

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: P959985

Luminaire Tested: **NAV-SB1B-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959985
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-SB1B-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

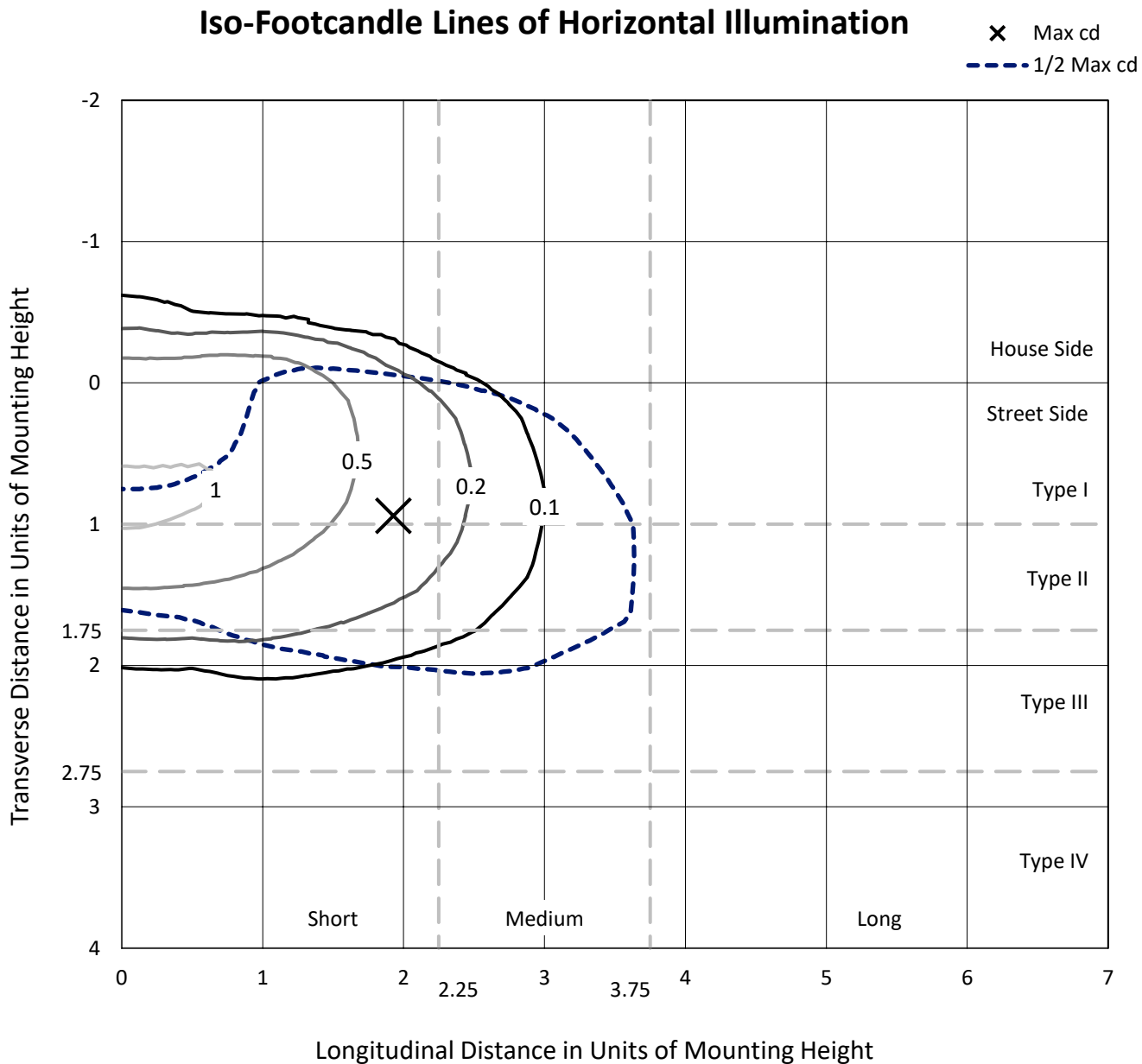
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4069.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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: P959985
CATALOG NUMBER: NAV-SB1B-830-U-T3-HSS

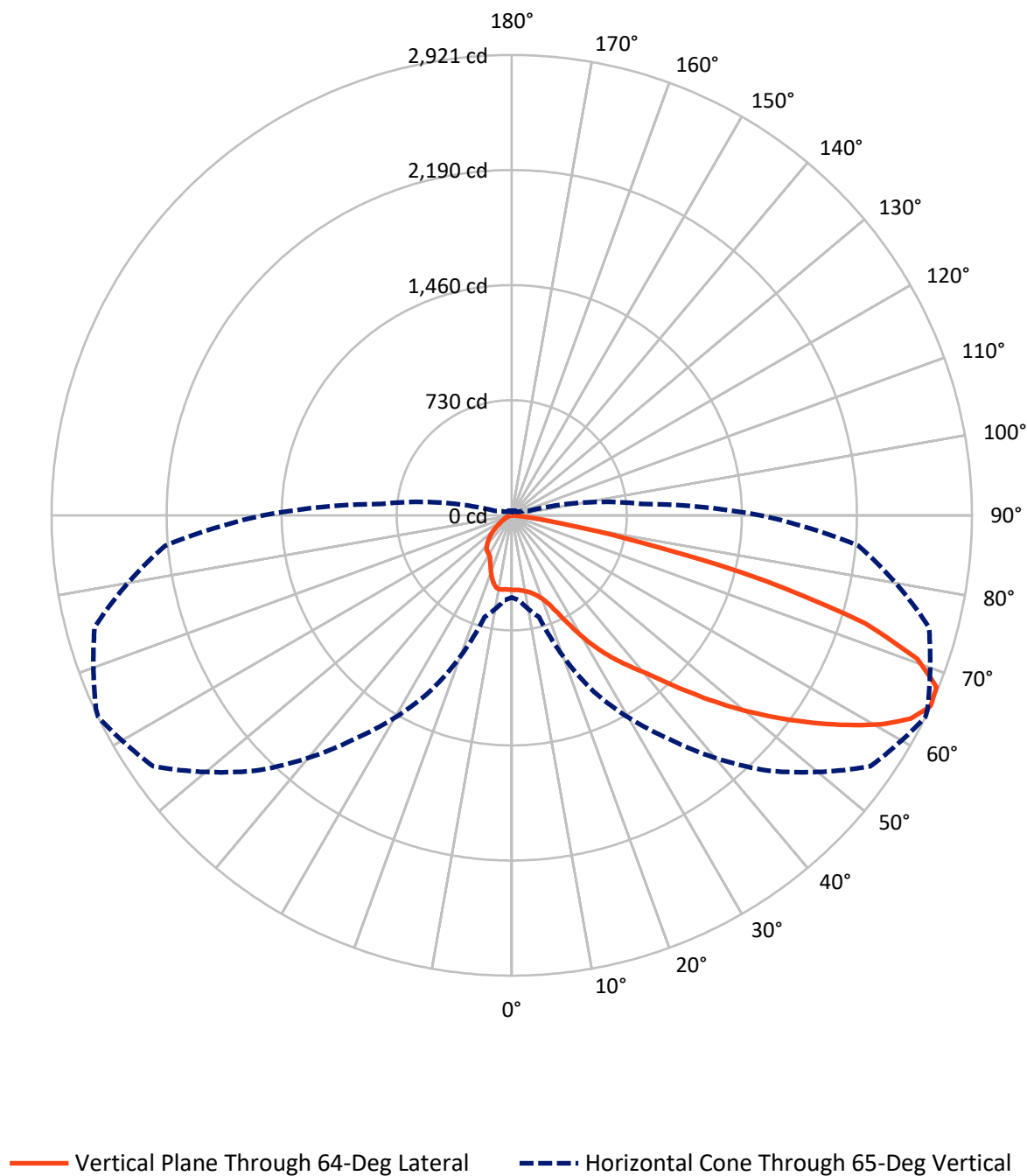


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

REPORT NUMBER: P959985

CATALOG NUMBER: NAV-SB1B-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P959985

CATALOG NUMBER: NAV-SB1B-830-U-T3-HSS

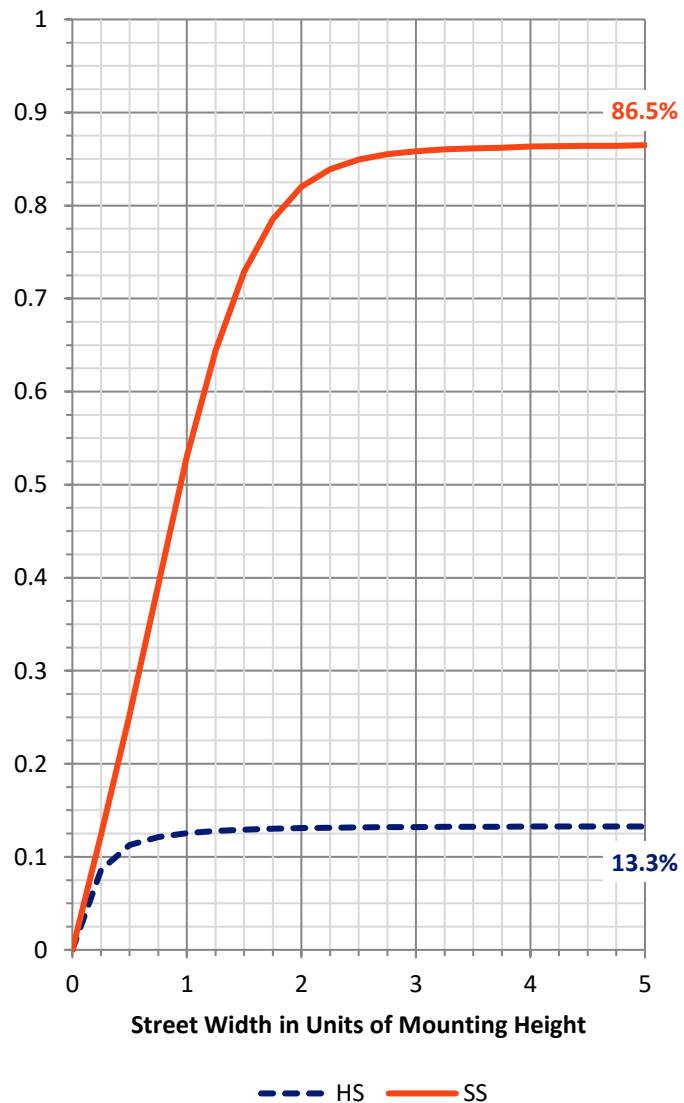
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.2	0.0	544.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3525.1	0.0	3525.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	4069.3	0.0	4069.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	1.1
10°-20°	118.4	2.9
20°-30°	224.4	5.5
30°-40°	454.1	11.2
40°-50°	773.6	19.0
50°-60°	1052.1	25.9
60°-70°	987.9	24.3
70°-80°	395.8	9.7
80°-90°	19.2	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°	4069.3	100.0
0°-180°	4069.3	100.0

Coefficient of Utilization



REPORT NUMBER: P959985

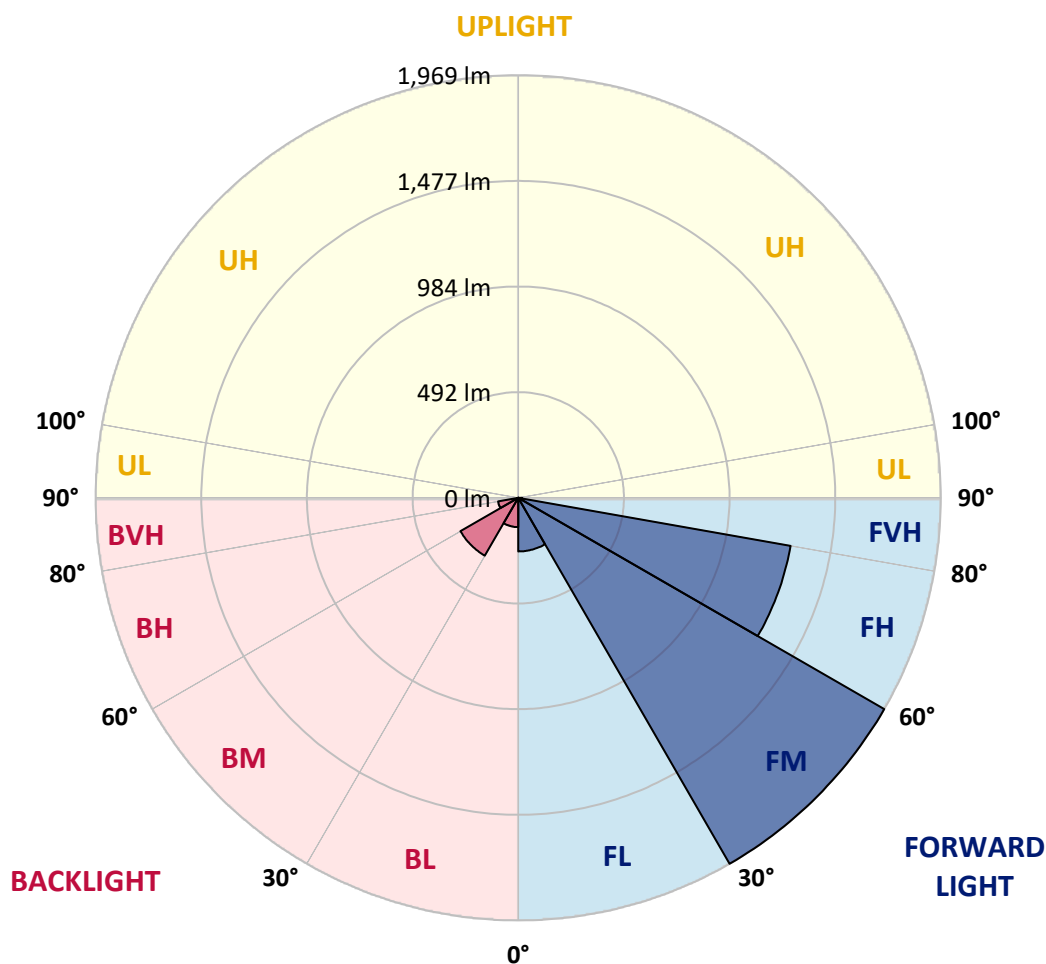
CATALOG NUMBER: NAV-SB1B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.9	6.1			
FM	(30°-60°)	1968.7	48.4			
FH	(60°-80°)	1288.2	31.7			G1/1800
FVH	(80°-90°)	18.2	0.4			G1/100
BL	(0°-30°)	136.6	3.4	B1/500		
BM	(30°-60°)	311.1	7.6	B1/1000		
BH	(60°-80°)	95.5	2.3	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G1

Type III Short



REPORT NUMBER: P959985

CATALOG NUMBER: NAV-SB1B-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3
2.5°	471.7	474.9	474.2	473.3	473.0	473.6	473.9	473.6	473.6	473.6	473.9
5°	462.7	465.4	465.4	467.3	470.1	473.3	475.7	476.3	476.8	477.6	477.3
7.5°	445.5	447.6	449.3	455.6	462.4	471.1	478.5	482.3	482.9	485.8	487.0
10°	433.8	436.4	439.2	445.8	455.6	468.6	481.2	490.5	491.8	499.0	502.2
12.5°	433.2	435.9	439.5	446.6	458.0	471.9	487.2	500.6	503.1	513.4	520.2
15°	438.9	442.2	445.5	454.2	466.5	483.4	499.8	516.4	518.9	533.6	541.0
17.5°	450.7	455.0	457.5	466.2	479.3	498.2	519.7	538.7	541.0	558.1	567.4
20°	473.9	479.0	479.8	487.0	499.8	520.0	545.6	569.3	572.1	591.7	602.1
22.5°	521.8	529.2	522.6	526.2	537.7	557.9	585.7	615.7	619.5	641.9	651.2
25°	606.4	616.7	599.8	593.9	598.8	619.8	654.7	692.6	697.0	715.0	719.7
27.5°	772.5	759.2	733.5	708.5	693.7	705.7	745.0	791.9	797.3	814.9	809.3
30°	955.1	943.3	908.7	853.0	818.2	816.2	852.5	904.9	911.1	927.7	911.1
32.5°	1137.9	1126.7	1089.0	1020.5	959.9	930.0	955.1	1013.1	1016.4	1027.0	1002.6
35°	1317.6	1306.2	1268.4	1198.4	1123.9	1055.8	1050.8	1116.2	1117.4	1128.5	1092.0
37.5°	1498.4	1488.9	1448.8	1380.1	1306.7	1212.6	1167.0	1213.9	1215.3	1226.2	1188.3
40°	1627.5	1631.6	1604.0	1550.8	1487.8	1385.0	1297.4	1317.8	1309.6	1328.0	1305.3
42.5°	1738.2	1746.4	1722.4	1695.7	1659.2	1568.6	1458.9	1455.4	1442.3	1452.1	1428.6
45°	1834.0	1840.8	1819.3	1813.0	1812.2	1748.6	1635.4	1614.1	1595.8	1594.0	1565.8
47.5°	1869.2	1882.3	1891.5	1912.5	1953.4	1926.7	1817.9	1784.9	1764.4	1749.5	1705.0
50°	1882.5	1896.5	1928.1	1989.2	2086.1	2097.5	1999.6	1962.5	1937.4	1910.1	1844.6
52.5°	1864.6	1889.4	1931.9	2034.7	2175.3	2234.4	2173.9	2141.4	2112.8	2068.3	1971.2
55°	1758.4	1783.3	1870.3	2034.2	2219.7	2330.4	2338.6	2324.2	2292.0	2221.9	2073.5
57.5°	1534.7	1571.5	1709.3	1964.9	2218.9	2413.2	2500.2	2510.5	2474.6	2374.1	2153.9
60°	1224.9	1274.8	1442.8	1811.4	2150.4	2457.8	2641.7	2693.6	2655.4	2524.2	2219.1
62.5°	854.6	912.5	1071.5	1570.7	1993.8	2425.7	2745.2	2840.9	2812.0	2658.3	2244.2
65°	521.3	539.9	668.1	1236.0	1727.6	2290.9	2777.0	2920.5	2911.0	2740.4	2207.1
67.5°	347.3	362.8	399.6	847.6	1341.0	2021.7	2700.7	2906.6	2909.4	2727.1	2071.3
70°	209.2	222.6	246.6	492.9	869.1	1600.2	2464.1	2729.3	2745.2	2548.5	1813.8
72.5°	86.2	95.2	117.1	223.4	450.1	1015.6	1962.2	2343.3	2380.2	2142.8	1392.1
75°	48.8	53.5	68.8	112.1	195.4	473.3	1188.6	1663.5	1717.8	1476.9	837.4
77.5°	32.5	34.6	44.5	72.6	110.0	161.5	508.0	866.6	970.4	806.7	362.5
80°	21.8	23.8	30.5	48.6	71.4	69.3	161.7	321.0	395.0	277.2	88.4
82.5°	14.8	15.0	21.8	31.9	45.3	33.5	47.8	99.8	125.5	80.2	33.5
85°	8.5	8.2	16.1	18.6	20.2	13.9	14.5	30.0	39.3	33.8	19.1
87.5°	1.1	1.6	6.3	4.9	2.8	3.0	3.0	5.2	7.7	8.2	4.1
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: P959985

CATALOG NUMBER: NAV-SB1B-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3
2.5°	473.9	473.6	472.7	471.9	470.1	468.9	469.4	468.9	468.6	468.9	470.1
5°	477.3	476.5	474.4	471.7	467.8	463.2	460.2	455.8	451.7	449.3	449.9
7.5°	487.0	486.2	483.1	475.5	463.2	443.8	426.1	410.5	398.8	392.0	392.3
10°	502.2	500.8	496.2	479.3	447.1	404.9	369.6	340.4	321.3	312.3	311.5
12.5°	520.2	518.5	510.3	475.7	416.6	350.5	302.0	269.5	251.7	243.8	243.0
15°	541.5	539.4	523.3	458.8	372.1	290.5	246.1	221.8	210.3	203.3	203.5
17.5°	568.0	564.2	532.8	433.5	323.8	244.7	211.7	193.4	183.3	176.5	176.0
20°	602.3	596.0	540.4	403.2	279.3	215.8	188.5	173.2	165.5	159.6	158.5
22.5°	650.4	641.3	549.7	370.4	247.9	195.9	171.3	160.1	153.9	147.0	146.0
25°	709.8	699.2	561.1	340.2	226.4	178.7	158.8	149.4	142.2	134.2	133.4
27.5°	793.0	773.9	574.8	315.4	207.9	163.9	147.3	136.9	128.5	122.0	120.5
30°	885.8	854.3	586.8	300.3	191.0	150.3	132.3	122.0	114.0	109.4	108.5
32.5°	973.6	931.0	594.7	293.8	175.7	134.8	115.9	104.8	98.7	97.4	98.2
35°	1056.6	1000.3	593.9	287.5	162.1	119.2	99.8	88.4	83.7	84.6	84.6
37.5°	1152.0	1074.3	588.1	277.7	150.9	105.1	85.9	75.8	71.8	72.1	73.1
40°	1263.0	1159.7	584.6	259.1	138.6	91.9	74.5	66.3	63.2	62.2	61.9
42.5°	1381.4	1242.3	585.2	238.1	123.3	80.2	66.5	59.8	57.0	56.2	56.0
45°	1500.4	1321.1	586.0	216.3	107.2	71.2	60.8	55.1	53.5	52.4	52.4
47.5°	1612.2	1388.3	570.7	192.9	91.4	64.4	56.2	52.4	51.0	49.6	49.6
50°	1716.5	1432.9	533.8	165.5	78.8	58.9	52.7	49.9	48.6	47.2	47.2
52.5°	1797.4	1440.1	473.0	137.5	70.1	54.8	50.4	48.0	46.3	45.0	44.7
55°	1833.4	1395.6	386.5	111.3	63.2	51.2	48.3	45.8	43.9	42.5	42.3
57.5°	1824.2	1302.1	301.5	89.5	56.8	47.8	45.5	43.9	41.7	39.6	39.3
60°	1778.6	1176.8	227.2	74.5	50.7	43.9	42.5	41.2	38.2	35.0	34.3
62.5°	1699.8	1019.5	162.1	61.6	44.2	39.6	39.1	37.9	33.5	27.6	27.0
65°	1579.2	828.2	109.2	51.2	37.9	34.6	35.0	33.0	27.3	20.5	19.9
67.5°	1403.0	605.6	69.8	42.0	31.7	28.9	29.2	28.1	23.2	17.4	16.6
70°	1178.4	401.0	45.5	31.9	25.4	22.3	24.0	24.3	19.7	14.1	13.6
72.5°	864.0	236.8	31.9	23.8	18.6	15.6	19.7	20.2	15.8	10.7	10.0
75°	492.4	112.3	24.0	17.2	11.5	10.9	15.3	15.3	10.9	7.1	6.6
77.5°	206.7	46.9	16.9	11.2	6.6	6.3	10.4	9.5	5.4	3.3	3.3
80°	59.8	21.0	9.0	5.4	2.8	2.5	4.1	3.0	1.3	0.5	0.5
82.5°	23.5	9.2	3.6	2.2	1.1	1.1	0.5	0.0	0.0	0.0	0.0
85°	13.9	3.8	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	0.8	0.5	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)