

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: P963677

Luminaire Tested: **NAV-SB3A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963677
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-SB3A-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12404.5 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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



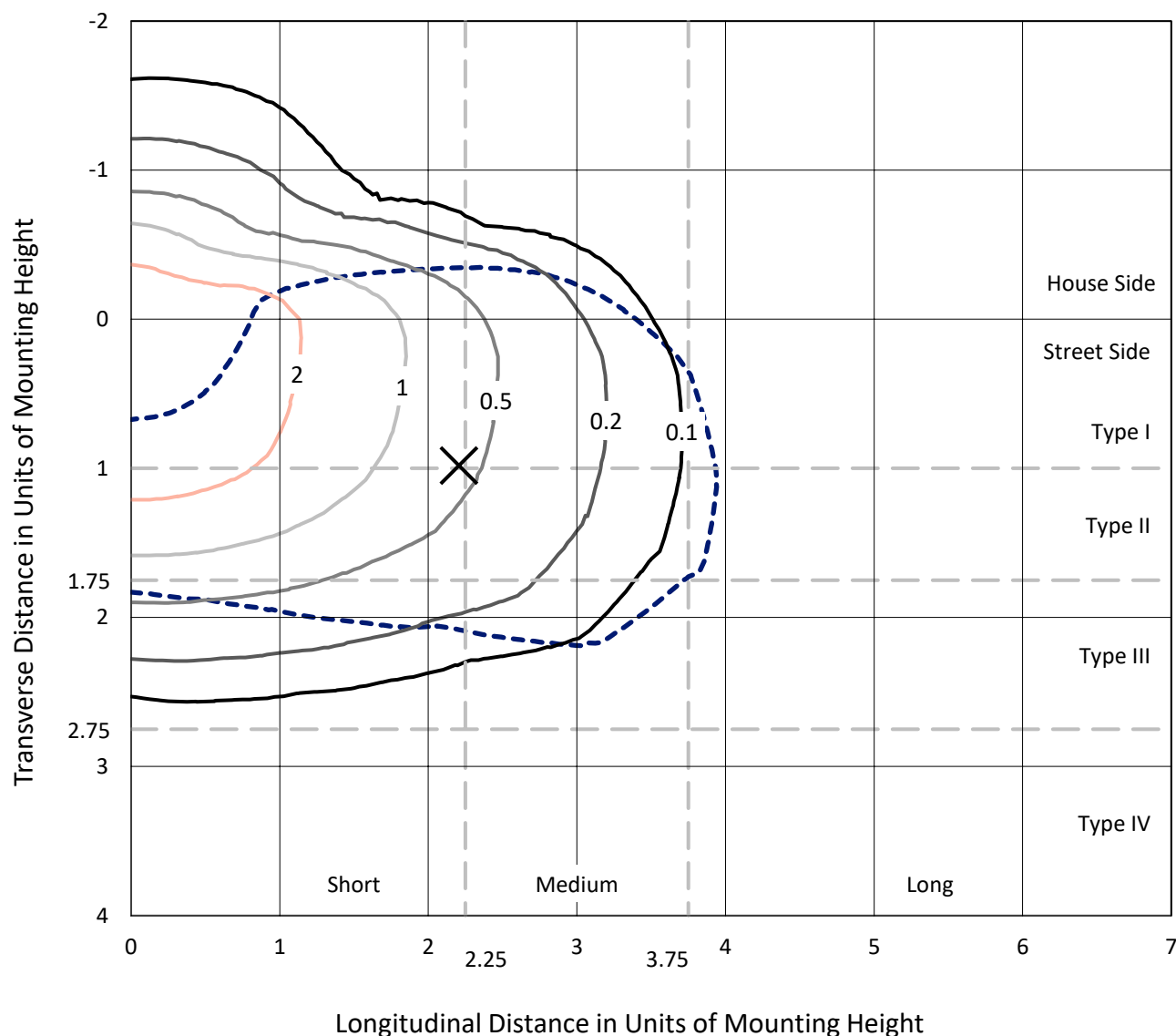
REPORT NUMBER: P963677

CATALOG NUMBER: NAV-SB3A-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

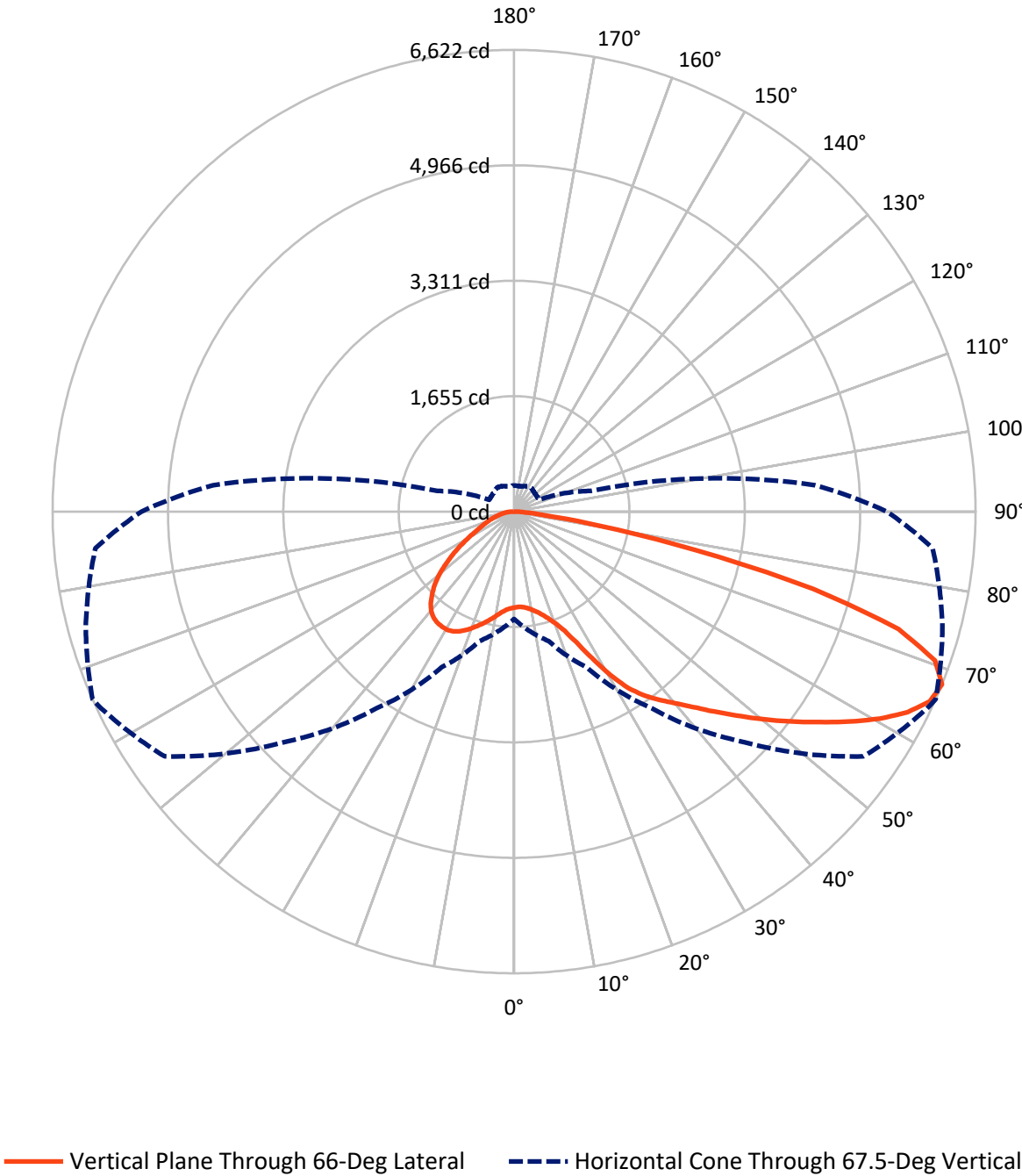


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type III - Short - N/A

REPORT NUMBER: P963677
CATALOG NUMBER: NAV-SB3A-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P963677

CATALOG NUMBER: NAV-SB3A-830-U-T3

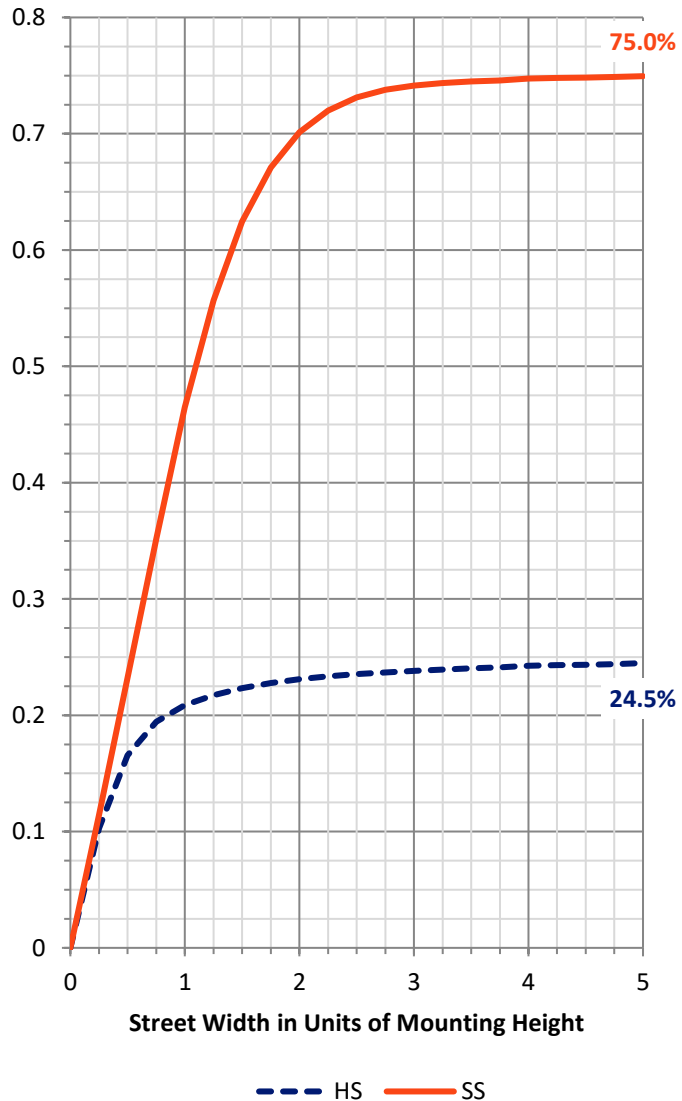
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3084.4	0.0	3084.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	9320.2	0.0	9320.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	12404.5	0.0	12404.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.1
10°-20°	450.7	3.6
20°-30°	868.6	7.0
30°-40°	1523.1	12.3
40°-50°	2264.3	18.3
50°-60°	2870.2	23.1
60°-70°	2808.4	22.6
70°-80°	1339.6	10.8
80°-90°	143.2	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°	12404.5	100.0
0°-180°	12404.5	100.0

Coefficient of Utilization



REPORT NUMBER: P963677

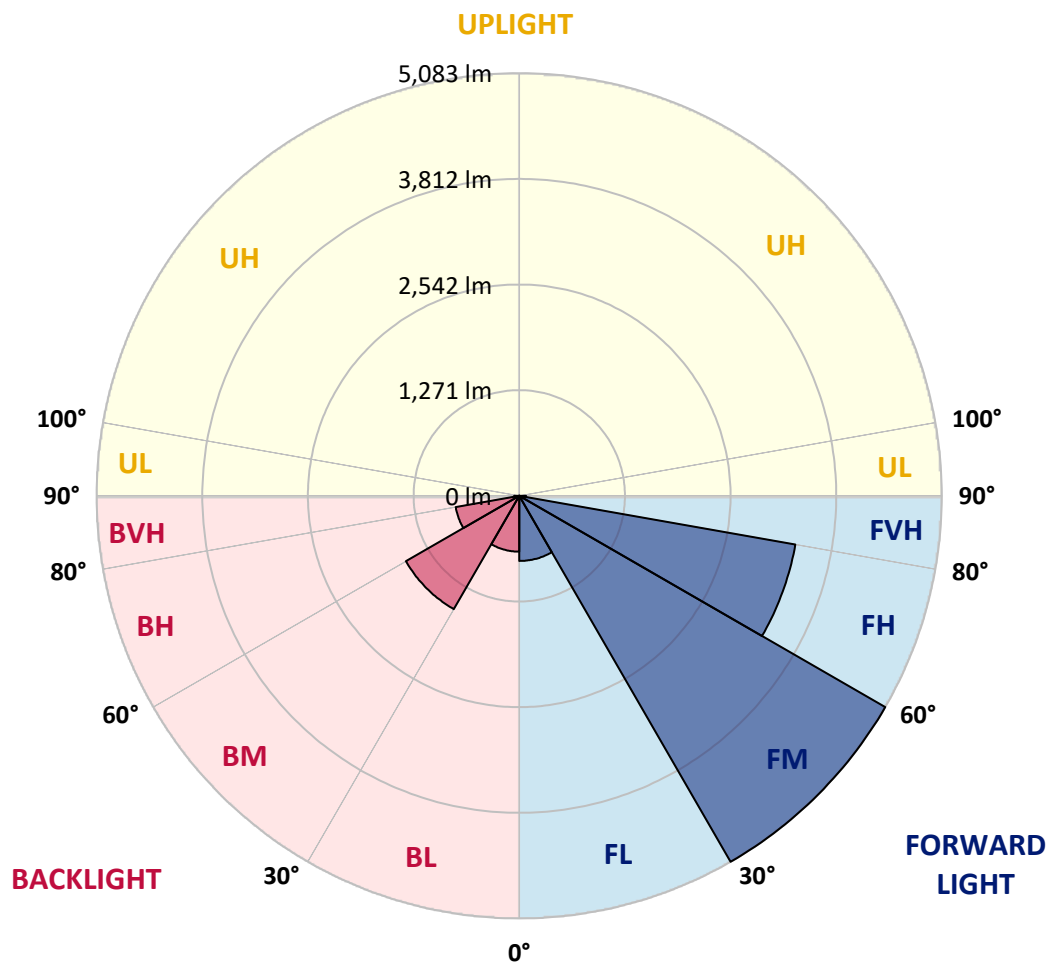
CATALOG NUMBER: NAV-SB3A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.8	6.3			
FM	(30°-60°)	5083.3	41.0			
FH	(60°-80°)	3371.9	27.2			G2/5000
FVH	(80°-90°)	81.2	0.7			G1/100
BL	(0°-30°)	671.9	5.4	B2/1000		
BM	(30°-60°)	1574.3	12.7	B2/2500		
BH	(60°-80°)	776.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	62.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P963677

CATALOG NUMBER: NAV-SB3A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9
2.5°	1361.5	1369.3	1367.4	1364.1	1363.5	1364.8	1366.7	1368.7	1368.0	1371.2	1376.5
5°	1357.6	1365.4	1364.8	1364.8	1367.4	1372.6	1375.9	1379.1	1375.9	1379.8	1386.9
7.5°	1360.2	1366.0	1368.7	1371.2	1377.8	1387.5	1395.3	1402.5	1398.6	1403.2	1412.3
10°	1393.4	1398.0	1400.6	1400.6	1405.2	1416.2	1424.0	1437.0	1433.9	1441.0	1452.7
12.5°	1454.1	1458.6	1458.6	1456.0	1459.3	1466.5	1469.0	1483.4	1477.5	1489.2	1501.0
15°	1528.4	1537.5	1530.3	1525.7	1527.0	1534.2	1533.5	1544.7	1538.7	1548.6	1558.9
17.5°	1610.5	1622.2	1610.5	1609.8	1607.2	1615.0	1615.7	1625.4	1615.0	1622.2	1629.3
20°	1707.5	1723.8	1714.1	1717.4	1711.4	1714.7	1718.0	1732.4	1716.1	1721.3	1719.3
22.5°	1844.4	1864.0	1853.5	1865.9	1862.0	1859.5	1858.7	1884.2	1858.7	1860.7	1841.8
25°	2043.8	2067.3	2049.1	2066.0	2066.0	2074.5	2084.2	2116.8	2074.5	2062.1	2013.2
27.5°	2338.4	2361.9	2326.0	2336.5	2333.2	2354.1	2343.7	2424.4	2378.8	2358.6	2260.2
30°	2693.0	2734.7	2666.9	2664.3	2661.1	2694.3	2709.3	2762.8	2716.5	2696.3	2577.7
32.5°	3076.2	3119.9	3039.1	3015.7	3003.2	3023.4	3011.0	3054.1	3022.1	2990.8	2844.2
35°	3481.6	3524.7	3447.7	3402.1	3352.6	3310.2	3265.9	3276.9	3247.0	3199.4	3047.5
37.5°	3864.9	3943.7	3862.2	3813.3	3722.1	3639.4	3515.5	3464.0	3436.0	3392.3	3239.2
40°	4255.2	4300.2	4238.3	4196.6	4097.5	3967.8	3769.6	3660.8	3623.1	3580.6	3451.0
42.5°	4542.6	4585.6	4552.4	4523.7	4446.1	4295.7	4039.5	3903.3	3848.6	3801.0	3690.8
45°	4770.8	4802.7	4781.8	4792.3	4759.1	4613.0	4319.1	4163.3	4106.7	4048.6	3961.9
47.5°	4862.6	4896.5	4929.7	4991.6	5048.4	4940.9	4619.6	4444.9	4385.0	4325.6	4240.2
50°	4852.2	4886.8	4983.2	5114.9	5290.8	5255.0	4936.3	4744.7	4689.3	4621.5	4542.6
52.5°	4768.8	4807.9	4931.7	5150.7	5431.0	5490.3	5258.9	5054.3	5002.1	4921.3	4842.4
55°	4549.8	4573.2	4759.1	5069.2	5464.2	5654.5	5575.0	5384.0	5331.9	5219.2	5133.1
57.5°	4143.8	4177.7	4448.2	4849.6	5380.7	5765.9	5852.6	5730.8	5680.5	5518.3	5428.4
60°	3613.9	3668.0	3977.6	4480.7	5168.4	5765.3	6104.9	6071.6	6030.0	5812.9	5719.1
62.5°	3014.3	3076.8	3374.7	3959.4	4796.8	5601.7	6262.5	6357.0	6335.6	6084.7	5964.8
65°	2315.0	2358.0	2654.5	3284.8	4218.7	5250.5	6280.9	6552.0	6555.9	6291.2	6093.1
67.5°	1541.4	1665.2	1922.6	2464.9	3444.4	4676.3	6120.5	6583.9	6621.7	6362.3	6028.6
70°	752.1	915.0	1167.3	1602.0	2464.9	3795.8	5701.5	6321.9	6405.9	6155.0	5644.1
72.5°	312.2	365.0	502.5	790.6	1414.9	2561.4	4859.4	5611.5	5767.3	5453.8	4745.3
75°	210.5	228.1	287.4	405.4	644.6	1263.1	3504.4	4184.2	4435.1	4119.0	3366.9
77.5°	162.3	173.3	209.2	283.5	383.2	477.8	1875.7	2521.6	2651.3	2454.5	1751.9
80°	127.7	136.2	156.4	206.6	271.7	255.5	639.4	1142.5	1217.5	1021.3	563.1
82.5°	110.8	114.1	112.1	140.1	180.5	149.2	209.8	421.7	465.4	337.6	183.8
85°	80.2	89.3	93.2	86.7	95.8	75.6	86.0	149.2	164.2	146.7	103.6
87.5°	32.6	48.3	59.3	56.1	35.2	21.5	26.8	43.7	50.2	54.7	33.9
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: P963677

CATALOG NUMBER: NAV-SB3A-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9	1375.9
2.5°	1377.1	1381.7	1385.0	1388.9	1391.4	1395.3	1403.2	1407.7	1408.5	1411.6	1411.0
5°	1389.5	1396.0	1403.2	1413.7	1425.4	1435.1	1450.2	1460.5	1464.4	1467.7	1467.1
7.5°	1416.2	1425.4	1438.4	1456.6	1473.5	1486.7	1504.9	1517.3	1529.6	1534.2	1534.8
10°	1456.0	1469.0	1487.9	1512.7	1530.9	1547.9	1566.8	1577.2	1589.6	1594.8	1597.5
12.5°	1505.5	1519.3	1544.0	1578.5	1595.5	1607.2	1613.8	1611.1	1613.8	1618.3	1619.6
15°	1562.2	1577.2	1605.3	1642.4	1654.1	1643.7	1629.3	1616.3	1614.4	1615.7	1620.2
17.5°	1629.3	1640.4	1673.0	1704.3	1695.9	1652.8	1621.6	1600.6	1590.3	1587.0	1591.5
20°	1723.2	1723.2	1749.9	1769.5	1712.8	1639.8	1590.9	1557.0	1535.6	1526.4	1524.4
22.5°	1837.3	1826.9	1843.8	1830.1	1709.5	1603.3	1535.6	1476.8	1444.2	1431.2	1429.3
25°	1981.9	1969.5	1965.0	1880.3	1686.0	1545.3	1435.1	1364.1	1335.4	1328.3	1329.5
27.5°	2200.3	2169.0	2109.7	1907.6	1643.1	1454.1	1317.8	1252.0	1235.7	1236.4	1238.3
30°	2491.0	2428.4	2283.1	1912.2	1572.7	1325.0	1197.9	1151.0	1143.2	1146.5	1157.5
32.5°	2760.1	2700.8	2460.3	1891.3	1464.4	1198.5	1090.4	1059.1	1047.3	1051.2	1056.5
35°	2971.3	2955.0	2624.6	1862.0	1331.5	1079.9	993.9	967.2	944.3	939.2	943.1
37.5°	3170.7	3164.2	2747.7	1821.0	1199.9	995.9	916.4	881.2	847.9	829.6	830.4
40°	3389.7	3383.2	2828.6	1757.8	1083.2	922.9	846.6	800.3	759.3	726.0	729.3
42.5°	3636.1	3597.6	2867.0	1667.2	984.1	861.0	789.9	727.3	673.2	642.6	644.6
45°	3905.2	3818.5	2866.4	1551.8	900.7	804.2	729.3	640.6	590.5	561.8	560.5
47.5°	4190.7	4029.7	2831.2	1424.0	819.9	741.7	635.5	567.6	534.4	516.8	512.9
50°	4485.3	4227.2	2771.2	1277.5	737.1	670.7	576.8	530.5	505.1	488.8	483.0
52.5°	4762.3	4406.5	2698.8	1111.2	653.0	601.6	550.7	514.9	488.1	469.9	462.1
55°	5019.7	4560.9	2596.5	941.2	584.7	555.2	538.3	508.4	477.8	456.2	447.7
57.5°	5248.5	4661.3	2419.9	781.5	535.8	523.4	525.3	497.3	462.1	443.8	432.1
60°	5438.8	4734.9	2158.5	633.4	496.0	492.1	505.1	476.4	435.3	414.5	405.4
62.5°	5552.8	4733.7	1837.9	518.8	462.1	463.4	478.4	450.4	408.7	389.1	383.2
65°	5543.1	4617.6	1485.9	443.8	429.5	430.8	450.4	421.7	386.5	374.7	374.1
67.5°	5346.9	4334.7	1139.9	394.9	393.7	399.5	422.3	402.1	372.8	371.5	373.4
70°	4815.8	3747.5	821.2	355.9	356.5	365.0	394.9	389.7	365.6	368.3	367.6
72.5°	3861.6	2857.3	551.3	314.8	315.4	329.1	368.9	380.0	358.4	393.0	398.2
75°	2571.7	1781.9	354.5	271.1	271.7	289.4	346.0	361.1	338.9	391.7	394.9
77.5°	1235.7	801.0	256.8	228.1	228.1	244.4	299.2	323.3	288.7	304.3	278.9
80°	426.9	301.1	202.0	183.8	179.9	191.0	252.3	280.2	249.0	229.4	215.0
82.5°	168.1	156.4	162.3	142.8	129.7	136.8	196.2	231.3	183.2	165.5	164.9
85°	96.5	101.7	114.7	94.5	74.9	84.0	144.0	166.2	138.2	121.9	124.4
87.5°	26.0	35.9	52.8	48.9	33.9	35.9	68.5	91.9	79.5	61.3	63.2
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)