

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: P964714

Luminaire Tested: **NAV-SB3C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20226.3 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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



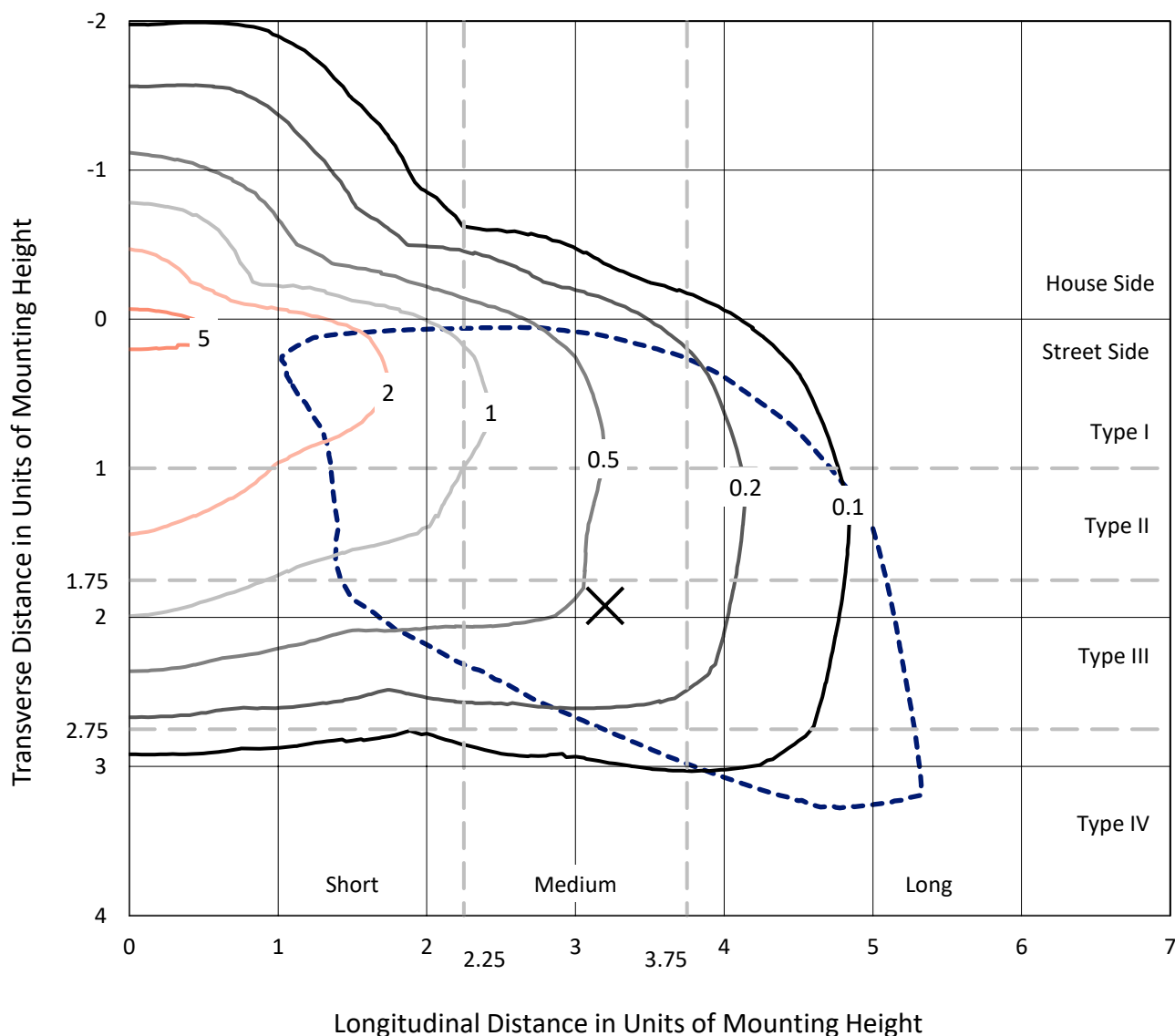
REPORT NUMBER: P964714

CATALOG NUMBER: NAV-SB3C-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

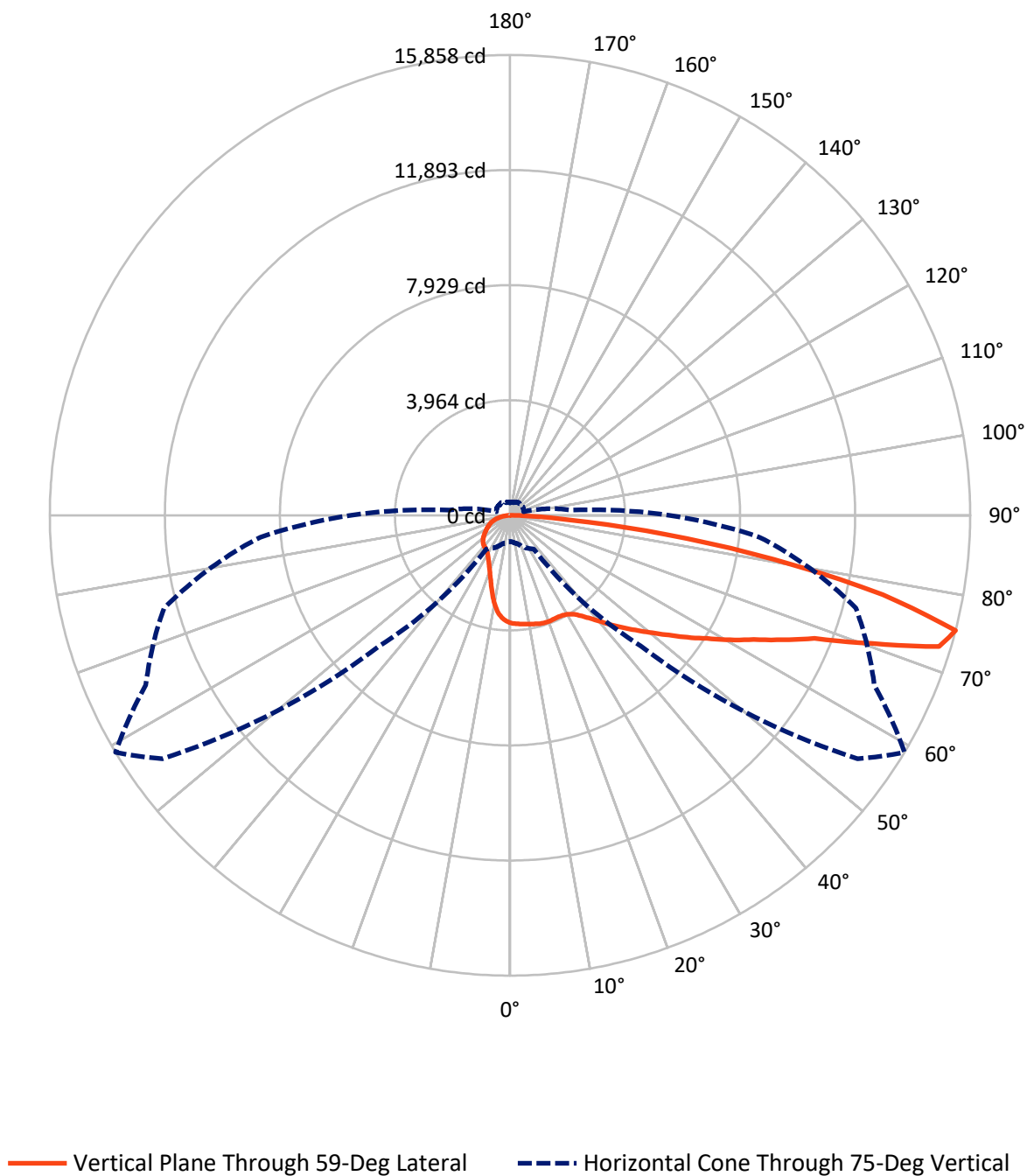


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Medium - N/A

REPORT NUMBER: P964714

CATALOG NUMBER: NAV-SB3C-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P964714

CATALOG NUMBER: NAV-SB3C-830-U-SL3

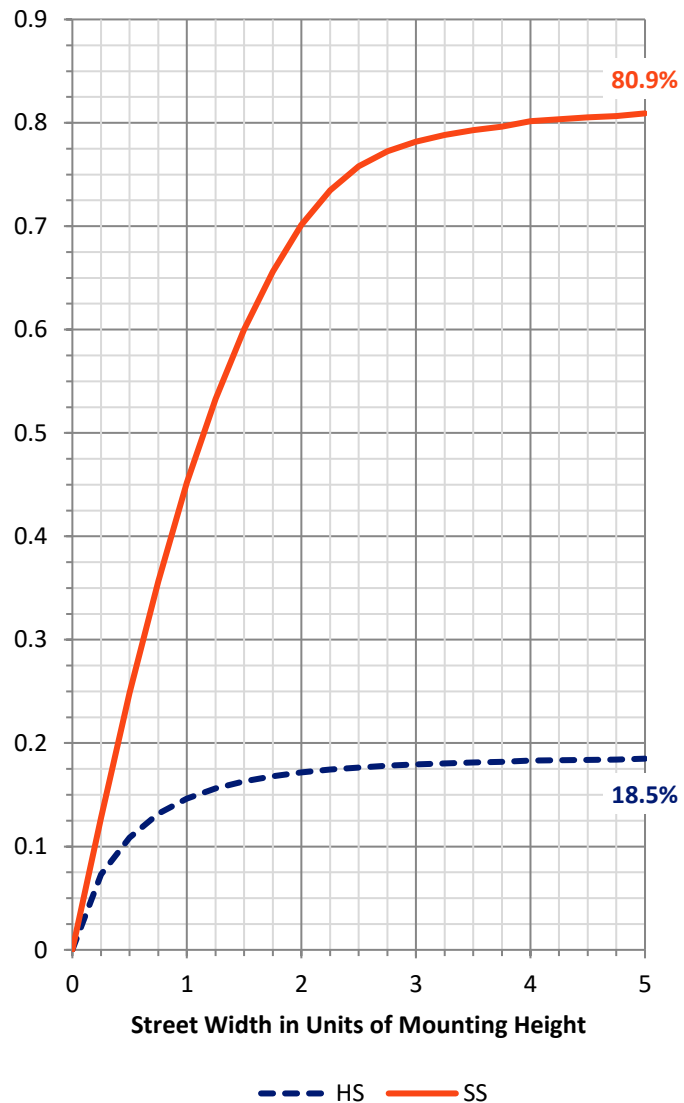
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3793.6	0.0	3793.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16432.7	0.0	16432.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	20226.3	0.0	20226.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.9	1.6
10°-20°	850.9	4.2
20°-30°	1292.4	6.4
30°-40°	1921.1	9.5
40°-50°	2857.1	14.1
50°-60°	3878.1	19.2
60°-70°	4734.6	23.4
70°-80°	3715.6	18.4
80°-90°	643.6	3.2
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°	20226.3	100.0
0°-180°	20226.3	100.0

Coefficient of Utilization



REPORT NUMBER: P964714

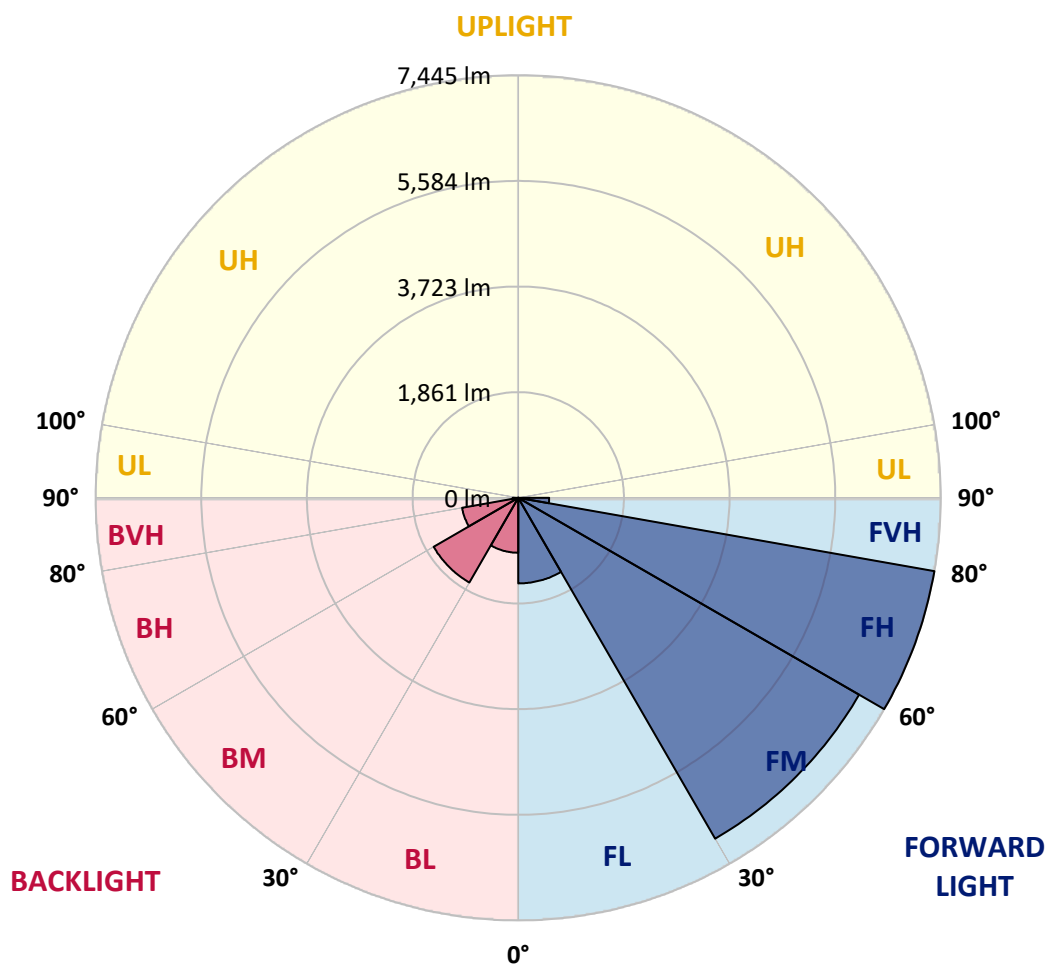
CATALOG NUMBER: NAV-SB3C-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1508.1	7.5			
FM	(30°-60°)	6934.4	34.3			
FH	(60°-80°)	7445.1	36.8			G3/7500
FVH	(80°-90°)	545.1	2.7			G4/750
BL	(0°-30°)	968.1	4.8	B2/1000		
BM	(30°-60°)	1721.9	8.5	B2/2500		
BH	(60°-80°)	1005.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	98.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



REPORT NUMBER: P964714

CATALOG NUMBER: NAV-SB3C-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4
2.5°	3744.0	3731.0	3744.0	3738.6	3736.4	3732.1	3733.2	3740.7	3736.4	3741.9	3723.4
5°	3719.0	3711.4	3724.4	3721.2	3735.3	3737.6	3751.7	3760.4	3765.8	3766.9	3752.7
7.5°	3677.7	3670.0	3688.6	3703.8	3734.3	3743.0	3772.3	3786.5	3794.1	3807.2	3786.5
10°	3526.4	3523.1	3568.8	3626.6	3698.3	3743.0	3787.6	3811.5	3823.5	3858.3	3834.3
12.5°	3258.8	3263.1	3322.9	3434.0	3577.6	3721.2	3805.0	3839.8	3858.3	3901.9	3890.9
15°	3003.0	3002.0	3067.3	3185.9	3387.2	3625.4	3813.7	3873.6	3905.0	3969.3	3960.6
17.5°	2855.1	2850.7	2896.4	2986.7	3173.9	3478.5	3791.9	3892.0	3959.5	4040.0	4032.3
20°	2827.9	2819.2	2843.1	2887.7	3020.5	3317.5	3735.3	3892.0	4003.0	4107.5	4103.1
22.5°	2926.9	2912.7	2903.0	2897.6	2956.3	3184.8	3671.1	3879.0	4067.2	4204.3	4196.7
25°	3126.0	3104.3	3054.2	3005.3	2987.9	3124.9	3614.6	3875.7	4162.9	4334.8	4306.5
27.5°	3448.1	3420.9	3319.7	3202.2	3096.6	3155.4	3589.6	3895.3	4268.5	4473.1	4416.5
30°	3847.4	3818.0	3690.7	3510.1	3320.8	3268.5	3621.1	3952.9	4403.4	4657.0	4546.0
32.5°	4205.4	4172.8	4063.9	3880.0	3624.4	3464.4	3721.2	4062.9	4615.6	4912.6	4740.7
35°	4523.1	4485.0	4387.1	4217.4	3996.5	3739.7	3901.9	4257.6	4917.0	5328.3	5005.1
37.5°	4834.3	4789.7	4683.0	4503.5	4349.0	4106.4	4150.9	4507.8	5317.4	5833.2	5355.5
40°	5182.5	5118.2	4988.8	4811.5	4661.3	4536.1	4478.5	4814.7	5724.3	6396.7	5792.9
42.5°	5519.8	5458.8	5304.4	5153.1	4964.9	4928.9	4858.2	5173.8	6169.4	7015.9	6236.8
45°	5883.2	5810.3	5623.2	5431.7	5313.1	5190.1	5226.0	5532.8	6605.7	7646.9	6702.5
47.5°	6223.8	6142.1	5921.3	5708.0	5642.7	5409.8	5563.3	5927.8	7059.4	8286.7	7163.8
50°	6407.7	6327.1	6143.2	5950.6	5899.5	5680.9	5928.9	6362.0	7534.9	8924.4	7606.7
52.5°	6561.0	6474.0	6233.5	6126.9	6111.7	5975.6	6379.4	6858.1	8010.4	9488.0	8034.4
55°	6724.3	6627.4	6320.6	6224.8	6294.5	6306.4	6913.6	7420.7	8513.0	10037.4	8438.0
57.5°	6912.5	6789.6	6404.4	6307.5	6473.0	6693.8	7527.3	8003.8	9007.1	10546.6	8797.1
60°	7089.8	6965.8	6565.4	6439.2	6665.5	7143.2	8231.3	8710.0	9566.3	11000.4	9136.5
62.5°	7124.7	7022.4	6693.8	6692.7	6926.6	7667.6	9064.7	9422.7	10054.8	11448.6	9441.2
65°	6521.9	6457.7	6263.0	6682.9	7301.0	8422.7	9992.8	10334.5	10676.2	11840.4	9708.9
67.5°	4963.8	4972.5	4958.3	5768.9	6998.5	9507.6	11336.6	11310.5	11443.2	12280.0	10016.8
70°	2269.8	2320.8	2653.8	3982.3	5606.9	9632.6	13558.5	13220.0	12406.2	12849.0	10283.3
72.5°	1226.2	1265.5	1401.5	1929.2	3370.8	8564.2	15218.9	15459.4	13686.8	13232.0	9990.7
75°	899.8	921.6	1016.3	1226.2	1415.6	6365.2	14623.7	15857.6	13846.8	12338.7	8627.3
77.5°	673.5	683.3	760.6	971.6	724.7	3355.6	11684.8	13133.0	11853.4	10137.6	6372.8
80°	488.5	499.4	557.1	729.0	508.1	1227.3	8023.4	9218.1	8118.1	6462.0	3176.1
82.5°	337.3	341.6	366.6	496.2	354.8	476.6	4552.5	5405.5	4531.8	2267.5	857.4
85°	203.5	208.9	219.8	289.5	201.3	226.3	1965.0	2032.5	1354.6	541.8	266.6
87.5°	83.7	89.2	97.9	121.9	79.4	63.1	324.2	406.9	253.5	158.9	82.7
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: P964714

CATALOG NUMBER: NAV-SB3C-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4	3712.4
2.5°	3718.0	3710.3	3689.7	3661.4	3635.3	3602.6	3588.4	3576.5	3565.6	3545.0	3535.1
5°	3740.7	3720.1	3664.6	3592.8	3511.2	3422.0	3334.9	3275.1	3223.9	3185.9	3154.3
7.5°	3775.6	3736.4	3635.3	3488.4	3301.2	3109.7	2936.7	2813.7	2721.3	2687.5	2628.8
10°	3811.5	3764.7	3588.4	3329.5	3006.3	2711.4	2481.9	2355.7	2281.6	2257.8	2220.8
12.5°	3853.9	3785.4	3515.5	3108.6	2676.7	2353.5	2153.3	2079.3	2041.2	2028.2	2031.4
15°	3916.0	3802.9	3405.7	2832.3	2362.2	2092.3	1962.9	1911.7	1892.2	1891.0	1895.4
17.5°	3962.8	3806.0	3234.8	2536.3	2120.6	1934.6	1828.0	1808.4	1821.4	1841.0	1848.6
20°	4015.0	3776.7	3010.7	2266.5	1950.9	1796.4	1751.8	1764.8	1796.4	1824.7	1834.4
22.5°	4051.9	3723.4	2739.7	2056.5	1804.0	1717.0	1714.8	1742.0	1759.4	1773.6	1781.1
25°	4084.6	3633.1	2452.5	1880.2	1683.3	1669.1	1693.0	1684.4	1672.4	1684.4	1692.0
27.5°	4108.5	3490.5	2195.8	1725.7	1598.4	1636.4	1622.3	1602.7	1601.7	1608.1	1619.1
30°	4100.9	3300.1	1984.6	1578.8	1538.5	1575.5	1541.8	1538.5	1535.2	1538.5	1550.5
32.5°	4100.9	3083.6	1822.6	1477.6	1500.5	1486.4	1483.1	1475.4	1462.4	1461.2	1475.4
35°	4123.8	2867.0	1683.3	1423.2	1468.9	1435.2	1437.4	1418.8	1391.6	1378.6	1391.6
37.5°	4170.6	2693.0	1545.1	1397.1	1413.4	1412.3	1403.6	1372.1	1324.2	1282.8	1296.9
40°	4283.8	2641.8	1450.4	1385.1	1387.3	1400.4	1377.5	1316.6	1207.8	1140.3	1149.0
42.5°	4461.1	2727.8	1429.8	1355.8	1369.9	1382.9	1338.3	1196.9	1119.6	1079.3	1079.3
45°	4686.3	2878.0	1474.4	1313.3	1328.5	1351.4	1218.6	1151.2	1116.3	1117.5	1122.9
47.5°	4971.4	3035.7	1557.1	1276.3	1268.6	1281.8	1139.2	1097.9	1050.0	1062.0	1092.4
50°	5301.1	3195.6	1635.4	1226.2	1202.3	1159.9	1088.0	1048.9	988.0	959.7	967.3
52.5°	5658.0	3350.2	1667.0	1165.3	1130.5	1081.6	1053.3	1005.4	931.4	884.6	883.6
55°	5996.4	3490.5	1632.1	1092.4	1058.7	1020.6	1016.3	986.9	907.4	842.1	842.1
57.5°	6316.3	3608.0	1545.1	1018.4	985.7	963.0	992.3	978.2	878.1	794.3	790.0
60°	6587.2	3688.6	1418.8	943.3	920.6	908.6	953.1	948.8	836.7	743.1	739.8
62.5°	6802.6	3720.1	1279.6	871.6	866.1	844.3	898.7	898.7	784.5	693.1	689.8
65°	6971.2	3689.7	1138.2	800.8	811.7	779.1	832.4	825.8	729.0	648.5	644.1
67.5°	7120.4	3589.6	981.4	731.1	756.2	714.8	762.7	747.5	668.1	603.9	599.5
70°	7186.7	3356.7	803.0	661.5	692.0	651.8	693.1	664.8	599.5	556.0	547.3
72.5°	6653.6	2789.8	632.2	588.7	614.8	582.1	618.1	585.4	525.5	505.9	489.6
75°	5504.6	2093.5	486.4	509.2	528.8	503.8	527.7	503.8	449.4	463.5	423.2
77.5°	3997.6	1413.4	372.1	425.5	434.2	421.1	441.8	414.5	365.6	362.3	346.0
80°	1987.9	828.0	291.6	336.2	332.9	324.2	348.2	335.2	293.8	311.2	307.9
82.5°	575.6	354.8	212.2	236.2	229.6	231.8	249.2	255.7	383.0	379.8	388.5
85°	180.6	139.3	127.3	131.6	125.2	128.4	146.9	291.6	269.9	157.7	170.9
87.5°	46.7	47.9	31.6	33.7	34.8	41.3	46.7	177.3	84.9	55.5	58.7
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)