

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: P962615

Luminaire Tested: **NAV-SB2C-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-830-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11678.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

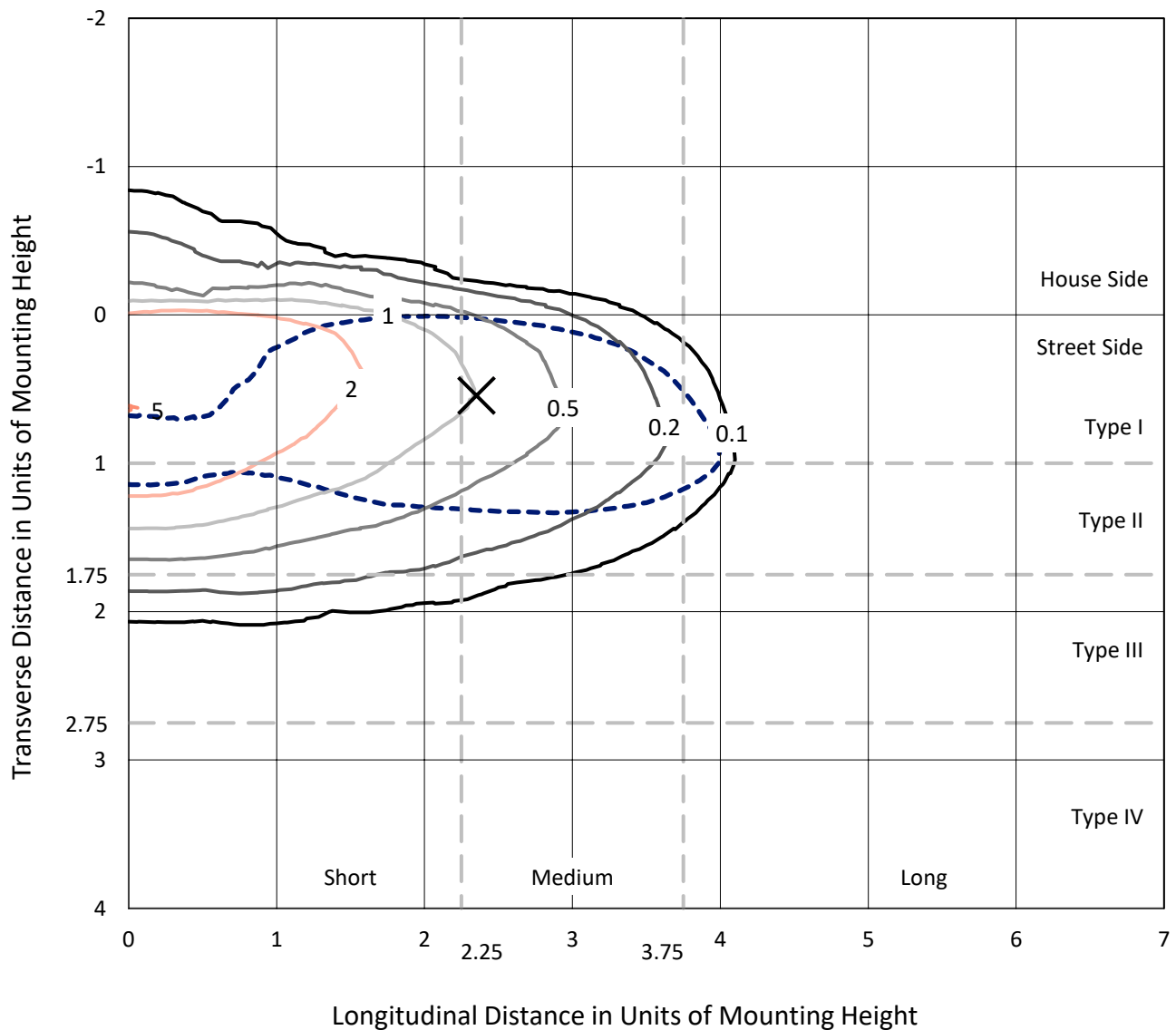


REPORT NUMBER: P962615

CATALOG NUMBER: NAV-SB2C-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

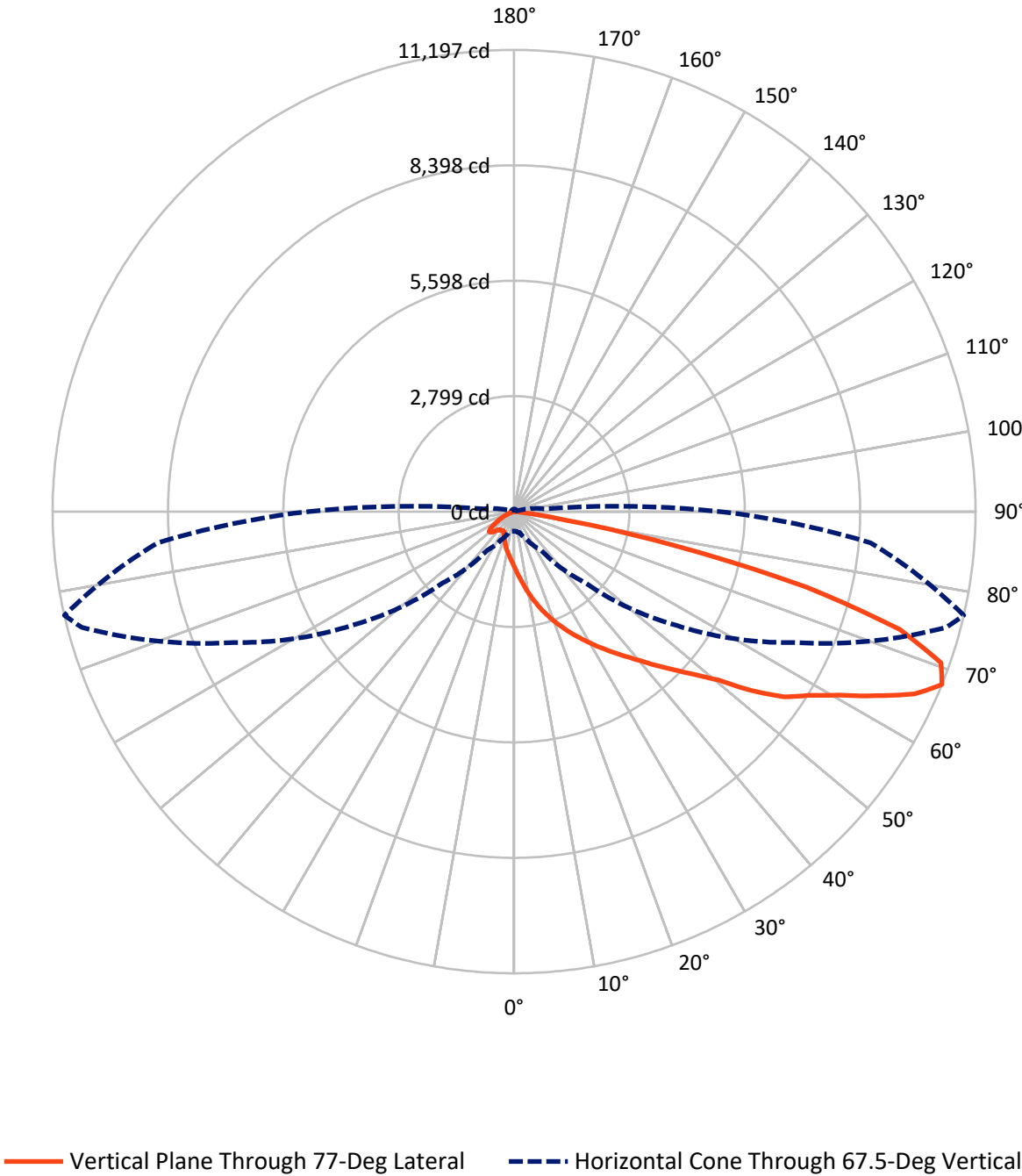
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type II - Medium - N/A

REPORT NUMBER: P962615
CATALOG NUMBER: NAV-SB2C-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P962615

CATALOG NUMBER: NAV-SB2C-830-U-T2R-HSS

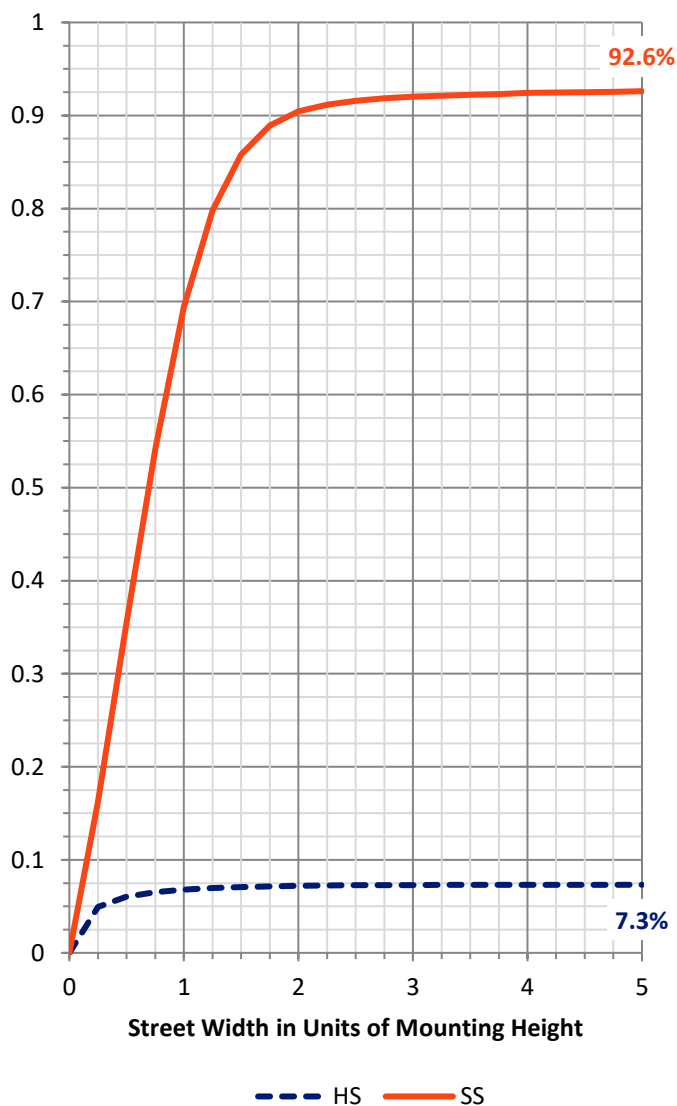
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	859.2	0.0	859.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	10819.6	0.0	10819.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	11678.9	0.0	11678.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	1.2
10°-20°	481.4	4.1
20°-30°	928.9	8.0
30°-40°	1612.6	13.8
40°-50°	2341.4	20.0
50°-60°	2688.8	23.0
60°-70°	2334.4	20.0
70°-80°	1099.5	9.4
80°-90°	54.4	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°	11678.9	100.0
0°-180°	11678.9	100.0

Coefficient of Utilization



REPORT NUMBER: P962615

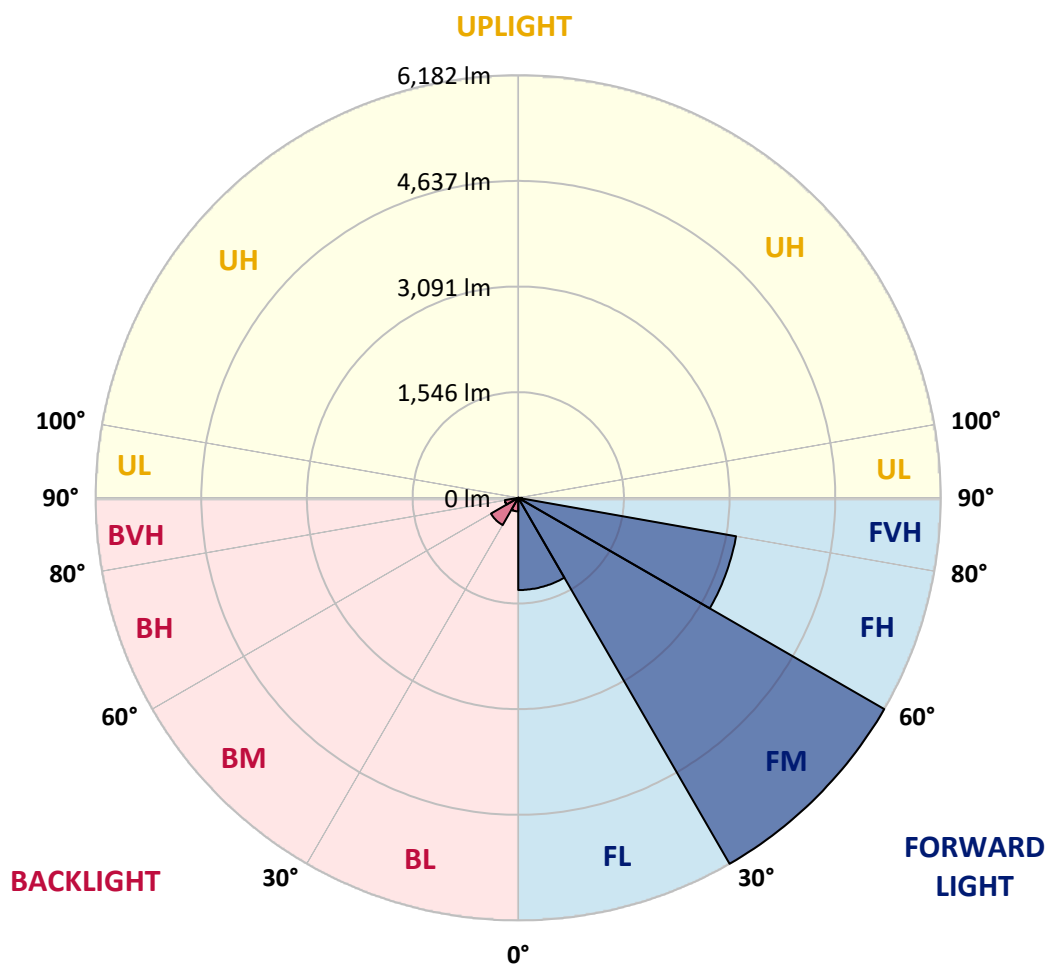
CATALOG NUMBER: NAV-SB2C-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.8	11.5			
FM	(30°-60°)	6182.5	52.9			
FH	(60°-80°)	3235.0	27.7			G2/5000
FVH	(80°-90°)	53.4	0.5			G1/100
BL	(0°-30°)	198.9	1.7	B1/500		
BM	(30°-60°)	460.4	3.9	B1/1000		
BH	(60°-80°)	198.9	1.7	B1/500		G1/500
BVH	(80°-90°)	1.0	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 II Medium



REPORT NUMBER: P962615

CATALOG NUMBER: NAV-SB2C-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1864.6	1876.2	1859.5	1827.6	1779.7	1748.5	1672.4	1600.5	1520.8	1495.4	1415.6
5°	2272.8	2283.0	2264.1	2229.4	2165.5	2104.6	2004.5	1854.4	1698.5	1648.4	1507.1
7.5°	2575.3	2581.1	2573.8	2541.9	2481.0	2412.1	2300.4	2122.8	1891.4	1836.3	1619.4
10°	2792.8	2811.7	2809.5	2797.2	2756.5	2700.8	2581.8	2379.4	2107.5	2036.5	1746.3
12.5°	2937.1	2958.1	2970.6	2998.1	2995.9	2960.4	2856.0	2642.0	2322.9	2239.5	1889.2
15°	2979.3	3001.7	3048.9	3112.6	3169.2	3187.3	3114.2	2899.4	2560.0	2453.4	2035.8
17.5°	2955.3	2990.1	3046.7	3147.5	3271.5	3353.4	3345.5	3148.2	2775.4	2653.6	2179.3
20°	3008.3	3041.6	3085.9	3170.7	3315.1	3463.7	3523.1	3386.1	2989.4	2861.7	2330.1
22.5°	3301.2	3295.4	3299.8	3313.5	3399.8	3547.1	3669.6	3602.2	3201.2	3070.6	2489.7
25°	3765.3	3739.3	3695.0	3620.3	3598.6	3669.6	3797.3	3793.6	3424.5	3284.5	2652.9
27.5°	4297.7	4293.3	4189.6	4009.8	3908.2	3880.6	3941.6	3980.1	3645.7	3496.3	2816.8
30°	4807.6	4819.1	4679.1	4478.9	4292.6	4184.6	4129.4	4157.0	3870.5	3724.7	2985.7
32.5°	5251.4	5263.7	5111.4	4877.2	4646.5	4515.9	4399.9	4331.8	4115.7	3956.8	3171.5
35°	5626.3	5638.6	5463.9	5205.0	4959.1	4840.9	4709.6	4523.2	4362.2	4214.3	3378.1
37.5°	5961.4	5957.7	5723.5	5462.4	5220.9	5127.4	5058.5	4759.0	4616.1	4473.2	3607.3
40°	6159.3	6174.6	5974.4	5686.5	5452.3	5384.1	5379.7	5051.2	4909.0	4770.6	3858.2
42.5°	6217.3	6244.2	6099.2	5862.7	5650.2	5576.2	5690.1	5367.4	5249.9	5115.1	4141.7
45°	6112.9	6139.0	6073.0	5909.1	5785.1	5737.2	5957.0	5695.2	5613.9	5480.6	4461.6
47.5°	5808.4	5841.0	5857.0	5822.1	5820.7	5869.3	6196.3	6040.4	6046.2	5909.8	4832.2
50°	5218.7	5273.8	5420.3	5543.6	5734.4	5973.7	6429.1	6414.7	6533.6	6416.1	5315.1
52.5°	4146.8	4225.2	4730.0	5067.2	5495.7	5954.1	6685.2	7015.1	7388.6	7216.7	5996.1
55°	3332.4	3332.4	3742.9	4373.9	5030.2	5825.0	6796.8	7405.3	7970.9	7930.3	6475.5
57.5°	2716.7	2749.4	3011.1	3568.8	4356.5	5517.5	6865.8	7650.4	8440.2	8410.4	6944.1
60°	1676.7	1747.1	2241.7	2792.1	3589.9	4969.9	6822.2	7898.4	9009.4	9033.4	7508.2
62.5°	944.2	970.4	1190.8	2008.9	2791.4	4233.9	6489.3	8036.9	9737.6	9839.2	8089.9
65°	652.0	665.0	749.9	1250.3	1934.9	3370.8	5838.8	7950.6	10467.2	10672.4	8583.0
67.5°	473.6	480.1	533.0	763.6	1148.0	2444.0	4819.1	7515.5	10853.7	11196.8	8677.3
70°	364.1	368.4	406.8	501.8	678.0	1508.5	3500.0	6650.3	10573.8	10983.5	8194.4
72.5°	295.9	300.2	329.9	371.4	449.7	892.1	2121.2	5400.7	9338.0	9780.3	6975.9
75°	249.5	255.3	282.1	308.9	352.5	573.0	995.0	3761.0	7022.4	7312.5	4851.0
77.5°	138.5	127.6	229.2	256.0	297.4	362.6	465.6	2213.4	3932.9	4013.4	2152.5
80°	86.3	89.2	182.0	205.9	228.5	182.8	213.2	852.2	1363.5	1295.3	417.0
82.5°	5.1	11.6	140.0	148.6	156.6	78.3	80.5	289.4	328.5	301.7	74.0
85°	0.0	0.0	63.9	51.5	54.4	22.4	23.2	67.4	44.3	47.9	14.6
87.5°	0.0	0.0	0.0	1.4	0.0	2.2	4.3	5.8	2.2	2.9	5.1
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: P962615

CATALOG NUMBER: NAV-SB2C-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1364.9	1314.2	1211.1	1110.3	1028.4	952.2	897.8	846.3	820.2	818.8	817.3
5°	1406.2	1299.6	1093.7	911.6	765.2	647.6	571.4	517.1	489.5	480.1	478.7
7.5°	1464.2	1304.0	990.7	737.6	565.0	464.1	420.7	403.2	397.4	390.9	389.4
10°	1537.5	1314.2	898.5	594.0	445.3	394.5	377.1	369.8	365.5	361.2	359.7
12.5°	1619.4	1323.6	807.2	493.1	391.7	365.5	353.2	344.5	338.7	333.6	332.2
15°	1699.2	1329.3	712.2	422.8	364.1	343.1	329.9	320.5	312.5	306.8	306.1
17.5°	1778.3	1337.3	623.0	380.8	341.5	320.5	307.5	295.9	289.4	282.8	282.1
20°	1866.0	1335.9	538.8	351.0	319.1	298.1	284.3	273.4	266.9	259.6	258.9
22.5°	1947.2	1328.6	464.8	325.6	295.9	275.6	260.3	249.5	242.9	237.2	236.5
25°	2040.8	1322.8	403.2	302.4	274.1	253.8	237.2	227.0	219.8	214.6	213.9
27.5°	2130.7	1314.2	358.2	281.4	253.1	233.5	217.6	205.9	199.5	195.8	195.8
30°	2219.2	1311.9	341.5	261.1	234.2	214.6	198.7	187.9	182.8	181.3	180.6
32.5°	2325.8	1317.7	348.8	253.8	216.9	197.2	182.0	174.0	169.0	169.0	169.0
35°	2439.7	1316.3	359.7	260.3	205.2	179.9	168.2	163.2	158.1	158.1	158.1
37.5°	2582.5	1318.5	368.4	271.2	200.9	165.3	158.9	152.3	149.4	149.4	149.4
40°	2795.8	1390.2	364.1	280.6	199.5	155.2	142.2	140.0	137.8	137.8	137.8
42.5°	3056.9	1546.2	369.8	281.4	198.7	147.9	130.6	134.9	129.8	129.0	128.3
45°	3342.5	1716.6	406.8	266.2	198.0	144.3	124.7	129.8	121.9	121.9	121.9
47.5°	3626.1	1885.6	444.5	244.4	195.8	143.6	119.6	116.7	114.6	115.3	115.3
50°	4017.0	2023.4	459.1	214.6	190.8	142.2	110.2	111.0	109.5	111.0	111.0
52.5°	4442.8	2052.4	441.7	181.3	176.2	137.8	103.7	106.6	105.9	107.3	107.3
55°	4708.1	2021.2	364.8	150.9	153.8	120.4	97.2	103.0	103.0	103.0	103.0
57.5°	4982.3	1888.5	258.9	122.6	127.6	98.6	91.3	99.3	98.6	97.9	97.9
60°	5179.5	1673.8	170.5	100.8	101.6	81.2	84.9	93.6	92.9	89.2	89.2
62.5°	5326.8	1436.6	109.5	85.6	77.6	73.3	77.6	84.9	82.0	74.0	72.6
65°	5310.1	1108.1	84.2	73.3	63.9	63.9	67.4	74.0	65.3	52.2	50.7
67.5°	5000.5	749.9	69.6	61.6	53.7	53.0	55.9	61.6	55.9	44.3	42.7
70°	4447.1	490.3	55.9	47.9	42.7	39.2	45.0	53.0	47.2	35.6	34.1
72.5°	3609.4	298.8	42.0	34.8	31.2	25.4	35.6	43.6	37.7	26.1	24.7
75°	2335.3	152.3	29.0	22.4	16.7	15.3	26.1	32.6	26.1	16.0	13.7
77.5°	893.5	63.9	16.0	10.1	8.7	7.3	14.6	19.6	10.9	3.6	2.9
80°	171.9	26.9	8.0	5.1	4.3	2.9	2.2	1.4	0.0	0.0	0.0
82.5°	29.7	8.7	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	0.0	0.0	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)