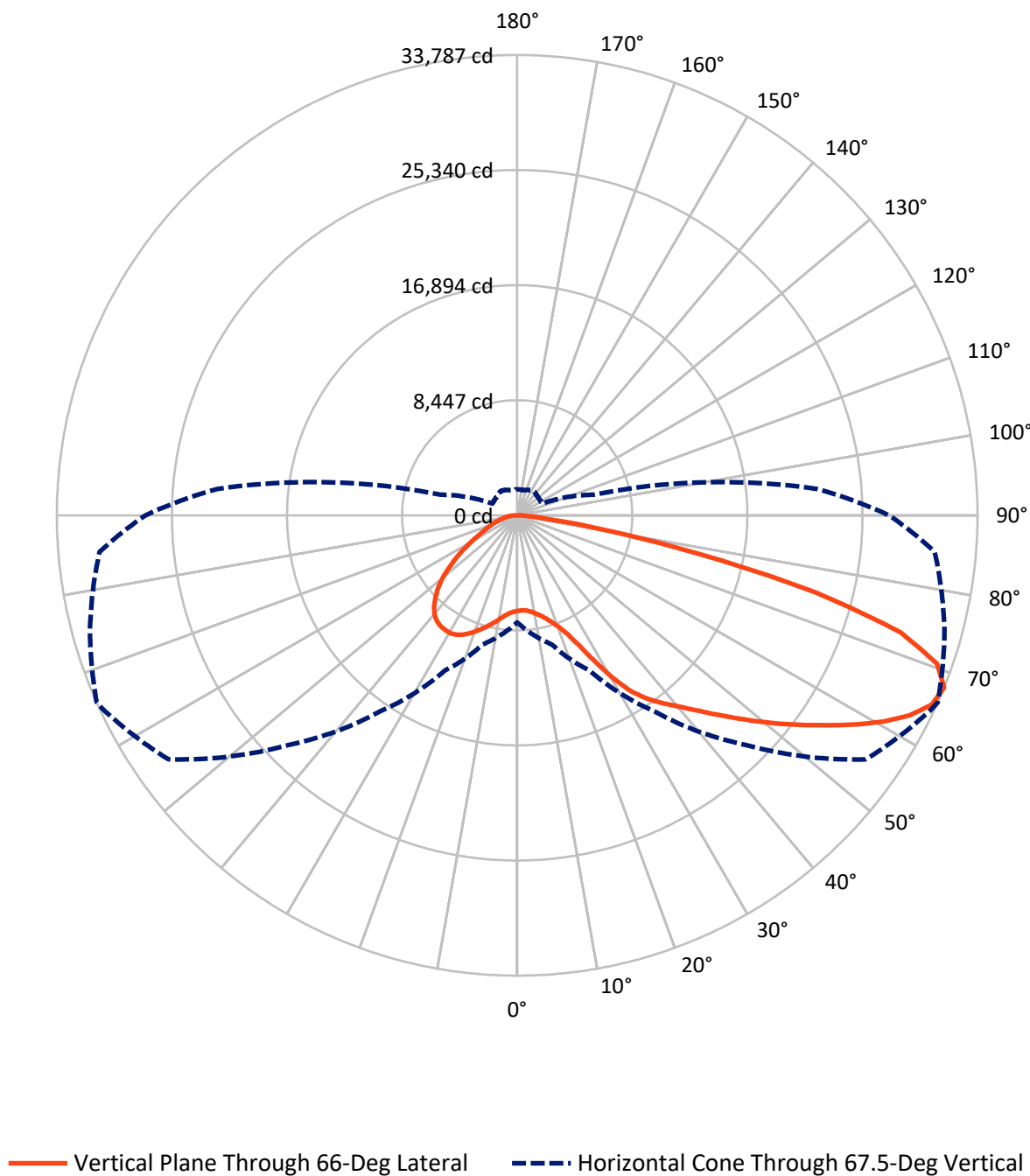


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc

Type III - Short - N/A

REPORT NUMBER: P971427
CATALOG NUMBER: NAV-SB6D-735-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P971427

CATALOG NUMBER: NAV-SB6D-735-U-T3

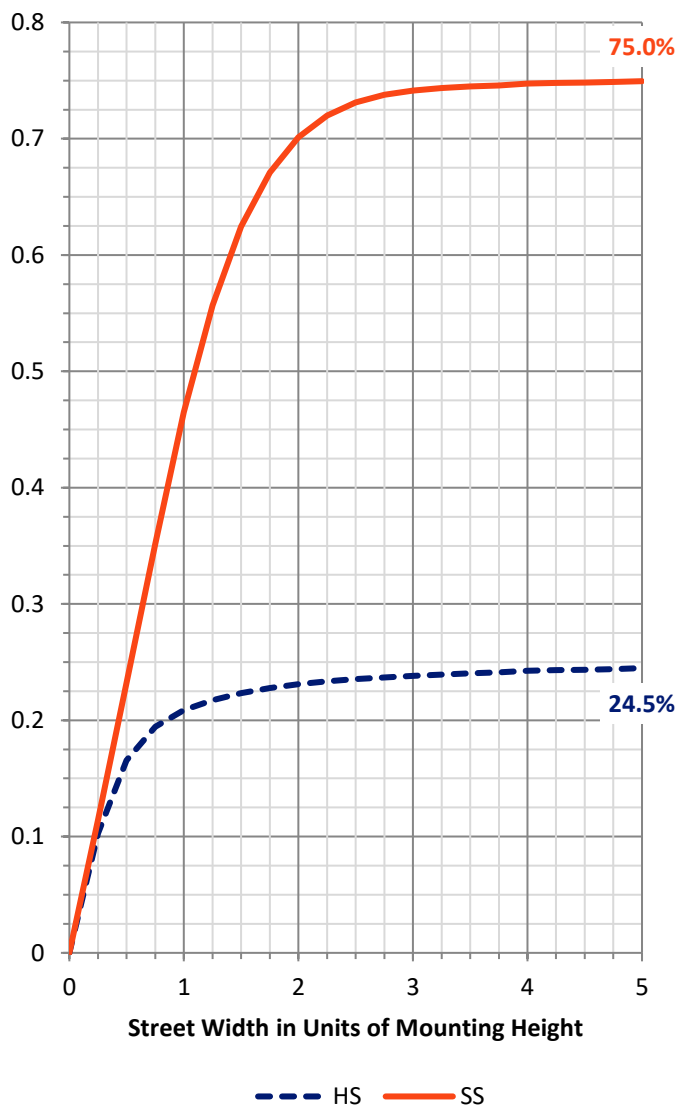
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15737.8	0.0	15737.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	47555.9	0.0	47555.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	63293.8	0.0	63293.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.0	1.1
10°-20°	2299.5	3.6
20°-30°	4432.2	7.0
30°-40°	7771.4	12.3
40°-50°	11553.5	18.3
50°-60°	14645.2	23.1
60°-70°	14329.9	22.6
70°-80°	6835.5	10.8
80°-90°	730.5	1.2
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°	63293.8	100.0
0°-180°	63293.8	100.0

Coefficient of Utilization



REPORT NUMBER: P971427

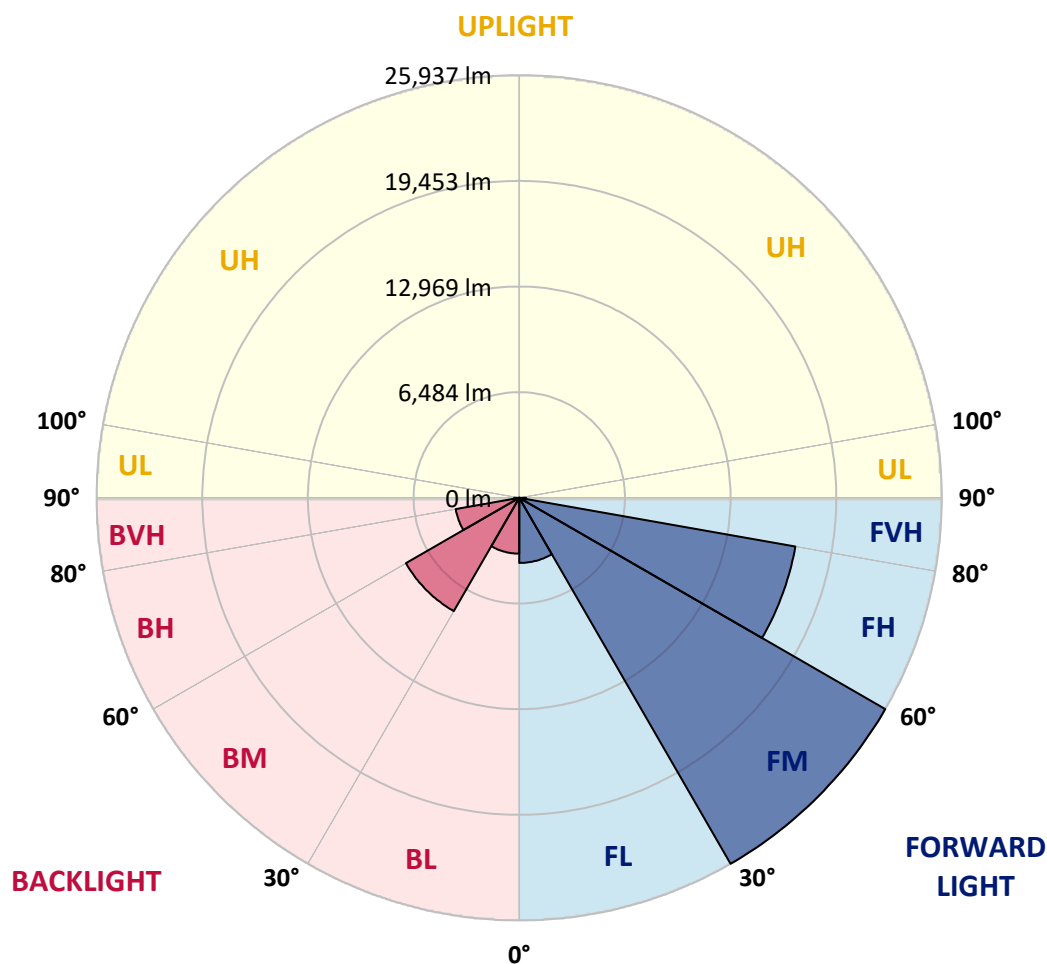
CATALOG NUMBER: NAV-SB6D-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3999.5	6.3			
FM	(30°-60°)	25937.2	41.0			
FH	(60°-80°)	17205.0	27.2			G5
FVH	(80°-90°)	414.2	0.7			G3/500
BL	(0°-30°)	3428.3	5.4	B4/5000		
BM	(30°-60°)	8032.8	12.7	B4/8500		
BH	(60°-80°)	3960.4	6.3	B4/5000		G4/5000
BVH	(80°-90°)	316.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P971427

CATALOG NUMBER: NAV-SB6D-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1
2.5°	6946.9	6986.8	6976.9	6960.3	6956.9	6963.5	6973.6	6983.5	6980.2	6996.9	7023.4
5°	6927.0	6966.9	6963.5	6963.5	6976.9	7003.5	7020.1	7036.7	7020.1	7040.1	7076.6
7.5°	6940.3	6970.2	6983.5	6996.9	7030.1	7080.0	7119.9	7156.4	7136.5	7159.8	7206.4
10°	7109.9	7133.2	7146.5	7146.5	7169.8	7226.2	7266.2	7332.7	7316.0	7352.6	7412.5
12.5°	7419.2	7442.4	7442.4	7429.2	7445.8	7482.4	7495.6	7568.8	7538.9	7598.7	7658.6
15°	7798.3	7844.8	7808.2	7785.0	7791.6	7828.2	7824.8	7881.4	7851.5	7901.4	7954.6
17.5°	8217.3	8277.2	8217.3	8213.9	8200.6	8240.6	8243.9	8293.8	8240.6	8277.2	8313.8
20°	8712.8	8795.9	8746.0	8762.6	8732.7	8749.4	8766.0	8839.2	8756.1	8782.6	8772.7
22.5°	9411.1	9510.9	9457.7	9520.9	9500.9	9487.6	9484.3	9614.0	9484.3	9494.3	9397.8
25°	10428.8	10548.5	10455.3	10541.8	10541.8	10585.1	10634.9	10801.2	10585.1	10521.8	10272.4
27.5°	11931.8	12051.5	11868.7	11921.9	11905.3	12011.7	11958.5	12370.8	12138.0	12034.9	11532.8
30°	13740.9	13953.7	13607.9	13594.6	13578.0	13747.6	13824.1	14096.7	13860.7	13757.6	13152.3
32.5°	15696.3	15919.2	15506.8	15387.1	15323.9	15427.0	15363.7	15583.3	15420.3	15260.7	14512.5
35°	17764.8	17984.2	17591.9	17359.1	17106.3	16890.2	16664.0	16720.6	16567.6	16324.9	15550.0
37.5°	19720.2	20122.6	19706.9	19457.5	18991.9	18569.5	17937.7	17675.0	17532.0	17309.2	16527.7
40°	21712.2	21941.6	21625.7	21412.9	20907.3	20245.6	19234.6	18679.3	18486.4	18270.2	17608.5
42.5°	23178.6	23398.2	23228.6	23082.3	22686.5	21918.3	20611.4	19916.4	19637.1	19394.2	18832.2
45°	24342.6	24505.6	24399.1	24452.3	24282.8	23537.8	22038.0	21243.2	20954.0	20658.0	20215.7
47.5°	24811.5	24984.4	25154.0	25469.9	25759.3	25210.6	23571.1	22679.9	22373.9	22071.3	21635.7
50°	24758.3	24934.6	25426.7	26098.4	26996.3	26813.5	25187.3	24209.6	23926.9	23581.0	23178.6
52.5°	24332.6	24532.1	25164.0	26281.4	27711.3	28014.0	26833.4	25789.2	25523.1	25110.8	24708.4
55°	23215.2	23334.9	24282.8	25865.7	27880.9	28852.0	28446.2	27471.8	27205.9	26630.5	26191.6
57.5°	21143.5	21316.4	22696.5	24744.9	27455.2	29420.7	29863.0	29241.1	28985.0	28157.0	27698.1
60°	18439.9	18715.9	20295.5	22862.7	26371.2	29417.3	31149.9	30980.3	30767.4	29660.0	29181.2
62.5°	15380.4	15699.6	17219.4	20202.3	24475.7	28582.6	31954.7	32436.8	32327.1	31046.8	30434.9
65°	11812.1	12031.7	13544.8	16760.5	21525.9	26790.1	32047.8	33431.2	33451.1	32101.0	31090.0
67.5°	7864.8	8496.6	9810.2	12577.1	17575.3	23860.4	31229.7	33594.2	33787.0	32463.5	30760.8
70°	3837.6	4669.0	5956.0	8174.1	12577.1	19367.7	29091.4	32257.3	32686.2	31405.9	28798.8
72.5°	1593.0	1862.3	2563.9	4033.8	7219.7	13069.2	24794.9	28632.5	29427.2	27827.7	24212.9
75°	1074.1	1163.9	1466.6	2068.4	3288.9	6444.8	17881.1	21349.6	22629.9	21017.1	17179.5
77.5°	828.1	884.6	1067.4	1446.6	1955.4	2437.6	9570.7	12866.3	13528.1	12523.8	8938.9
80°	651.8	695.1	798.2	1054.2	1386.7	1303.6	3262.3	5829.6	6212.0	5211.0	2873.2
82.5°	565.3	582.0	571.9	714.9	921.2	761.6	1070.8	2151.6	2374.4	1722.6	937.8
85°	409.1	455.6	475.5	442.3	488.8	385.7	439.0	761.6	838.0	748.2	528.8
87.5°	166.3	246.1	302.6	286.0	179.6	109.8	136.3	222.8	256.0	279.3	172.9
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: P971427

CATALOG NUMBER: NAV-SB6D-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1	7020.1
2.5°	7026.8	7050.1	7066.7	7086.6	7100.0	7119.9	7159.8	7183.1	7186.4	7203.0	7199.7
5°	7089.9	7123.2	7159.8	7213.0	7272.9	7322.7	7399.3	7452.5	7472.4	7489.0	7485.7
7.5°	7226.2	7272.9	7339.4	7432.5	7518.9	7585.4	7678.6	7741.7	7805.0	7828.2	7831.5
10°	7429.2	7495.6	7592.1	7718.5	7811.6	7898.0	7994.5	8047.7	8110.8	8137.5	8150.8
12.5°	7681.9	7751.8	7878.0	8054.3	8140.8	8200.6	8233.9	8220.6	8233.9	8257.2	8263.9
15°	7971.2	8047.7	8190.7	8380.2	8440.1	8386.9	8313.8	8247.3	8237.2	8243.9	8267.1
17.5°	8313.8	8370.3	8536.5	8696.2	8652.9	8433.5	8273.8	8167.4	8114.2	8097.6	8120.9
20°	8792.6	8792.6	8929.0	9028.7	8739.4	8367.0	8117.5	7944.6	7834.9	7788.3	7778.3
22.5°	9374.5	9321.3	9407.9	9338.0	8722.8	8180.7	7834.9	7535.6	7369.3	7302.8	7292.8
25°	10112.9	10049.6	10026.3	9594.0	8603.0	7884.7	7322.7	6960.3	6813.9	6777.4	6784.0
27.5°	11226.8	11067.2	10764.7	9733.7	8383.6	7419.2	6724.1	6388.3	6305.1	6308.5	6318.4
30°	12710.0	12390.8	11649.2	9757.0	8024.4	6760.7	6112.3	5872.8	5832.9	5849.6	5906.0
32.5°	14083.5	13780.8	12553.7	9650.6	7472.4	6115.6	5563.6	5403.9	5344.0	5364.0	5390.6
35°	15160.9	15077.7	13391.7	9500.9	6794.0	5510.3	5071.4	4935.1	4818.6	4792.1	4812.0
37.5°	16178.5	16145.3	14020.3	9291.4	6122.2	5081.3	4675.6	4496.1	4326.4	4233.4	4236.6
40°	17295.8	17262.6	14432.6	8968.9	5527.0	4708.8	4319.9	4083.7	3874.2	3704.6	3721.3
42.5°	18552.9	18356.7	14628.8	8506.6	5021.5	4392.9	4030.5	3711.2	3435.2	3279.0	3288.9
45°	19926.3	19484.0	14625.5	7918.0	4595.8	4103.7	3721.3	3268.9	3012.9	2866.6	2860.0
47.5°	21382.9	20561.5	14445.9	7266.2	4183.4	3784.4	3242.4	2896.5	2726.9	2637.1	2617.1
50°	22886.0	21569.2	14140.0	6518.0	3761.1	3422.0	2943.1	2706.9	2577.3	2494.1	2464.2
52.5°	24299.4	22483.7	13770.9	5670.0	3332.2	3069.5	2810.0	2627.2	2490.8	2397.7	2357.8
55°	25612.9	23271.8	13248.7	4802.0	2983.0	2833.3	2746.9	2593.9	2437.6	2327.9	2284.6
57.5°	26780.2	23783.9	12347.6	3987.2	2733.6	2670.3	2680.4	2537.4	2357.8	2264.6	2204.8
60°	27751.3	24159.7	11014.0	3232.3	2530.7	2510.7	2577.3	2430.9	2221.4	2115.0	2068.4
62.5°	28333.2	24153.0	9377.9	2647.1	2357.8	2364.5	2440.9	2297.9	2085.1	1985.3	1955.4
65°	28283.3	23561.1	7582.1	2264.6	2191.4	2198.1	2297.9	2151.6	1972.0	1912.1	1908.9
67.5°	27282.3	22117.9	5816.3	2015.3	2008.6	2038.5	2155.0	2051.8	1902.2	1895.5	1905.5
70°	24572.0	19121.6	4190.1	1815.7	1819.1	1862.3	2015.3	1988.6	1865.6	1878.9	1875.5
72.5°	19703.6	14579.0	2813.3	1606.2	1609.6	1679.4	1882.2	1938.8	1829.0	2005.3	2031.9
75°	13122.4	9091.9	1809.0	1383.4	1386.7	1476.5	1765.9	1842.3	1729.3	1998.6	2015.3
77.5°	6305.1	4087.0	1310.3	1163.9	1163.9	1247.0	1526.4	1649.4	1473.2	1553.0	1423.3
80°	2178.2	1536.4	1030.9	937.8	917.8	974.4	1287.0	1430.0	1270.4	1170.6	1097.4
82.5°	858.0	798.2	828.1	728.3	661.7	698.3	1001.0	1180.6	934.5	844.7	841.3
85°	492.2	518.8	585.3	482.2	382.4	429.0	734.9	848.0	705.0	621.9	635.2
87.5°	133.0	182.9	269.4	249.4	172.9	182.9	349.2	468.9	405.7	312.6	322.6
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)