

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: P964683

Luminaire Tested: **NAV-SB3C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964683
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-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 19573.4 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - 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



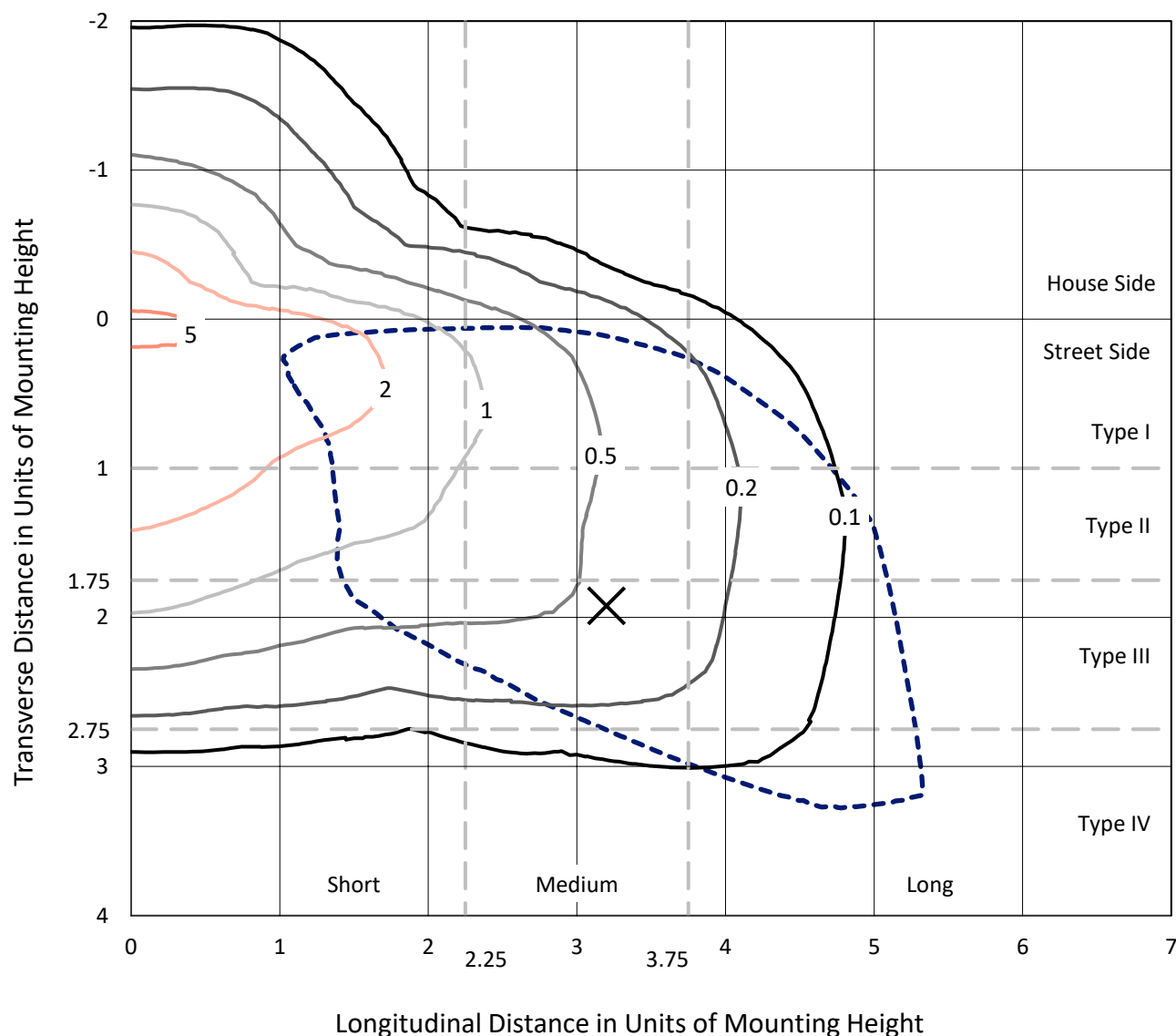
REPORT NUMBER: P964683

CATALOG NUMBER: NAV-SB3C-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

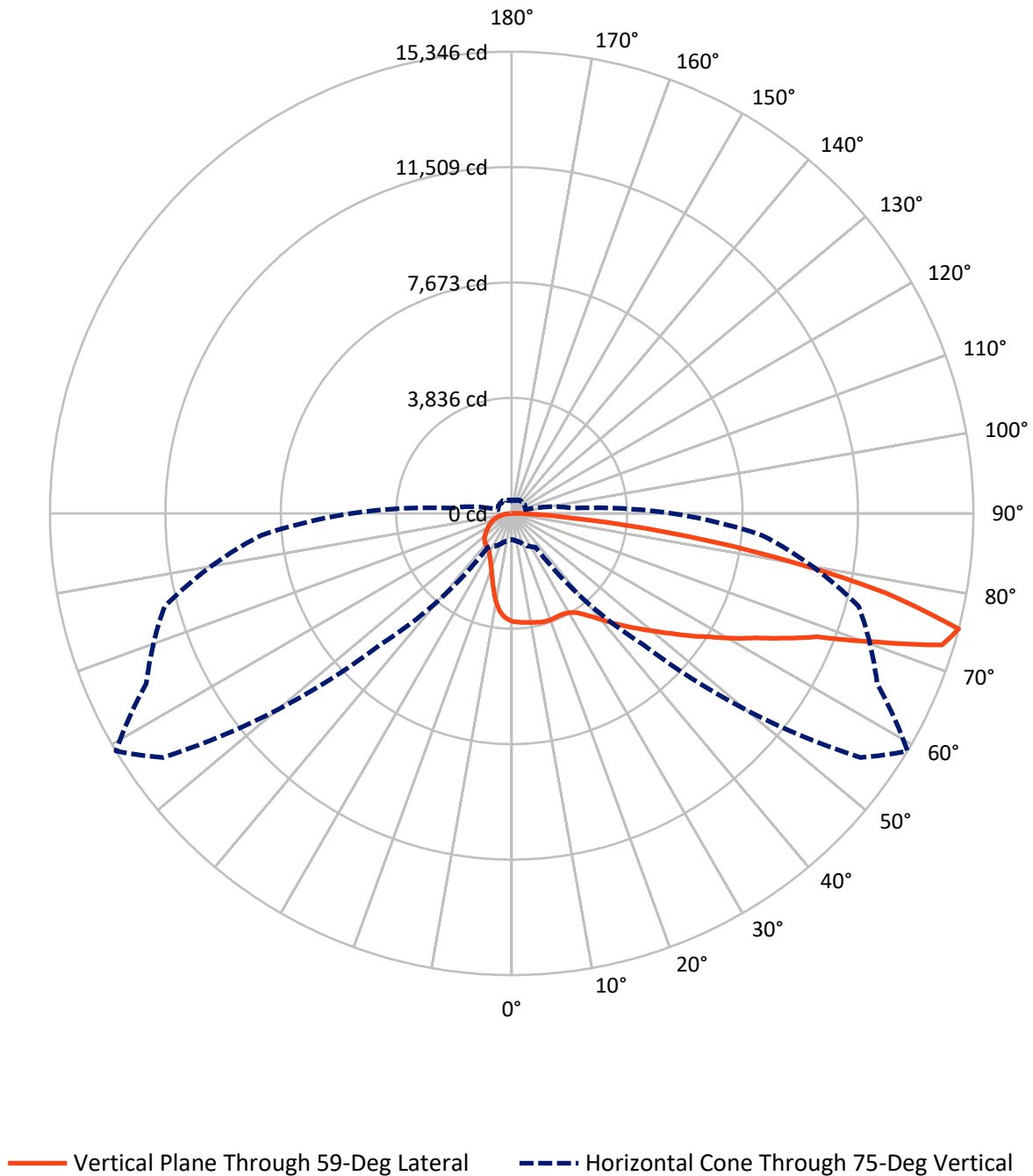
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P964683
CATALOG NUMBER: NAV-SB3C-827-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P964683

CATALOG NUMBER: NAV-SB3C-827-U-SL3

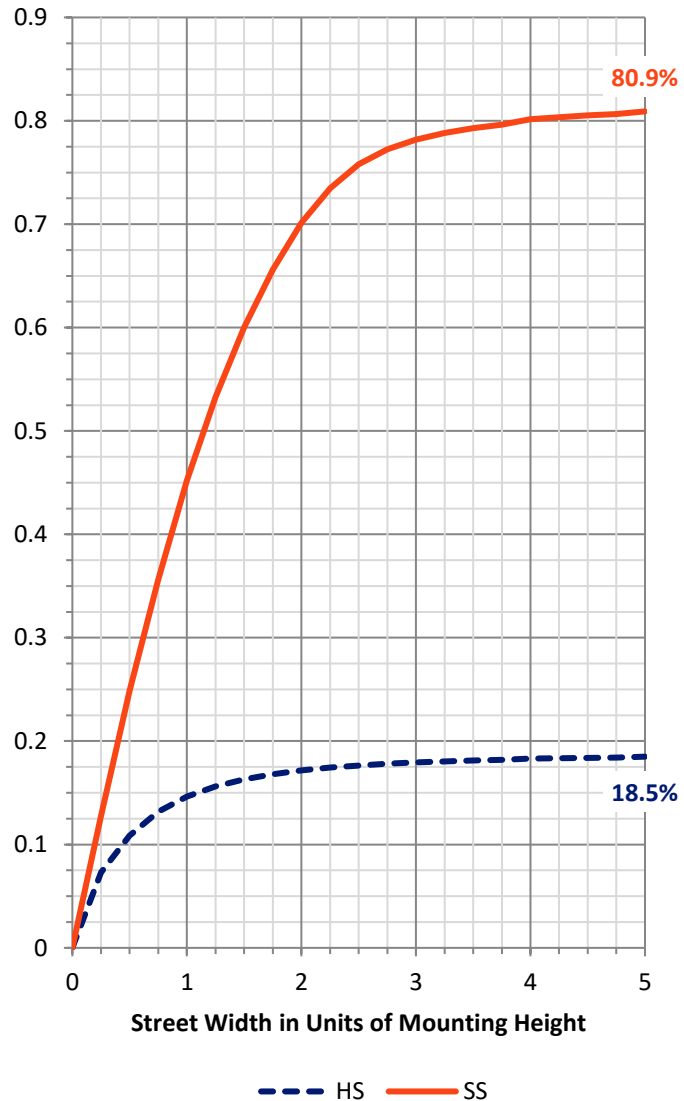
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3671.1	0.0	3671.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15902.3	0.0	15902.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	19573.4	0.0	19573.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.1	1.6
10°-20°	823.4	4.2
20°-30°	1250.7	6.4
30°-40°	1859.1	9.5
40°-50°	2764.8	14.1
50°-60°	3752.9	19.2
60°-70°	4581.7	23.4
70°-80°	3595.7	18.4
80°-90°	622.9	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°	19573.4	100.0
0°-180°	19573.4	100.0

Coefficient of Utilization



REPORT NUMBER: P964683

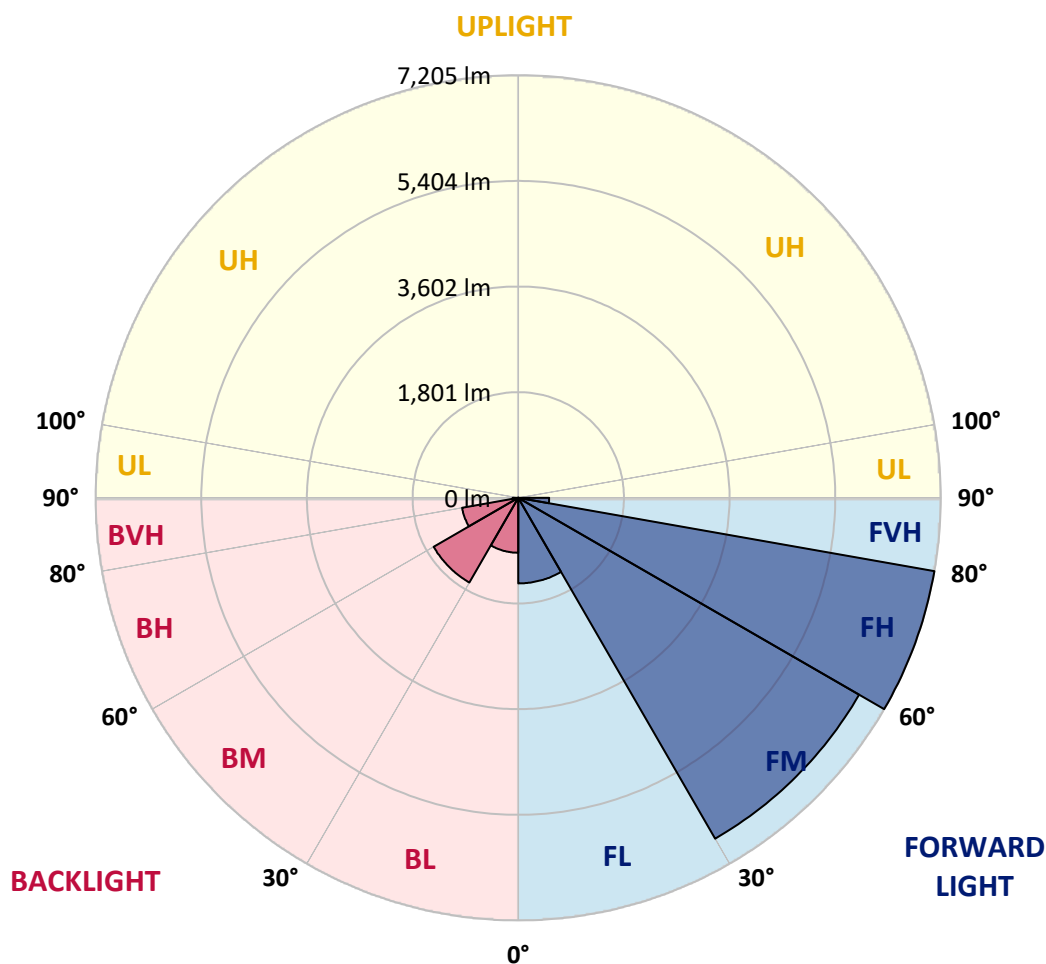
CATALOG NUMBER: NAV-SB3C-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1459.4	7.5			
FM	(30°-60°)	6710.6	34.3			
FH	(60°-80°)	7204.8	36.8			G3/7500
FVH	(80°-90°)	527.5	2.7			G4/750
BL	(0°-30°)	936.8	4.8	B2/1000		
BM	(30°-60°)	1666.3	8.5	B2/2500		
BH	(60°-80°)	972.6	5.0	B2/1000		G2/1000
BVH	(80°-90°)	95.3	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-G4

Type IV Medium



REPORT NUMBER: P964683

CATALOG NUMBER: NAV-SB3C-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6
2.5°	3623.2	3610.6	3623.2	3617.9	3615.8	3611.6	3612.6	3620.0	3615.8	3621.1	3603.2
5°	3599.0	3591.6	3604.2	3601.0	3614.8	3616.9	3630.6	3639.0	3644.3	3645.3	3631.6
7.5°	3559.0	3551.6	3569.5	3584.2	3613.7	3622.1	3650.5	3664.3	3671.7	3684.3	3664.3
10°	3412.6	3409.5	3453.6	3509.5	3579.0	3622.1	3665.3	3688.5	3700.0	3733.8	3710.6
12.5°	3153.6	3157.8	3215.7	3323.0	3462.0	3601.0	3682.1	3715.8	3733.8	3775.9	3765.3
15°	2906.2	2905.1	2968.3	3083.0	3277.8	3508.4	3690.6	3748.5	3779.1	3841.2	3832.7
17.5°	2762.9	2758.7	2803.0	2890.3	3071.4	3366.3	3669.5	3766.4	3831.7	3909.6	3902.2
20°	2736.6	2728.1	2751.3	2794.6	2923.0	3210.4	3614.8	3766.4	3873.8	3974.8	3970.6
22.5°	2832.4	2818.7	2809.2	2804.0	2860.9	3082.0	3552.6	3753.8	3935.9	4068.6	4061.3
25°	3025.1	3004.1	2955.6	2908.2	2891.4	3024.1	3497.9	3750.6	4028.6	4194.9	4167.5
27.5°	3336.8	3310.4	3212.6	3098.8	2996.7	3053.6	3473.6	3769.5	4130.8	4328.7	4273.9
30°	3723.2	3694.8	3571.6	3396.8	3213.6	3163.0	3504.2	3825.4	4261.2	4506.6	4399.2
32.5°	4069.7	4038.1	3932.7	3754.8	3507.3	3352.6	3601.0	3931.7	4466.6	4754.1	4587.7
35°	4377.1	4340.3	4245.4	4081.2	3867.4	3619.0	3775.9	4120.2	4758.3	5156.3	4843.5
37.5°	4678.2	4635.0	4531.8	4358.1	4208.6	3973.8	4017.0	4362.4	5145.7	5644.9	5182.6
40°	5015.2	4953.1	4827.8	4656.2	4510.8	4389.8	4333.9	4659.2	5539.5	6190.3	5605.9
42.5°	5341.6	5282.6	5133.1	4986.7	4804.6	4769.8	4701.4	5006.7	5970.2	6789.4	6035.5
45°	5693.3	5622.7	5441.6	5256.3	5141.5	5022.6	5057.3	5354.2	6392.4	7400.1	6486.2
47.5°	6022.9	5943.9	5730.2	5523.7	5460.6	5235.3	5383.7	5736.4	6831.5	8019.3	6932.6
50°	6200.8	6122.8	5944.9	5758.6	5709.0	5497.5	5737.5	6156.6	7291.6	8636.2	7361.1
52.5°	6349.3	6265.0	6032.3	5929.1	5914.4	5782.7	6173.5	6636.8	7751.8	9181.7	7774.9
55°	6507.2	6413.5	6116.6	6023.9	6091.3	6102.8	6690.4	7181.0	8238.2	9713.4	8165.6
57.5°	6689.4	6570.4	6197.7	6104.0	6264.0	6477.7	7284.3	7745.5	8716.3	10206.2	8513.0
60°	6861.0	6741.0	6353.5	6231.4	6450.3	6912.6	7965.6	8428.9	9257.5	10645.2	8841.5
62.5°	6894.7	6795.7	6477.7	6476.7	6703.1	7420.1	8772.1	9118.5	9730.3	11079.1	9136.4
65°	6311.3	6249.2	6060.7	6467.2	7065.2	8150.9	9670.3	10000.9	10331.5	11458.2	9395.5
67.5°	4803.6	4812.0	4798.2	5582.8	6772.6	9200.6	10970.7	10945.4	11073.8	11883.5	9693.4
70°	2196.5	2246.0	2568.1	3853.8	5425.8	9321.8	13120.7	12793.3	12005.7	12434.3	9951.4
72.5°	1186.6	1224.6	1356.2	1866.8	3262.1	8287.7	14727.6	14960.3	13245.0	12804.9	9668.1
75°	870.7	891.9	983.5	1186.6	1369.9	6159.7	14151.6	15345.7	13399.8	11940.4	8348.8
77.5°	651.8	661.2	736.1	940.2	701.3	3247.3	11307.6	12709.1	11470.8	9810.3	6167.1
80°	472.7	483.3	539.2	705.5	491.7	1187.8	7764.5	8920.6	7856.0	6253.4	3073.6
82.5°	326.5	330.7	354.9	480.1	343.3	461.1	4405.6	5231.1	4385.6	2194.3	829.7
85°	196.9	202.1	212.7	280.1	194.7	219.0	1901.6	1966.9	1310.9	524.4	258.0
87.5°	81.1	86.3	94.8	118.0	76.9	61.1	313.8	393.8	245.4	153.8	80.1
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: P964683

CATALOG NUMBER: NAV-SB3C-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6	3592.6
2.5°	3598.0	3590.6	3570.6	3543.1	3517.9	3486.3	3472.6	3461.0	3450.5	3430.5	3421.0
5°	3620.0	3600.0	3546.3	3476.8	3397.9	3311.5	3227.3	3169.4	3119.9	3083.0	3052.4
7.5°	3653.7	3615.8	3517.9	3375.7	3194.6	3009.3	2841.9	2722.9	2633.4	2600.7	2543.9
10°	3688.5	3643.2	3472.6	3222.0	2909.3	2623.9	2401.8	2279.6	2208.1	2184.9	2149.0
12.5°	3729.6	3663.2	3402.1	3008.3	2590.3	2277.5	2083.8	2012.2	1975.3	1962.7	1965.8
15°	3789.5	3680.1	3295.7	2740.8	2286.0	2024.8	1899.5	1850.0	1831.1	1830.0	1834.2
17.5°	3834.8	3683.2	3130.5	2454.5	2052.2	1872.2	1768.9	1750.0	1762.6	1781.6	1788.9
20°	3885.4	3654.7	2913.5	2193.3	1887.9	1738.4	1695.2	1707.9	1738.4	1765.8	1775.3
22.5°	3921.1	3603.2	2651.4	1990.0	1745.8	1661.5	1659.5	1685.8	1702.6	1716.3	1723.6
25°	3952.8	3515.7	2373.4	1819.5	1628.9	1615.2	1638.4	1630.0	1618.4	1630.0	1637.3
27.5°	3976.0	3377.9	2124.8	1669.9	1546.8	1583.6	1570.0	1551.0	1549.9	1556.3	1566.8
30°	3968.6	3193.6	1920.5	1527.9	1488.9	1524.7	1492.0	1488.9	1485.7	1488.9	1500.5
32.5°	3968.6	2984.1	1763.7	1429.9	1452.0	1438.3	1435.2	1427.8	1415.1	1414.1	1427.8
35°	3990.6	2774.5	1628.9	1377.3	1421.5	1388.9	1390.9	1373.1	1346.7	1334.0	1346.7
37.5°	4035.9	2606.1	1495.2	1352.0	1367.8	1366.7	1358.3	1327.8	1281.5	1241.4	1255.1
40°	4145.4	2556.6	1403.5	1340.4	1342.5	1355.2	1333.0	1274.1	1168.8	1103.5	1111.9
42.5°	4317.1	2639.8	1383.5	1312.0	1325.6	1338.3	1295.1	1158.2	1083.5	1044.5	1044.5
45°	4535.0	2785.0	1426.7	1270.9	1285.7	1307.8	1179.3	1114.0	1080.4	1081.4	1086.6
47.5°	4810.9	2937.8	1506.7	1235.1	1227.7	1240.4	1102.4	1062.4	1016.1	1027.7	1057.2
50°	5129.9	3092.5	1582.6	1186.6	1163.5	1122.5	1053.0	1015.1	956.1	928.6	936.0
52.5°	5475.3	3242.0	1613.1	1127.7	1094.0	1046.6	1019.3	972.9	901.3	856.1	855.0
55°	5802.8	3377.9	1579.4	1057.2	1024.5	987.7	983.5	955.0	878.1	815.0	815.0
57.5°	6112.4	3491.6	1495.2	985.5	954.0	931.8	960.3	946.6	849.7	768.6	764.4
60°	6374.6	3569.5	1373.1	912.9	890.8	879.2	922.4	918.2	809.7	719.1	716.0
62.5°	6583.1	3600.0	1238.3	843.4	838.1	817.1	869.7	869.7	759.2	670.8	667.6
65°	6746.2	3570.6	1101.4	775.0	785.5	753.9	805.5	799.2	705.5	627.5	623.3
67.5°	6890.5	3473.6	949.8	707.6	731.7	691.8	738.1	723.3	646.5	584.4	580.2
70°	6954.7	3248.3	777.1	640.2	669.6	630.7	670.8	643.4	580.2	538.0	529.6
72.5°	6438.7	2699.7	611.7	569.7	594.9	563.3	598.1	566.5	508.6	489.6	473.9
75°	5326.8	2025.9	470.7	492.8	511.8	487.5	510.7	487.5	434.9	448.5	409.6
77.5°	3868.6	1367.8	360.1	411.7	420.1	407.5	427.5	401.2	353.8	350.7	334.9
80°	1923.7	801.2	282.2	325.3	322.2	313.8	336.9	324.3	284.3	301.1	298.0
82.5°	557.0	343.3	205.3	228.5	222.2	224.3	241.1	247.4	370.6	367.5	375.9
85°	174.8	134.8	123.2	127.4	121.1	124.2	142.2	282.2	261.2	152.7	165.3
87.5°	45.3	46.3	30.5	32.6	33.7	40.0	45.3	171.6	82.1	53.7	56.9
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)