

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: P962620

Luminaire Tested: **NAV-SB2C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10817.8 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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



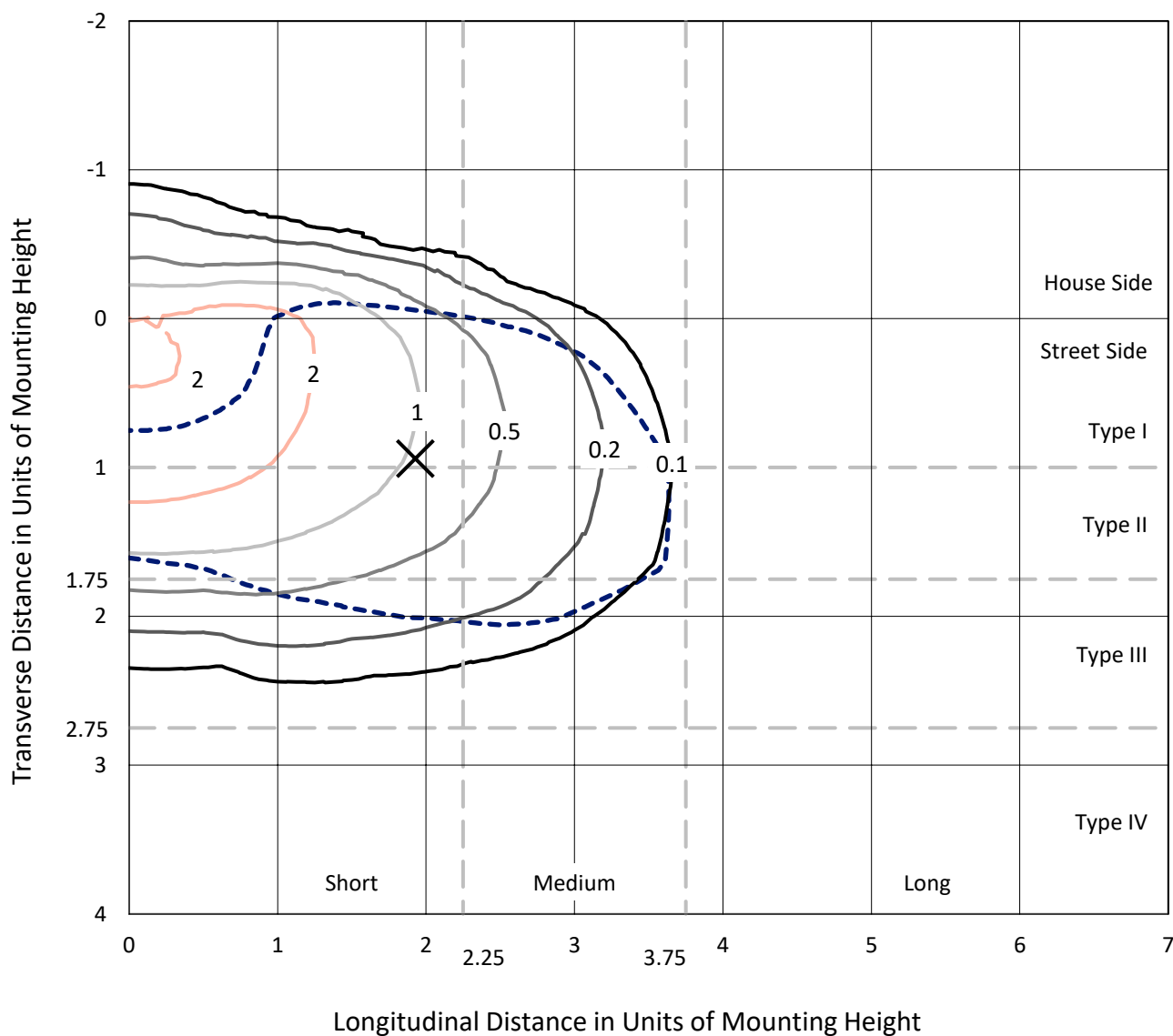
REPORT NUMBER: P962620

CATALOG NUMBER: NAV-SB2C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



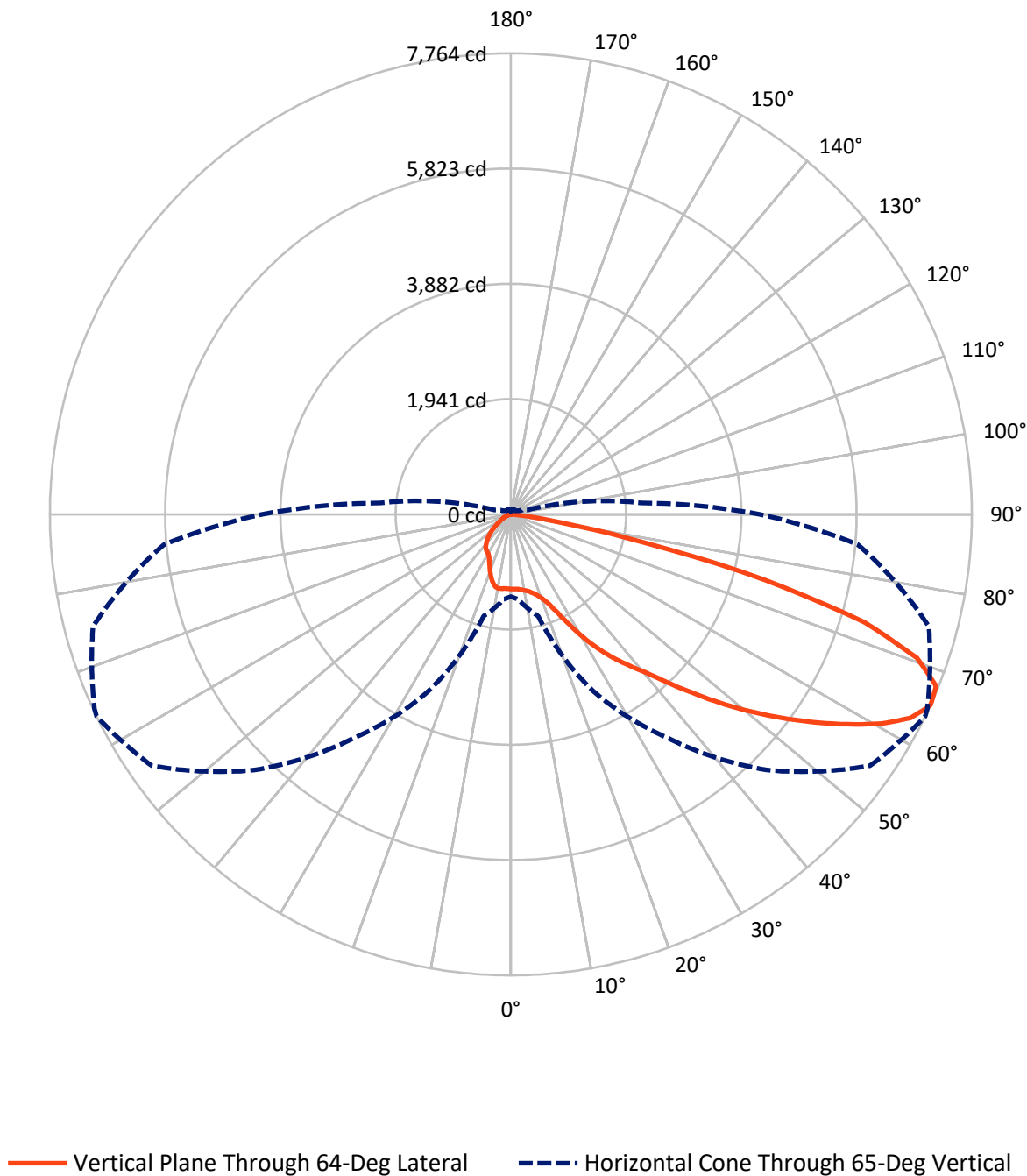
Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

Type III - Short - N/A

REPORT NUMBER: P962620

CATALOG NUMBER: NAV-SB2C-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P962620

CATALOG NUMBER: NAV-SB2C-830-U-T3-HSS

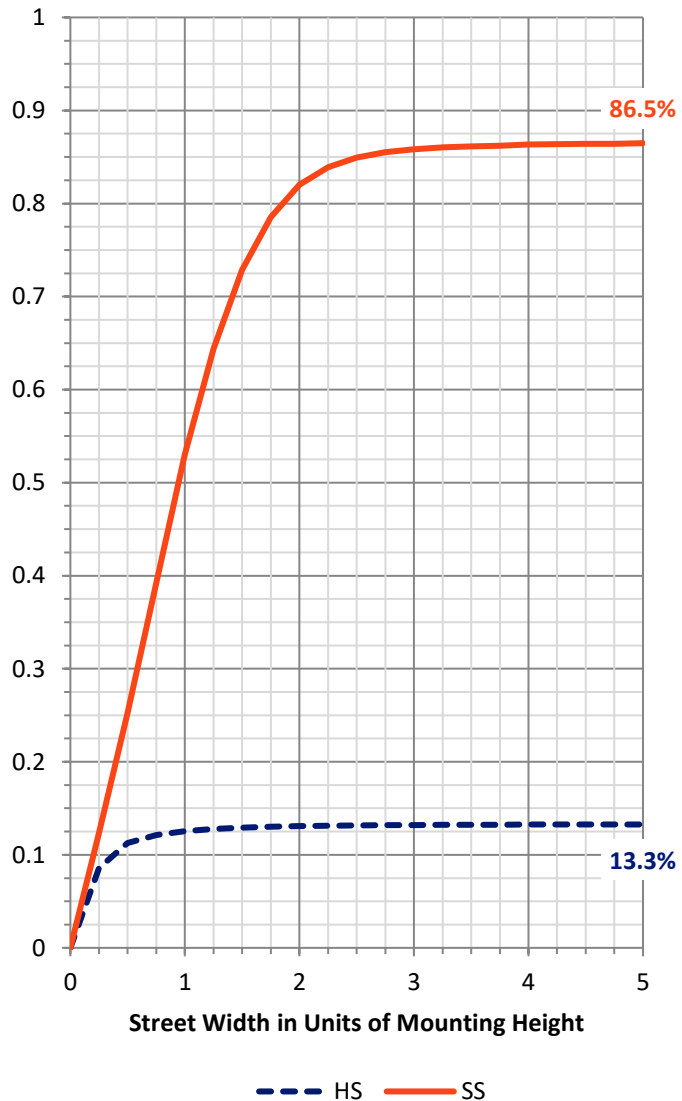
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1446.7	0.0	1446.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9371.2	0.0	9371.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	10817.8	0.0	10817.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.1
10°-20°	314.9	2.9
20°-30°	596.6	5.5
30°-40°	1207.3	11.2
40°-50°	2056.6	19.0
50°-60°	2796.8	25.9
60°-70°	2626.4	24.3
70°-80°	1052.2	9.7
80°-90°	51.0	0.5
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°	10817.8	100.0
0°-180°	10817.8	100.0

Coefficient of Utilization



REPORT NUMBER: P962620

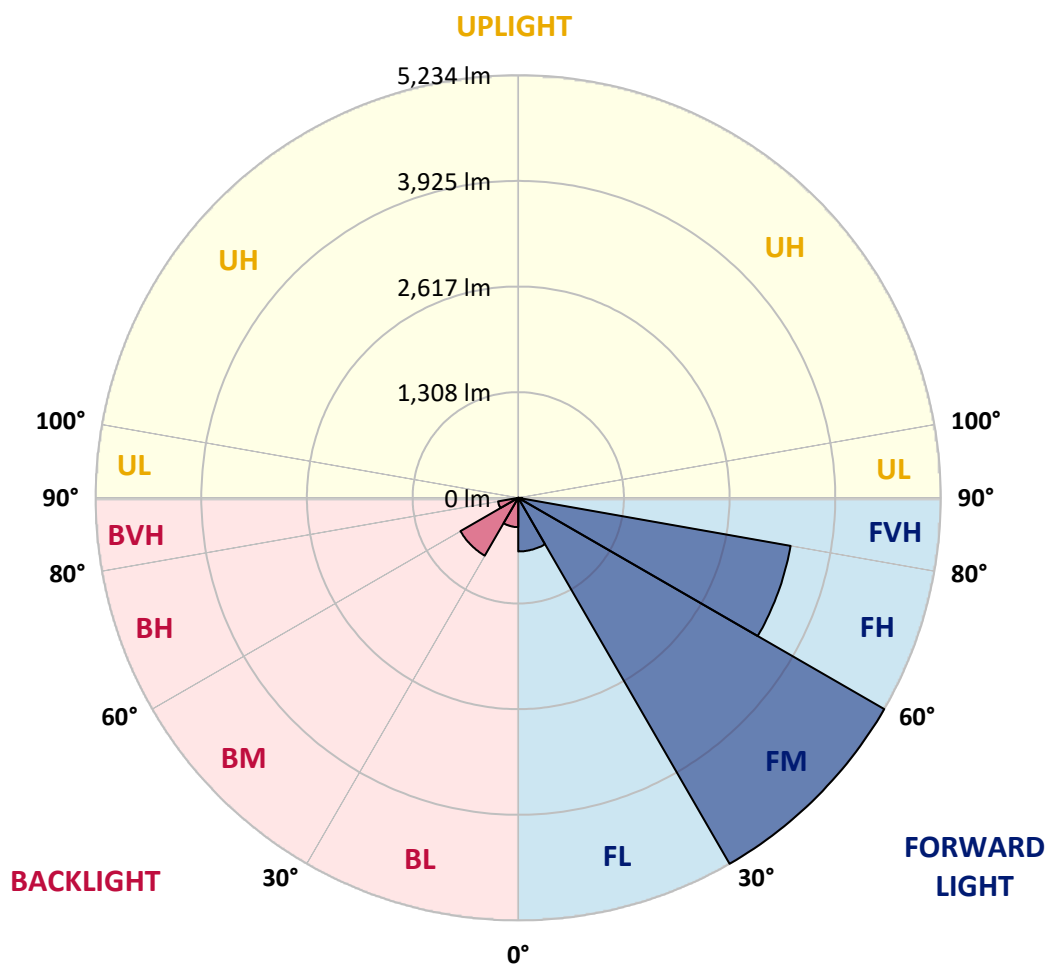
CATALOG NUMBER: NAV-SB2C-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.3	6.1			
FM	(30°-60°)	5233.7	48.4			
FH	(60°-80°)	3424.7	31.7			G2/5000
FVH	(80°-90°)	48.5	0.4			G1/100
BL	(0°-30°)	363.2	3.4	B1/500		
BM	(30°-60°)	827.1	7.6	B1/1000		
BH	(60°-80°)	253.9	2.3	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P962620

CATALOG NUMBER: NAV-SB2C-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2
2.5°	1253.9	1262.6	1260.4	1258.2	1257.5	1258.9	1259.7	1258.9	1258.9	1258.9	1259.7
5°	1229.9	1237.2	1237.2	1242.3	1249.5	1258.2	1264.7	1266.2	1267.6	1269.9	1269.2
7.5°	1184.3	1190.0	1194.4	1211.1	1229.2	1252.4	1272.0	1282.2	1283.6	1291.6	1294.5
10°	1153.1	1160.3	1167.6	1185.0	1211.1	1245.9	1279.3	1303.9	1307.6	1326.4	1335.1
12.5°	1151.6	1158.9	1168.3	1187.2	1217.6	1254.6	1295.2	1330.8	1337.3	1364.8	1382.9
15°	1166.9	1175.6	1184.3	1207.4	1240.1	1285.0	1328.6	1372.8	1379.3	1418.5	1438.1
17.5°	1198.0	1209.6	1216.2	1239.3	1274.2	1324.2	1381.5	1432.2	1438.1	1483.8	1508.4
20°	1259.7	1273.5	1275.6	1294.5	1328.6	1382.2	1450.4	1513.5	1520.8	1573.0	1600.5
22.5°	1387.3	1406.9	1389.5	1398.9	1429.4	1483.1	1557.0	1636.8	1647.0	1706.4	1731.0
25°	1612.1	1639.7	1594.7	1578.8	1591.8	1647.7	1740.4	1841.3	1852.9	1900.8	1913.1
27.5°	2053.8	2018.2	1950.1	1883.3	1844.2	1876.1	1980.5	2105.2	2119.8	2166.1	2151.7
30°	2538.9	2507.8	2415.6	2267.7	2174.8	2169.8	2266.3	2405.5	2422.2	2466.5	2422.2
32.5°	3024.8	2995.0	2895.0	2713.0	2551.9	2472.2	2538.9	2693.4	2702.1	2730.4	2665.1
35°	3502.7	3472.3	3372.1	3185.8	2987.9	2806.6	2793.5	2967.6	2970.4	3000.2	2903.0
37.5°	3983.6	3958.1	3851.5	3668.8	3473.7	3223.5	3102.5	3227.1	3230.8	3259.8	3158.9
40°	4326.5	4337.5	4264.2	4122.8	3955.3	3681.9	3449.0	3503.4	3481.7	3530.3	3470.1
42.5°	4621.0	4642.7	4579.0	4507.8	4410.7	4169.9	3878.4	3869.0	3834.1	3860.3	3797.9
45°	4875.5	4893.7	4836.4	4819.7	4817.5	4648.6	4347.6	4291.1	4242.5	4237.3	4162.6
47.5°	4969.1	5003.9	5028.5	5084.4	5193.2	5122.1	4832.8	4745.0	4690.6	4650.7	4532.5
50°	5004.7	5041.6	5125.7	5288.2	5545.7	5576.1	5315.8	5217.1	5150.4	5077.8	4903.8
52.5°	4956.8	5022.8	5135.9	5409.3	5782.7	5940.2	5779.2	5692.8	5616.7	5498.5	5240.3
55°	4674.6	4740.6	4972.0	5407.8	5901.0	6195.4	6217.1	6178.7	6093.1	5906.8	5512.2
57.5°	4080.0	4177.9	4544.1	5223.6	5898.8	6415.2	6646.5	6674.1	6578.3	6311.4	5726.2
60°	3256.1	3388.9	3835.7	4815.3	5716.7	6534.1	7022.9	7160.6	7059.2	6710.3	5899.5
62.5°	2272.0	2425.8	2848.6	4175.7	5300.5	6448.5	7297.7	7552.3	7475.4	7067.1	5966.2
65°	1385.9	1435.2	1776.0	3285.9	4592.7	6090.2	7382.6	7764.1	7738.6	7285.4	5867.6
67.5°	923.2	964.5	1062.4	2253.3	3565.1	5374.5	7179.5	7727.1	7734.3	7249.8	5506.5
70°	556.3	591.7	655.6	1310.5	2310.5	4254.1	6550.8	7255.7	7297.7	6774.8	4821.9
72.5°	229.2	253.1	311.1	594.0	1196.6	2700.0	5216.4	6229.5	6327.4	5696.4	3700.8
75°	129.8	142.2	182.8	298.1	519.3	1258.2	3159.7	4422.3	4566.6	3926.3	2226.4
77.5°	86.3	92.1	118.2	192.9	292.2	429.3	1350.3	2304.0	2579.5	2144.4	963.8
80°	58.0	63.1	81.2	129.0	190.0	184.2	430.1	853.5	1050.1	736.8	234.9
82.5°	39.2	39.9	58.0	84.9	120.3	89.2	126.9	265.5	333.6	213.2	89.2
85°	22.4	21.7	42.7	49.3	53.7	37.0	38.4	79.7	104.4	89.9	50.7
87.5°	2.9	4.3	16.7	13.0	7.3	8.0	8.0	13.7	20.3	21.7	10.9
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: P962620

CATALOG NUMBER: NAV-SB2C-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2	1258.2
2.5°	1259.7	1258.9	1256.8	1254.6	1249.5	1246.6	1248.0	1246.6	1245.9	1246.6	1249.5
5°	1269.2	1266.9	1261.2	1253.9	1243.7	1231.4	1223.4	1211.9	1200.9	1194.4	1195.9
7.5°	1294.5	1292.3	1284.3	1264.0	1231.4	1179.9	1132.7	1091.4	1060.3	1042.1	1042.8
10°	1335.1	1331.5	1319.2	1274.2	1188.6	1076.2	982.7	905.1	854.3	830.4	828.2
12.5°	1382.9	1378.6	1356.9	1264.7	1107.4	931.9	802.8	716.5	669.3	648.3	646.2
15°	1439.5	1433.8	1390.9	1219.8	989.2	772.3	654.2	589.6	559.1	540.3	541.0
17.5°	1509.8	1499.7	1416.3	1152.3	860.8	650.5	562.7	514.1	487.4	469.2	467.7
20°	1601.3	1584.5	1436.6	1071.8	742.6	573.6	501.1	460.5	440.2	424.2	421.4
22.5°	1728.9	1705.0	1461.2	984.8	659.2	520.7	455.4	425.7	409.0	390.9	388.0
25°	1887.0	1858.7	1491.8	904.4	601.9	475.0	422.1	397.4	377.8	356.8	354.6
27.5°	2108.1	2057.4	1528.0	838.3	552.6	435.8	391.7	364.1	341.5	324.2	320.5
30°	2354.7	2271.3	1559.9	798.5	507.7	399.5	351.7	324.2	303.1	290.8	288.6
32.5°	2588.2	2475.2	1581.0	781.0	467.0	358.2	308.2	278.5	262.5	258.9	261.1
35°	2808.7	2659.4	1578.8	764.3	430.8	316.9	265.5	234.9	222.6	224.8	224.8
37.5°	3062.5	2855.9	1563.5	738.3	401.1	279.2	228.5	201.6	190.8	191.5	194.3
40°	3357.7	3082.8	1554.1	688.9	368.4	244.4	198.0	176.2	168.2	165.3	164.6
42.5°	3672.5	3302.6	1555.5	633.1	327.8	213.2	176.9	158.8	151.6	149.3	148.6
45°	3988.6	3512.2	1557.7	575.1	285.1	189.3	161.7	146.5	142.2	139.2	139.2
47.5°	4285.9	3690.5	1517.1	512.7	242.9	171.2	149.3	139.2	135.6	132.0	132.0
50°	4563.0	3809.5	1419.2	440.2	209.6	156.6	140.0	132.7	129.0	125.5	125.5
52.5°	4778.3	3828.4	1257.5	365.5	186.3	145.8	134.2	127.6	123.3	119.6	118.9
55°	4874.1	3710.2	1027.6	295.9	168.2	136.3	128.3	121.9	116.7	113.2	112.4
57.5°	4849.5	3461.4	801.3	237.9	150.9	126.9	121.2	116.7	110.9	105.2	104.4
60°	4728.3	3128.5	604.1	198.0	134.9	116.7	113.2	109.5	101.6	92.9	91.3
62.5°	4518.7	2710.1	430.8	163.9	117.5	105.2	103.7	100.8	89.2	73.3	71.8
65°	4198.2	2201.7	290.1	136.3	100.8	92.1	92.9	87.7	72.6	54.4	52.9
67.5°	3729.8	1610.0	185.6	111.7	84.2	76.9	77.6	74.7	61.6	46.4	44.3
70°	3132.9	1066.0	121.2	84.9	67.4	59.4	63.9	64.6	52.2	37.7	36.3
72.5°	2296.7	629.5	84.9	63.1	49.3	41.3	52.2	53.7	42.0	28.3	26.9
75°	1309.0	298.8	63.9	45.7	30.4	29.0	40.6	40.6	29.0	18.9	17.4
77.5°	549.7	124.7	45.0	29.7	17.4	16.7	27.6	25.4	14.6	8.7	8.7
80°	158.8	55.9	23.9	14.6	7.3	6.6	10.9	8.0	3.6	1.4	1.4
82.5°	62.3	24.7	9.4	5.8	2.9	2.9	1.4	0.0	0.0	0.0	0.0
85°	37.0	10.1	4.3	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)